

RST[®]

Pluggable electrical installation
with highest IP rating (IP6X)

Catalog 2016





**contacts
are
green.**

Pluggable connections

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RST® MINI

RST® CLASSIC

Compact/multi-
distribution units

RST® POWER

i

The idea of pluggable installation

As easy as brilliant

► Conventional installation



Work steps:

Power distribution:

- Cut the cable to length
- Strip the cable sheath
- Insert the cable into the junction box
- Strip the wire insulation
- Connect the individual wires
- Close the junction box

Luminaire installation:

- Open the luminaire
- Cut the cable to length
- Insert the wire into the luminaire
- Strip the wire insulation
- Connect the individual wires
- Close the luminaire



The *gesis*[®]- installation philosophy:

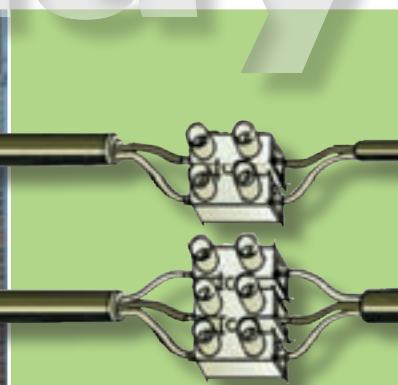
The idea is as easy as it is brilliant.

An extensive network of components of electrical connection technology, pre-assembled and most carefully tested, enables a consistently pluggable solution from the distribution board to each point of demand.

This saves time and reduces costs! A great number of renowned manufacturers have recognized this positive trend and, as system partners, already offer their components with pluggable *gesis*[®] connectors.

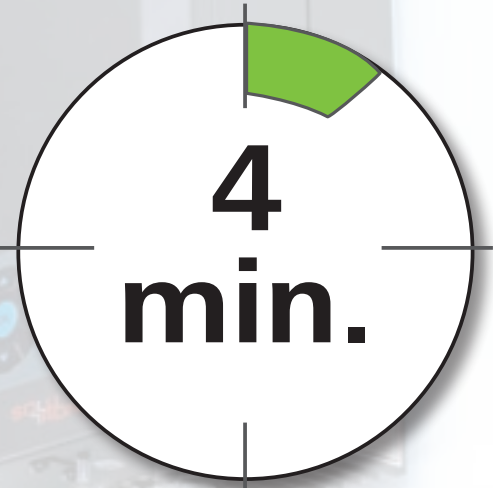
The system's fields of application are as versatile as the system itself. In short: wherever electrical power or signals need to be distributed, *gesis*[®] has set a standard.

Yesterday



SOL
PLUS

▶ Pluggable installation from Wieland

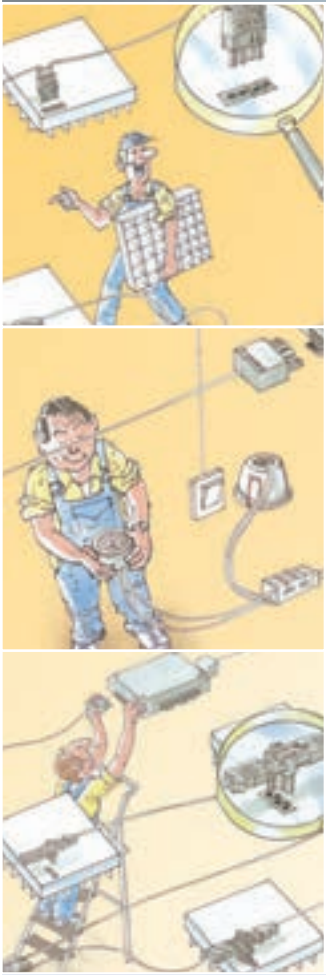


Additional advantages:

- Touch-safe
- Straightforward cable layout
- Simple replacement of devices
- Easy expansions or modifications
- Re-usable
- Mechanical codings
- Integrated locking device and strain relief

Work steps:

- Attach the luminaire
- plug & play



plug & play



Electrical installation with a system

A concept for all situations

Wieland, as the world market leader in the field of pluggable electrical installation, provides a consistently pluggable installation system: complex installations from the distribution board to each point of demand can be implemented with only four base components.

gesis®

IP20

- 1** Connector (female + male) for the supply into the connector system



INCOMING
SUPPLY

– interface between conventional and pluggable installation

- 2** Distribution blocks for power or signal distribution within the network



DISTRIBUTION

- 3** Pre-assembled cables for routing or supply of electrical power or signals



ROUTING

- 4** Device connections are directly integrated into the end devices and function as the interface to the connector system



DEVICE CONNECTION

indoor

Transfer of the successful **gesis®** installation philosophy ...



RST®

IP66 / 68 (3m; 2h) / 69K

Unique to the market thus far, Wieland transferred its successful *gesis®* installation philosophy to new outdoor applications and with it set new standards.

INCOMING SUPPLY



DISTRIBUTION



ROUTING



DEVICE CONNECTION



Degree of protection achieved:

IP65	Jet water
IP66	Powerful jet water
IP67	Temporary immersion
IP68	Lasting immersion (3m; 2h)
IP69K	High-pressure water jets according to DIN 400 50

outdoor

... in areas with increased protection requirements



In many applications, electrical devices and systems must work safely under difficult environmental conditions for many years. For a reliable function, the ingress of water or foreign particles (such as dust, oil, and soot) into production systems, parking garages or outer premises must be avoided. Within the scope of the specified degree of protection the **RST®** system even withstands unplanned immersion.

The system is not designed for permanent operation under water.

Overview of the fields of application

Power everywhere – safe and quick!

POWER CONNECTION
FOR ELECTRICAL
DEVICES



CONSTRUCTION
POWER SYSTEMS



OUTDOOR
LIGHTING



SYSTEM
ENGINEERING



SOLAR TECHNOLOGY



EVENT TECHNOLOGY



OBJECT AND SHIP BUILDING



Complete system for industrial use

Connecting quickly and safely

SYSTEM ENGINEERING

The pluggable electrical installation also for industrial use

■ The challenge:

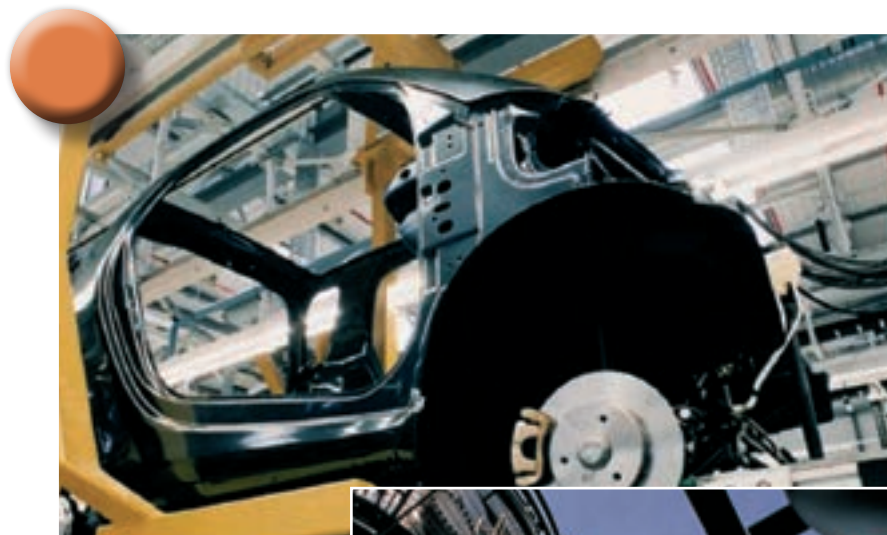
Whether individual applications or complex systems – the tasks are the same: electrical consumer devices must be connected quickly and safely.

Conventional installations do not meet these requirements. Cutting the cables to length, stripping the cable sheath and wire insulation, and finally connecting the components, are not only time-consuming operations, but frequently also cause errors and result in reworking. Cooperation of different trades (mechanical and electrical installation) during the setup of a system impedes the continuous progress of operations. This does not just apply to initial installations.

For expansions, regular servicing or replacement of defective devices, the same installation steps recur over and over again.

Possible applications:

- Motor connection (3~)
- Power distribution 250/400 V ~
- Power supply up to 50 V, bus
- Voltage supply 24 V, AS-i
- Workstation illumination
- Painting checks



■ The solution:

As a complete installation system, **RST**® provides definite time savings during installation. The components are pre-assembled in the factory and simply plugged together in the field. Troublesome cutting to length, stripping of sheath and insulation, and connecting is now a matter of the past. Operational downtimes are thus clearly reduced. In the case of defective devices or regular servicing, the consumer devices can be disconnected from the network quickly. As an additional advantage the installer does not have to open the device for completion of the electrical connection, which means that incorrect assembly especially of water-protected devices can be excluded.



Pre-assembly in a separate location:

The **RST**® installation system enables completely new possibilities. Entire system sections can be pre-assembled and tested independent of the location of operation. The individual modules are simply plugged together on site.



Cost reductions:

Connections in system sections are frequently over-dimensioned. This was not least due to a lack of alternatives. But this is where a major savings potential is provided.

The **RST**® system counts on completely pre-assembled components which only have to be plugged in on site.

Making electrical devices pluggable

Device connectors function as an interface between the electrical consumer devices and the **RST**® installation system. The consumer device becomes pluggable through the integrated device connector and can therefore be incorporated into the installation system as required.

The device connectors have been equipped with standard threads (M16 and M25) and can therefore be replaced easily by conventional feed-through facilities.

RST® CLASSIC:

RST20i2 AS-i or 24V

RST20i3 Power with ⊕

RST20i4 Power with ⊕
AS-i and 24V

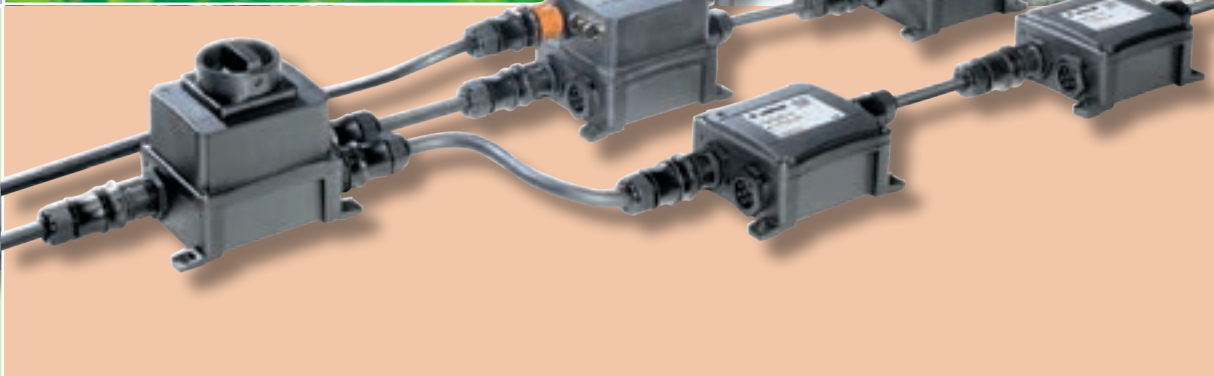
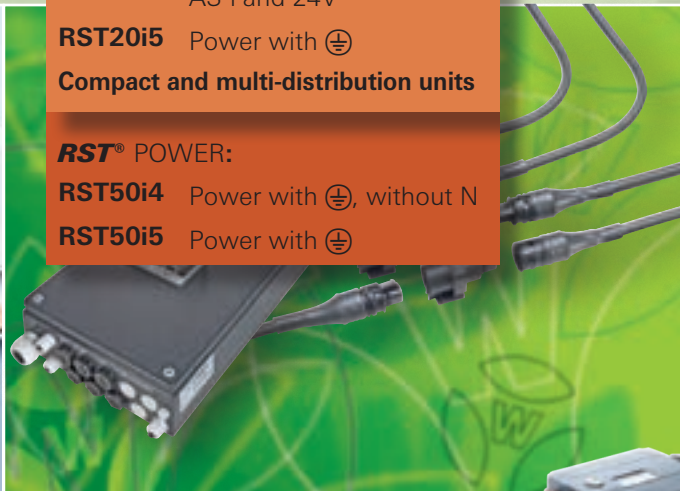
RST20i5 Power with ⊕

Compact and multi-distribution units

RST® POWER:

RST50i4 Power with ⊕, without N

RST50i5 Power with ⊕



Rapid mounting system

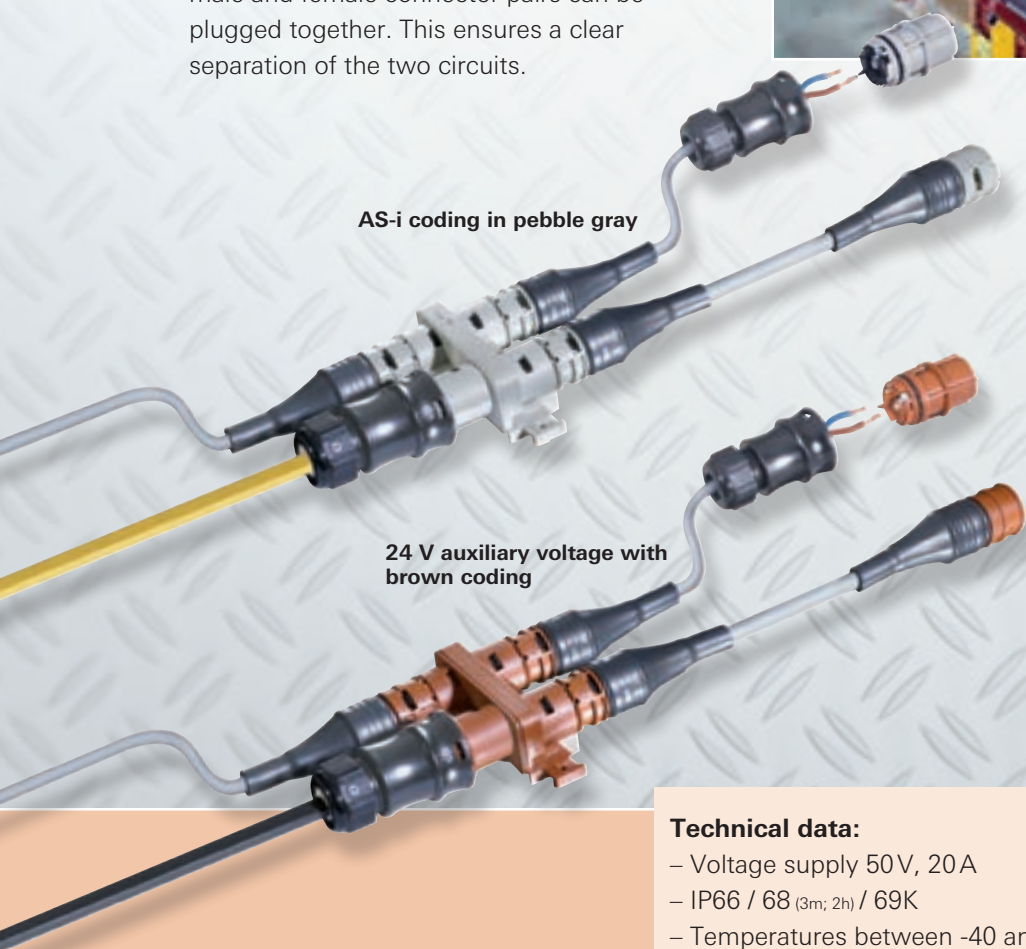
Flexible and modular AS Interface

SYSTEM ENGINEERING

Separate laying of AS-i and 24 V

AS-i and auxiliary power 24 V

An individual mechanical coding is provided for each circuit. Mechanically coded means that only the matching male and female connector pairs can be plugged together. This ensures a clear separation of the two circuits.



AS-i coding in pebble gray

24 V auxiliary voltage with brown coding

Four basic components for a consistent installation:

- Connectors can be pre-assembled on site and are available either for connection of a round cable or of the AS-i profile cable.
- Distribution blocks enable distribution of electrical power and signals throughout the network.
- Pre-assembled cables are available in various lengths and designs and are used for the routing and supply of auxiliary power / signals.
- Device connections are directly integrated into the end devices and function as the interface to the connector system.

Technical data:

- Voltage supply 50V, 20A
- IP66 / 68 (3m, 2h) / 69K
- Temperatures between -40 and +100° C
- Screw connection 0.5 – 4.0 mm²



Common laying of AS-i and 24 V

AS-i and 24 V combined in one cable

Until now AS-i and 24 V have normally been laid separately, but can now be combined and installed in a 4-pole version, too.

The highest level of flexibility

The rapid mounting system provides the decisive advantage particularly for the increasingly modular design in function modules. Depending on the application you can switch between the low-cost round cable and the AS-i profile cable as required. Everything is pluggable - for the user, this means top flexibility and at the same time quick and reliable installation.

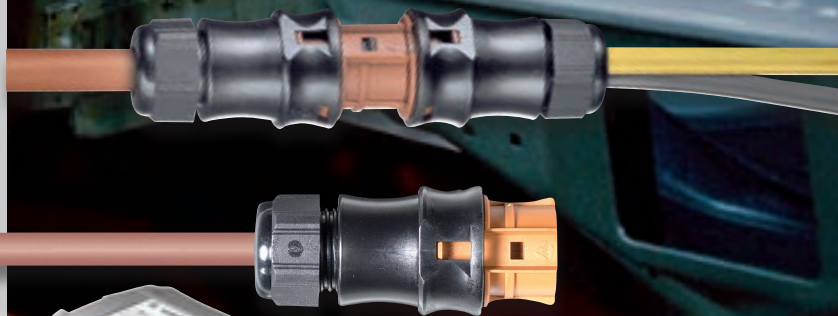


RST® CLASSIC:

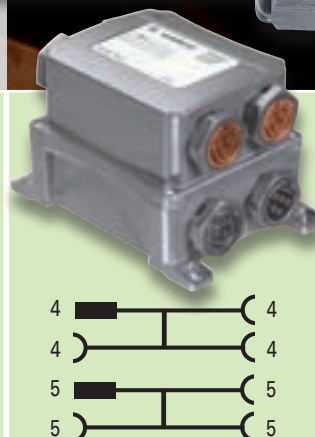
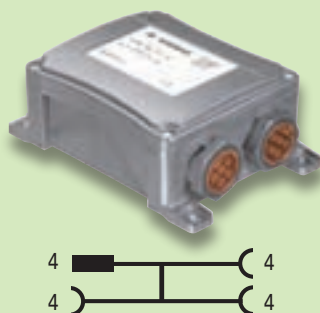
RST20i2 AS-i or 24V

RST20i4 AS-i and 24V

Compact and multi-distribution units



Distribution unit AS-i/24V



Distribution unit AS-i/24V and power



RST® CLASSIC

Pluggable electrical installation with ATEX, IECEx certification

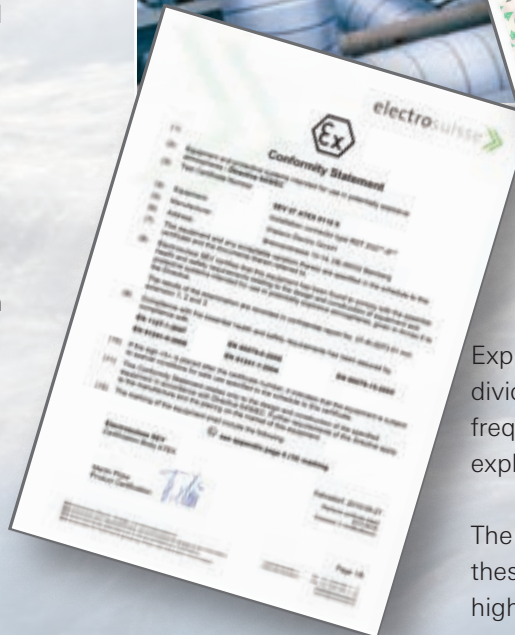
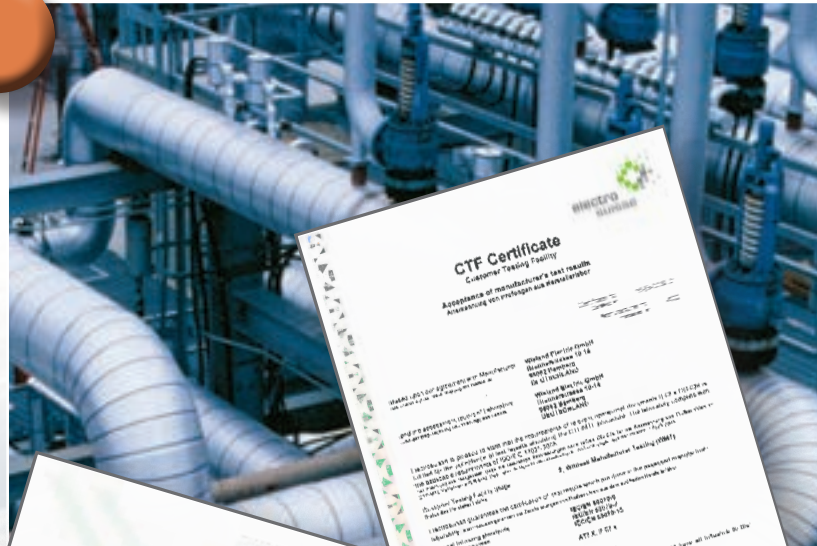
SYSTEM ENGINEERING

Used in different industries

Definition of explosive hazardous areas

When talking about explosive hazardous areas, everybody thinks of the chemical industry or mining. However, explosion protection is an important topic for many sectors of the processing industry. In some cases, even carpenter's workshops and industrial bakeries may be affected. Special explosion protection measures are necessary wherever a dangerously high concentration of gas/air or dust/air mixtures occurs.

Areas where a potentially explosive atmosphere is possible must be clearly identified as explosive hazardous areas.



Explosive hazardous areas are often divided into zones according to the frequency and duration of potentially explosive atmospheres.

The requirements for devices used in these areas are correspondingly high.

Coding:

Electrical connectors and equipment connections:

- CE1258 II 3G Ex ec IIC T6 Gc
- CE1258 II 3D Ex tc IIIC T85 °C Dc
- IECEx SEV 15.0024 X
- SEV 07ATEX0110X

With cable assembly H05VV-F:

- CE1258 II 3G Ex ec IIC T6 Gc
- CE1258 II 3D Ex tc IIIC T70 °C Dc
- IECEx SEV 15.0024 X
- SEV 07ATEX0110X

With cable assembly H07RN-F:

- CE1258 II 3G Ex ec IIC T6 Gc
- CE1258 II 3D Ex tc IIIC T60 °C Dc
- IECEx SEV 15.0024 X
- SEV 07ATEX0110X



Temperature classes

(max. device surface temperature)

- T1 450 °C
- T2 300 °C
- T3 200 °C
- T4 135 °C
- T5 100 °C
- T6 85 °C

Device group I (mining)	
Category M1	Category M2
Continuous, long, or frequent periods of exposure	Occasional periods of exposure
> Very high degree of safety	> High degree of safety

Device group II (other areas)					
Category 1		Category 2		Category 3	
Continuous, long or frequent periods of exposure		Occasional periods of exposure		Infrequent, short periods of exposure	
> Very high degree of safety		> High degree of safety		> Normal degree of safety	
Zone 0	Zone 20	Zone 1	Zone 21	Zone 2	Zone 22
Material group G	Material group D	Material group G	Material group D	Material group G	Material group D

Example:

Part number 96.031.4053.1
 ↓
 X6.031.4053.1

To obtain the part numbers for the components with ATEX certificate, the first digit of the regular part number „9“ must be replaced with an „X“. The minimum order quantity is 100 units per part.



ATEX sample kits
 3-pole: 99.663.0000.0
 5-pole: 99.664.0000.0

podis® flat cable power bus

Remote power distribution without stripping

SYSTEM
ENGINEERING

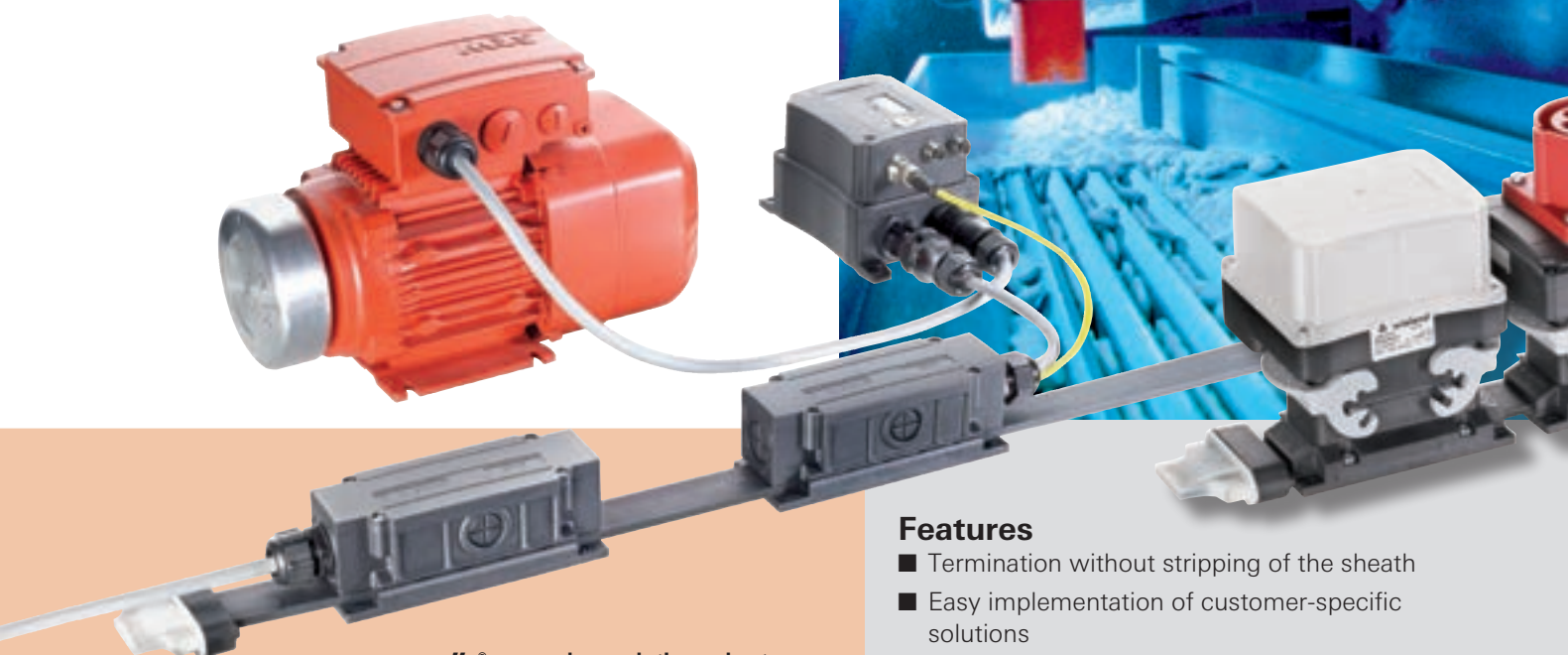
Power bus

The **podis®** power bus is the innovative solution for remote power distribution. The system comprises supply and distribution modules, maintenance switches, fixed and pluggable power branches, pre-assembled cable harnesses and functional motors, motor starter, LED-luminaires or service sockets.

The power (main and auxiliary power or AS-i) is distributed through an uncut 7 pole flat cable. The flat cable is tapped near the consumer device in any position required using connection modules with IDC technology. Branching and tapping to motor starters and frequency converters are implemented in a fixed or pluggable design.

Advantages of **podis®** – at a glance:

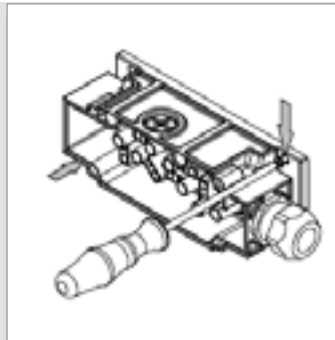
- 5x faster installation
- Fast start-up through error-free connectivity
- Modular system for various functions
 - Smallest remote motor starter in IP65 up to 1.5 kW
 - Robust LED lamps for extreme temperature range



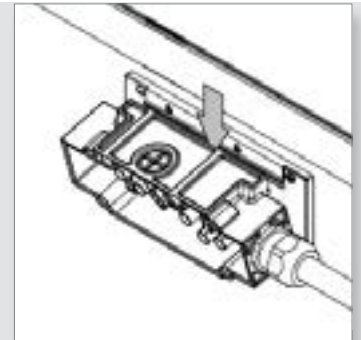
podis® power bus solutions shorten installation times, reduce production costs and increase flexibility during system expansions or later modifications to the planning.

Features

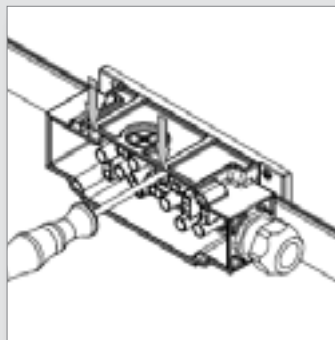
- Termination without stripping of the sheath
- Easy implementation of customer-specific solutions
 - Field distributors for SEW MOV/MOT control
 - Remote motor starters for airports and logistics applications
 - LED emergency lamps for wind power plants
- UL approval for international applications



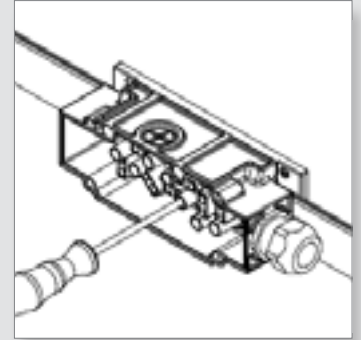
Wall mounting
Open the housing



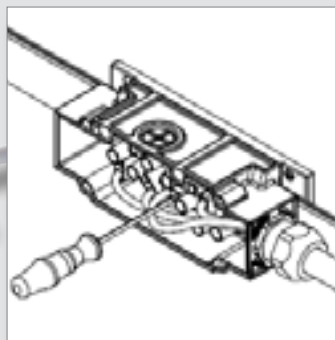
Insert coded flat cable



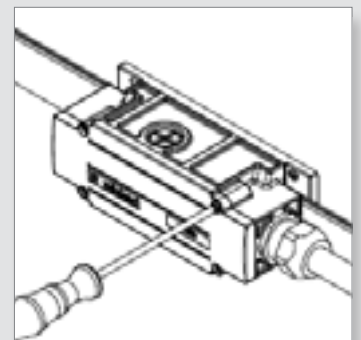
Close the top piece
Cable is sealed



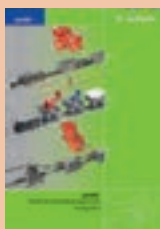
Screw in penetrating screws



Connect outgoing cable



Close housing cover – finished!



Further information
can be found in the
catalog „*podis*“
order no. 0830.1

The safe path into the grid

The AC Solar connector system

SOLAR TECHNOLOGY

■ The challenge:

The extraordinary benefits of a pluggable electrical installation have been restricted to the DC side of photovoltaic systems thus far. The connection on the grid side still had to be made in the time-consuming conventional way.

When several inverters are used within an array, the high installation effort becomes apparent.

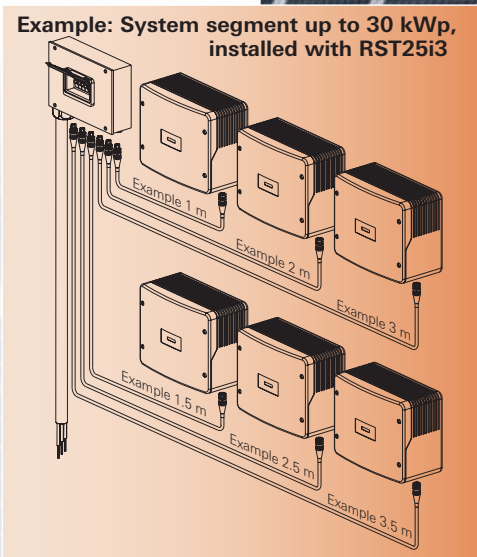
■ The solution:

With its new AC Solar round connector system, Wieland provides an optimum solution for the AC area. Pre-assembled components with an increased degree of protection ensure a quick and safe installation even under the most adverse conditions.

The system includes distribution panels which are delivered in a pre-assembled design, and cable assemblies for the connection between the inverters and the distribution panels.

The system is supplemented by connectors for assembly on site.

Leading inverter manufacturers pre-assemble their devices with the relevant connectors, the interface to the system, in their factories.

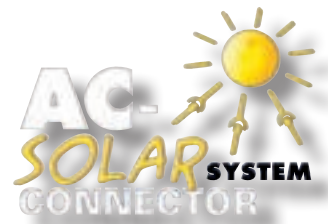


Other fields of application

- Emergency power supply through batteries (in buildings or systems)
- Transformation of on-board voltage (cars, trucks, railroad, caravans, boats)
- Metal working
- Power generation (fuel cell, wind power plants, photovoltaic systems)



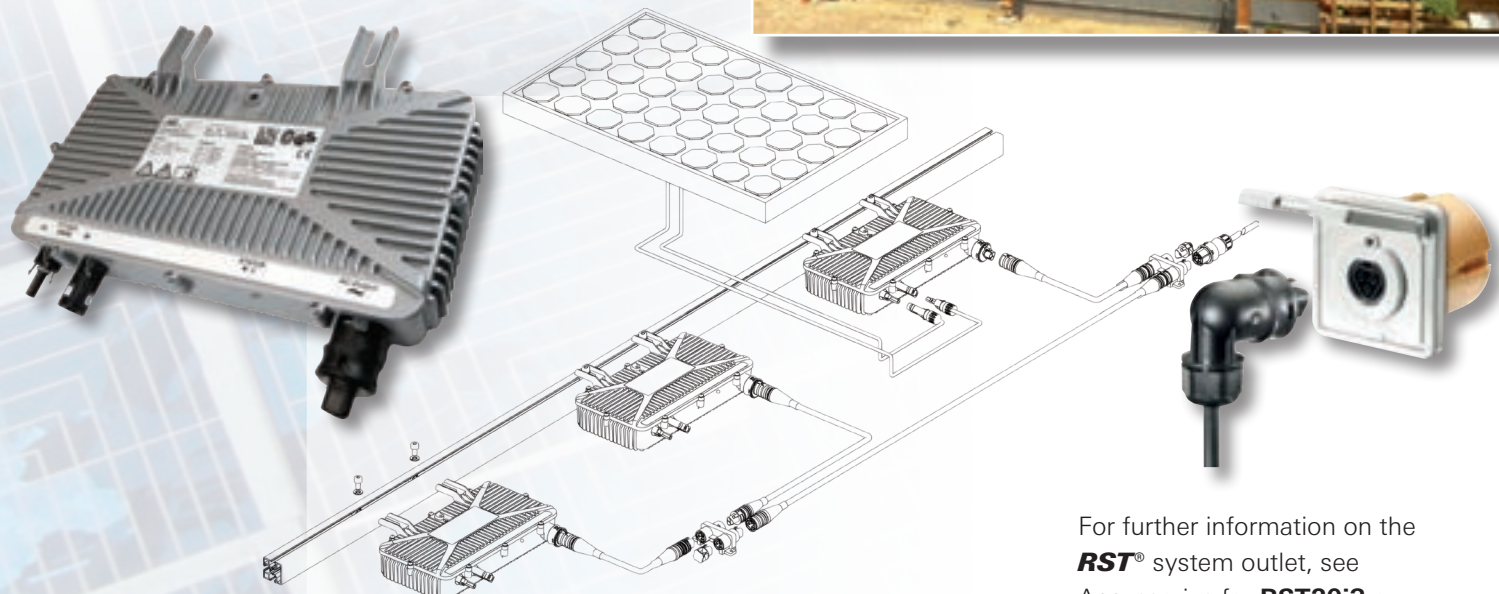
More and more manufacturers recognize this positive trend and offer their devices with **RST®** connectors.



■ Solar systems for the home grid

Mobile solar systems for private use are extremely popular. These systems consisting of solar modules and module inverters do not – as usual – feed the solar power into the power supply system as per the Renewable Energies Law (EEG), but provide the energy directly to the users in the own home grid.

The **RST**[®] installation system is set up in next to no time while fulfilling highest safety requirements. The new **RST**[®] system outlet serves as a defined interface between the home grid and the solar system.



For further information on the **RST**[®] system outlet, see Accessories for **RST20i3** or **RST20i5**.

RST[®] MINI:

RST16i3 Single-phase supply

RST16i5 Three-phase supply

RST[®] CLASSIC:

RST25i3 Single-phase supply
(up to 32A)

RST25i5 Three-phase supply

RST[®] system outlet

RST[®] POWER:

RST50i4 Three-phase supply
(without N)

RST50i5 Three-phase supply

The **RST**[®] MINI series is particularly suitable for confined installation spaces and therefore ideal for MICRO inverters.

The **RST**[®] CLASSIC series has the vastest portfolio and is designed for cross sections of up to 6.0 mm².

The **RST**[®] POWER series combines the best possible connection capabilities with the highest possible degree of compactness. The 4- and 5-pole IP 66/67/69K connectors and device connections are designed for 250/400V and a maximum current of 50A. The wire range includes cross sections up to 16 mm².

The flexible electrical installation Construction site supply during structural works

CONSTRUCTION POWER SYSTEMS

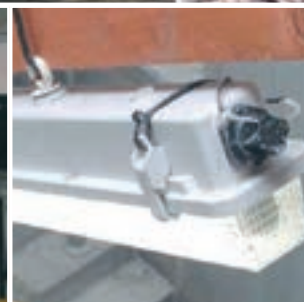
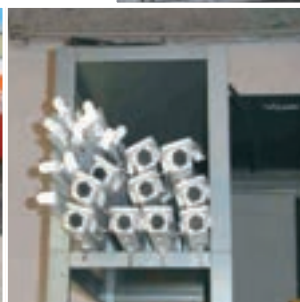
■ The challenge:

Time pressure in the project business is greater than ever: it is therefore even more important that all processes function and are attuned to one another without a problem.

The construction power systems make a major contribution, as they ensure the supply of electrical power during structural work. The requirements for such construction site supply systems are extremely high. On the one hand, they must withstand extreme conditions, and on the other hand, provide as much flexibility as possible.

■ The solution:

Only three base modules are required to implement even complex installations in no time and according to the requirements. The pre-assembled cables are at the core. They are ready for use in all required lengths and can be installed as required. Distribution components furthermore enable the distribution of power to the relevant location. And finally, there are the luminaires. They have been equipped with device connectors and can be integrated into the installation by simply plugging them in.





The benefits at a glance:

■ Low investment requirements

All connection cables have been pre-assembled and tested. With the available range of device connectors almost any standard luminaires can be made pluggable. Therefore, the luminaire manufacturers can easily integrate them into their products.

■ Low stock requirements

In contrast to the luminaires with a fixed connection cable, these luminaires can easily be stockpiled due to their pluggability. Transport becomes easier as well. The cables are stored separately. There are only a few different cable types, as the same lengths can be cascaded.

■ Easy handling

The luminaires can be assembled easily on the construction site, as the electrical connection is made after the

luminaires have been installed. Due to the compact dimensions of the pluggable components, the cables can be laid out much more flexibly, as small bore holes or knock-outs are no obstacle.

■ High operational safety

The power supply system at the construction site cannot be used by third parties (unrelated trades), as the construction machines are normally not equipped with **RST**® connectors. Its high degree of protection prevents any failure, even with short-term flooding of the connections.



RST® CLASSIC:

RST20i3 Power 3-pole

RST20i5 Power 5-pole

RST® POWER:

RST50i5 Power 5-pole

Pluggable solutions for event technology

Outdoor installations – no longer an adventure

EVENT TECHNOLOGY

■ **The challenge:**

Decorative illuminations during Christmas time or for other major events are extremely popular today. The possibilities for creating pleasant atmospheres or spotlighting objects are almost unlimited. But what happens behind the scenes? Standard outlets, carefully packed in PET bottles, or simply wrapped in a plastic bag – this is often common practice (not just in secrecy).

Apart from the fact that improvised solutions like that are questionable in view of safety technology, they are not aesthetically appealing at all. The fact is that there hasn't been an alternative up to now.

■ **The solution:**

The solution is a system which is suitable for outdoor use without additional protection measures: **RST®**.

Consistently pluggable, and with high protection degree **RST®** enables the outdoor connection of, for example, luminaires quickly and safely. Special attention was put on the design in order to make it match inconspicuously with the existing installation.

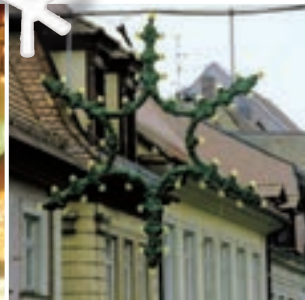


RST® MINI:

- RST16i3/2 2- and 3-pole
- RST16i5/4 4- and 5-pole

RST® CLASSIC:

- RST20i2 Protection class II
- RST20i3 Power with ⊕



Connectors for illumination cables:

Customary illumination cables can be integrated into the installation through special 2-pole connectors with the corresponding rectangular strain relief. This applies to applications in the professional as well as in the private sector.

The connectors are protected against accidental loosening; they can be unlatched with a tool only. This is a considerable plus in safety for places that are generally accessible. For protected areas (that are only accessible by experts), the connectors can be equipped with a manual disconnect facility for easy disassembly.

Post outlet:

The post outlet is simply integrated into existing posts and thus ensures the power supply. It even provides minimal dimensions and optimum weather protection. The post outlet consists of a splash-water-protected device connector which is mounted directly on the post, as well as a firmly connected cable in various lengths for internal wiring.

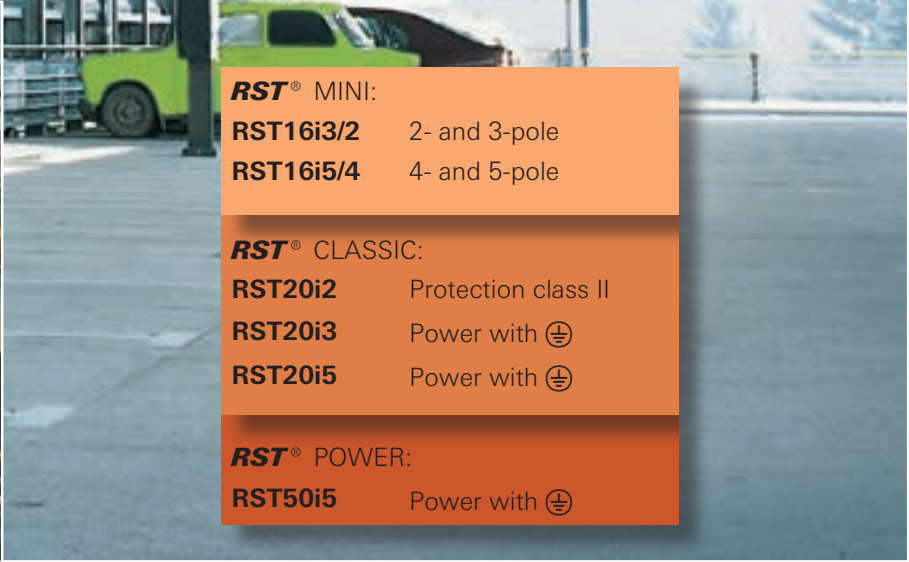
The cable is strain-relieved and the contacts are protected against condensation. The protective cover is removed and the decorative component is plugged in with the corresponding flexible light tube – plug & play!



Event technology (project lighting, festivals, leisure parks, fairground rides, exhibitions, concerts, light advertisements)

Post outlet
2-pole (L, N) and
3-pole (L, N, ⊕)





RST® MINI:

RST16i3/2 2- and 3-pole

RST16i5/4 4- and 5-pole

RST® CLASSIC:

RST20i2 Protection class II

RST20i3 Power with ⚡

RST20i5 Power with ⚡

RST® POWER:

RST50i5 Power with ⚡



For requirements with increased protection degree *RST*[®] installation systems provide safety

OBJECT AND SHIP BUILDING

The benefits at a glance:

■ **Installation up to date:**

The *RST*[®] installation system and its sophisticated concept mirror the state of the art in modern technology.

■ **Reduced construction times (initial installation):**

An installation with *RST*[®] reduces the costs not only for initial installations. Even short-term reorganization can be carried out without a problem. This is enhanced by the guarantee of continuous installation quality.

■ **Continuous operational cost savings:**

Maintenance costs and repair during operation are possible even under more difficult work conditions (architecture).

■ **Safe power distribution:**

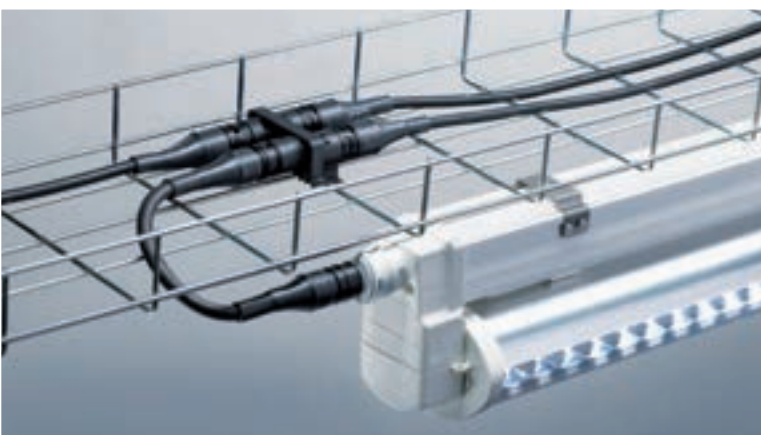
The new compact and multi-distribution units are the heart of pluggable electrical installation and can also be customized.

■ **The challenge:**

Whether in underground garages, greenhouses or in shipbuilding: electrical installations with increased requirements regarding the degree of protection can be found everywhere. Especially in these fields, it is extremely important that the electrical installation is carried out by an expert. But how does it work in practice? Difficult installation conditions and extreme time pressure often lead to errors, loss of protection and finally to the failure of the system.

■ **The solution:**

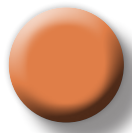
The idea is as easy as it is brilliant. An extensive network of components pre-assembled in the plant and most carefully tested enables a consistently pluggable solution from the distributor to the point of use. This saves time and reduces the costs!





plug & play in outdoor applications

Electrical installations using the “modular system”



OUTDOOR LIGHTING

■ The challenge:

Expert workmanship plays a major role particularly for electrical installations outdoors. Difficult installation conditions and high time pressure often cause errors, loss of the protection degree and finally failure of the system.

Unfortunately customers often send their complaints about such cases to the luminaire manufacturer and are left with a bad impression.

■ The solution:

As a complete installation system, **RST**[®] is optimally adapted to these increased requirements. It is very flexible in its application and has proven technology at its disposal. Luminaires can thus be delivered in a pre-assembled design. They only have to be plugged in on site. The connectors are also touch-safe when they have not yet been plugged in; they provide a locking device against accidental loosening.

The possibility of connecting almost all customary cable types (also underground cables), as well as the IP68 protection degree make the **RST**[®] connector a strong partner for outdoor lighting.

It is not possible to lay the components directly in the ground. In order to satisfy VDE 0100-520 the connections must be protected mechanically in addition and must be accessible for inspection, testing and maintenance.

Connectors:

For the various luminaire types, power connectors for 250V and low-voltage connectors for LED technology are available. These are mechanically coded and can therefore not be mismatched. This provides additional safety.



RST[®] MINI:

RST16i3/2 2- and 3-pole

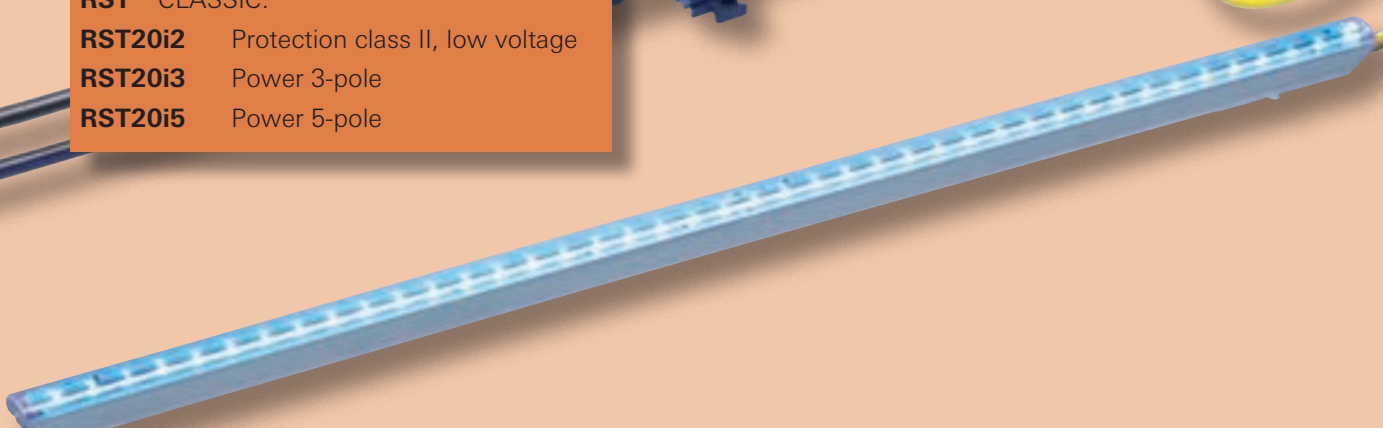
RST16i5/4 4- and 5-pole

RST[®] CLASSIC:

RST20i2 Protection class II, low voltage

RST20i3 Power 3-pole

RST20i5 Power 5-pole



Export-oriented solutions for all nations

International operations with **RST**[®] connectors

POWER CONNECTION FOR ELECTRICAL DEVICES



■ **The challenge:**

Particularly the export-oriented countries must offer their products in country-specific variations. The products frequently differ only by their power connectors. Stockage of country-specific product variations has, not least, an adverse impact on delivery times and warehouse costs.

■ **The solution:**

Power connections are made pluggable: one end is pre-assembled with the appropriate national power connector, while the other end always has the same **RST**[®] connector. Consequentially, the relevant end devices are equipped with **RST**[®] device connectors, independently of the country. Thus country-specific power connections are available to you. The connection set required for the target country is simply included in the delivery. This simplifies stockkeeping for particularly export-oriented products.



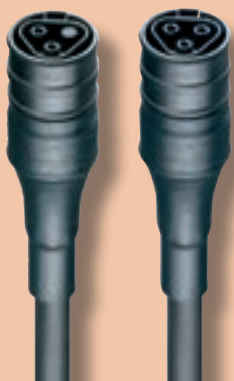
■ **RST**[®] power connectors:

The cables are pre-assembled with the desired power connector*) on the grid side. The **RST**[®] connector is molded to the device side. It is not only extremely compact, but is also protected against bending. The connection between the device and the pre-assembled cable is protected against accidental loosening through an integrated safe locking device. A manual disconnect facility is optionally available.





On request, we can also realize intermediate angles ranging between 0° and 90° in order to provide a solution for specific housing geometries.



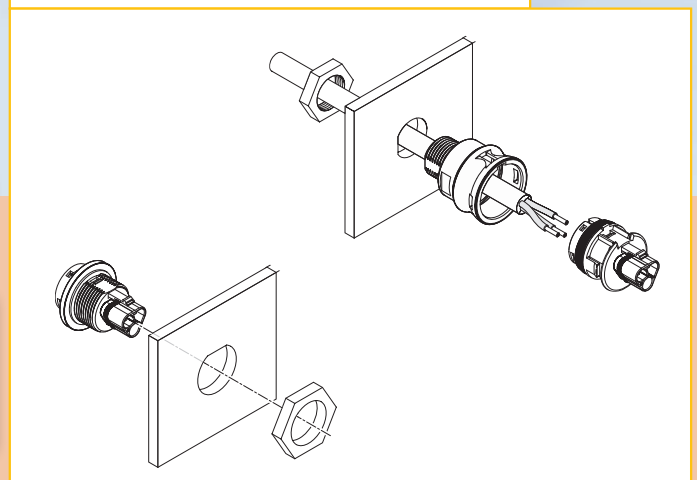
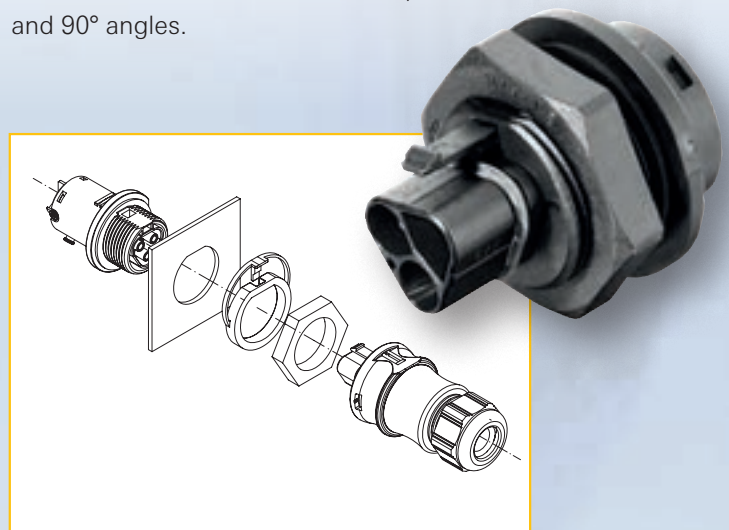
RST® CLASSIC:
RST20i2 Protection class II
RST20i3 Power with ⚡

DEVICE CONNECTORS

Device connectors are integrated into the relevant housing knock-outs and function as an outward interface.

There are basically two variations: the single-piece **M25 standard device connectors (one-piece)** are simply installed inside the housing.

The **modular device connectors (two-piece)** are available in M16, M20 and M25 variations as well as in 0°, 7° and 90° angles.





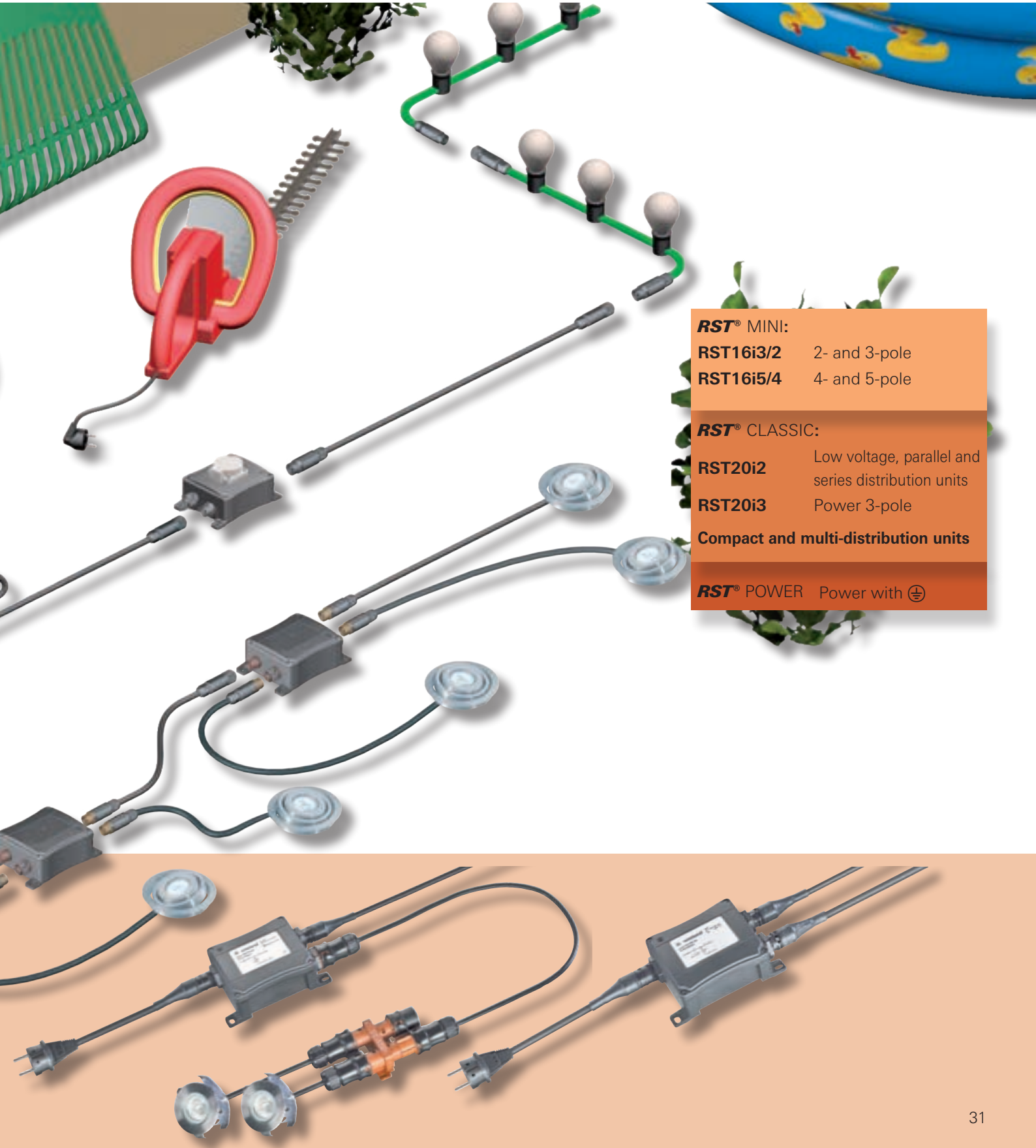
Consistently pluggable solutions for outdoor installations

- Wireless distribution units
- Current and voltage sources
- Series and parallel distribution
- Distribution units with integrated fine fuses
- Distribution units with integrated grounding outlet



plug & play in outdoor applications

Solutions for most demanding requirements



RST® MINI:

RST16i3/2 2- and 3-pole

RST16i5/4 4- and 5-pole

RST® CLASSIC:

RST20i2 Low voltage, parallel and series distribution units

RST20i3 Power 3-pole

Compact and multi-distribution units

RST® POWER Power with ⚡

Pluggable 3 D distribution units More than just distribution!

The *RST*® compact distribution unit – more than just distribution!

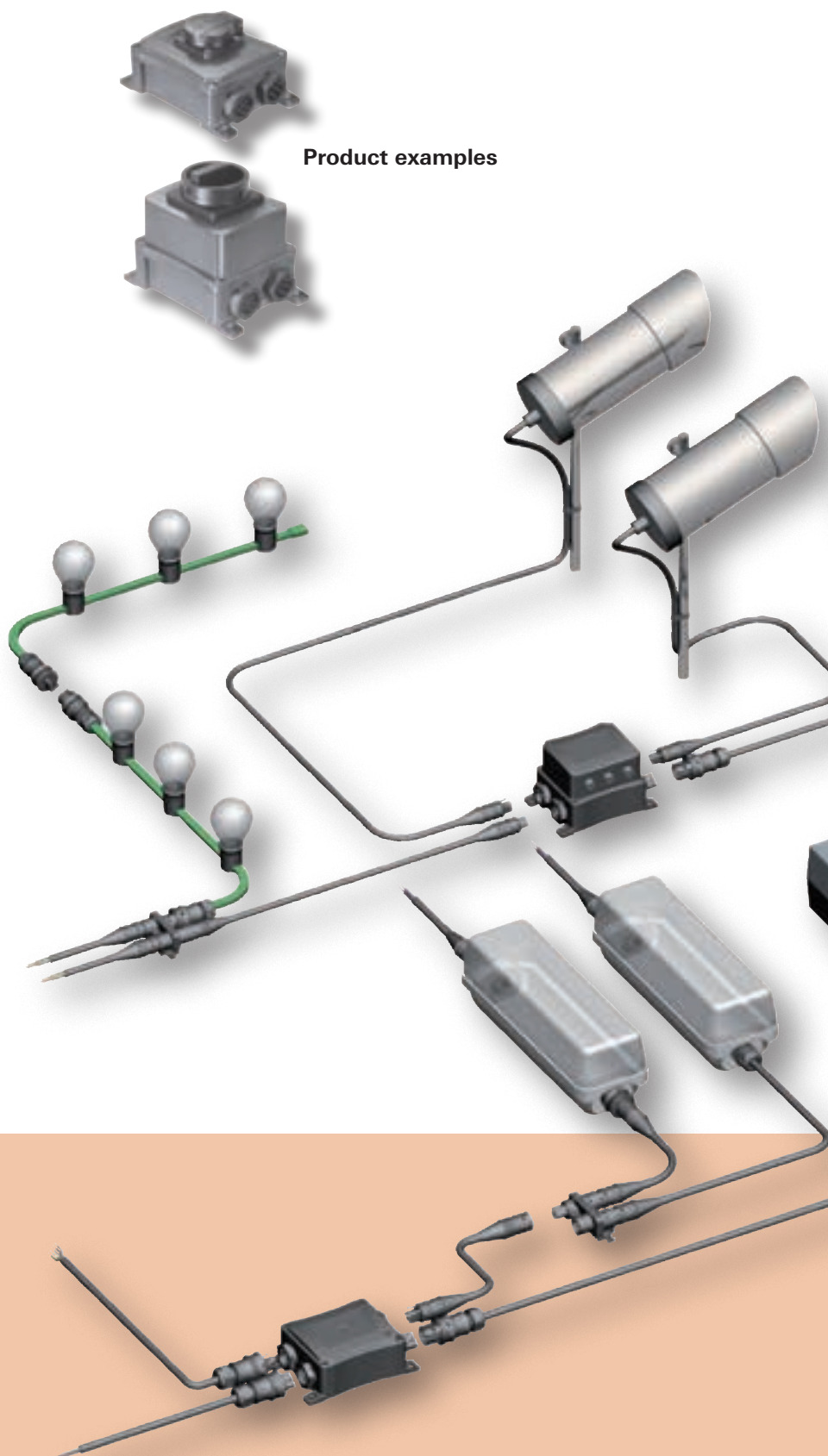
Installations differ from one another. This makes it even more important that the product range is oriented towards the application requirements. A clear separation of different circuits using mechanically coded connectors is as important as pre-assembled cables in various defined lengths.

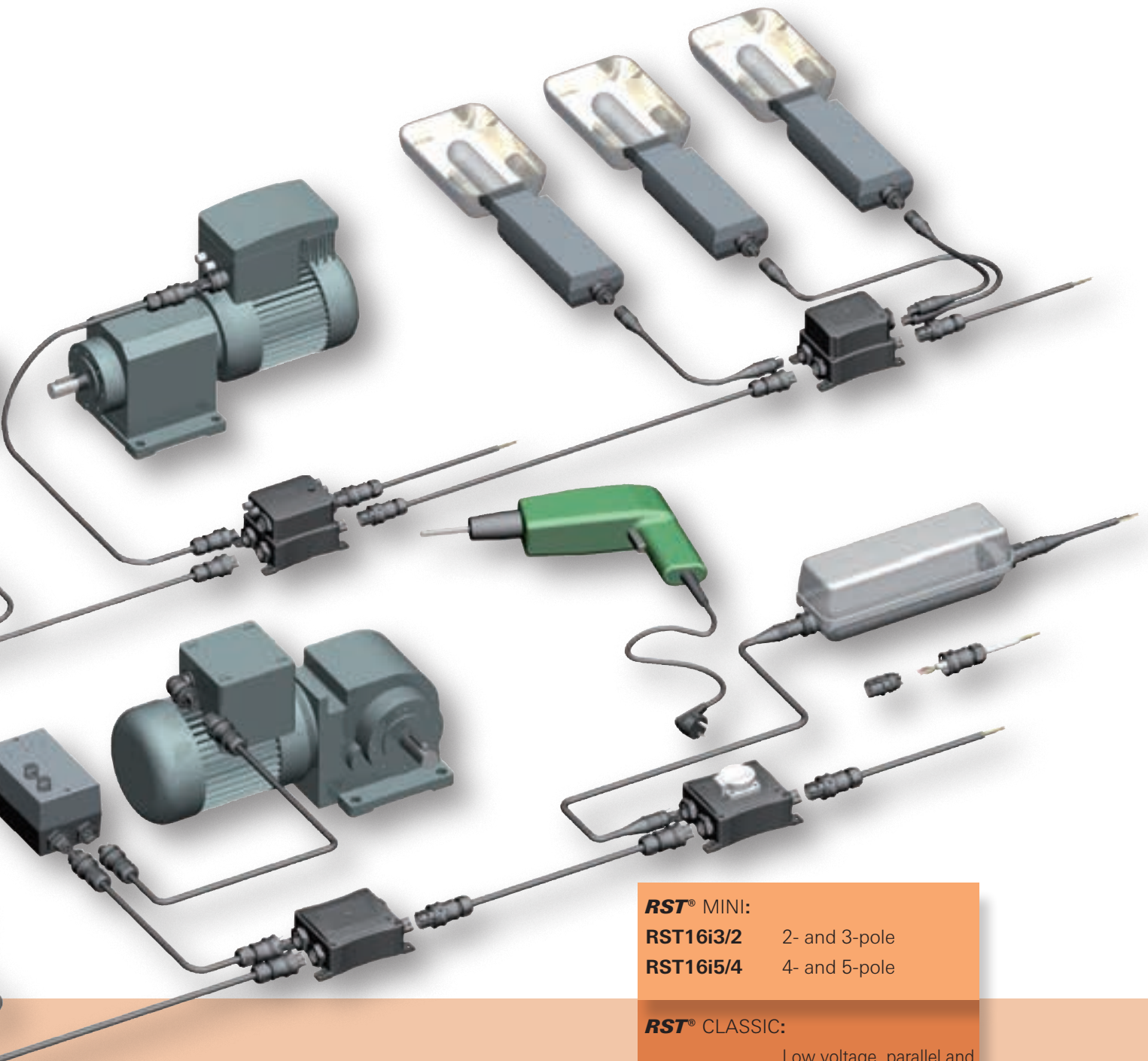
However, the pluggable distribution units play a major role in power distribution. In their simplest function, they merely have to provide branches in the required locations.

Practice shows, however, that the requirements may be much more complex.

Examples can be found in AC and DC wiring through distribution units with fine fuses up to boxes with integrated safety outlets or switches.

Product examples





RST® MINI:

- RST16i3/2** 2- and 3-pole
- RST16i5/4** 4- and 5-pole

RST® CLASSIC:

- RST20i2** Low voltage, parallel and series distribution units
- RST20i3** Power 3-pole
- Compact and multi-distribution units**

RST® POWER Power with \oplus

① Connectors

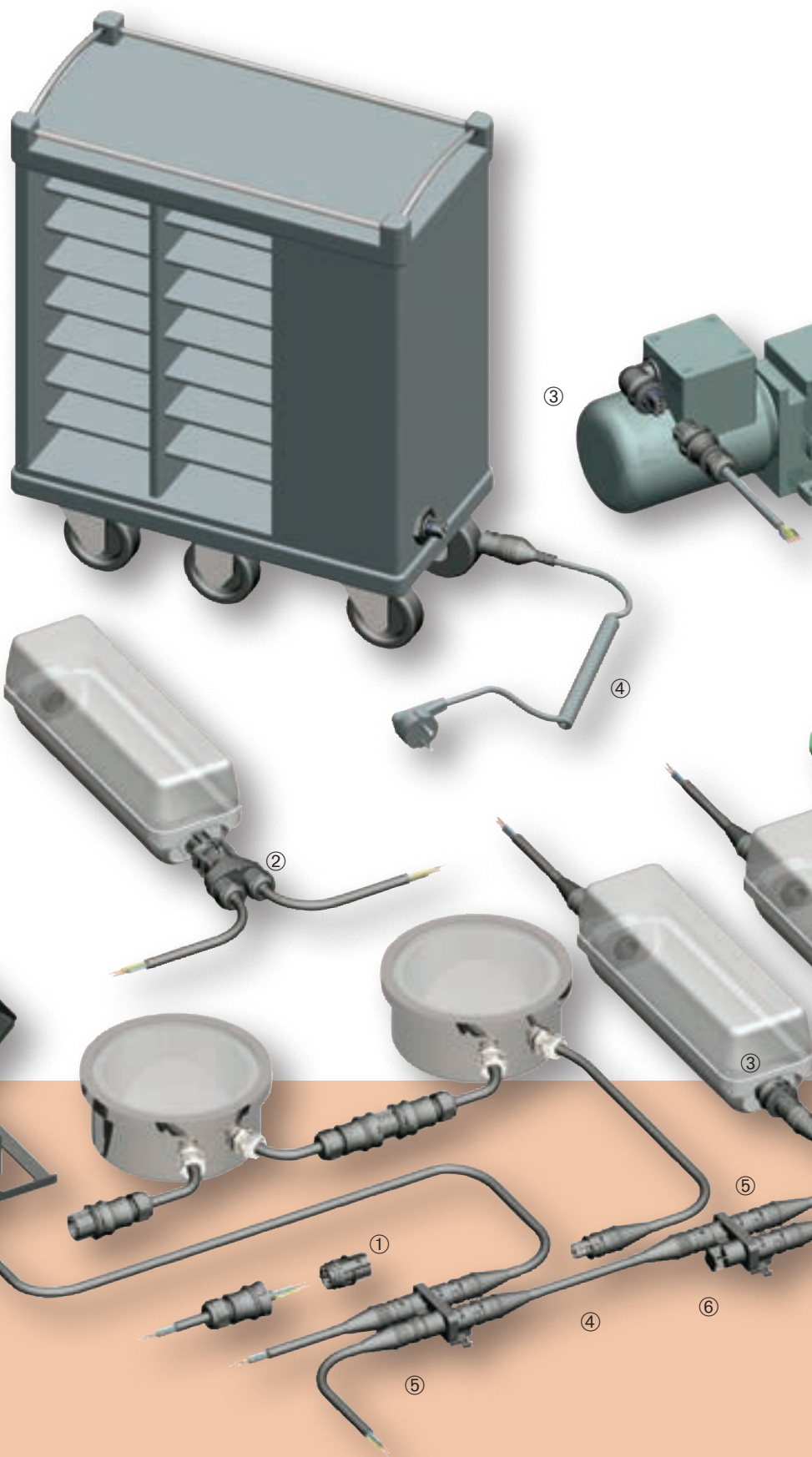
Connectors can be assembled on site. Among other functions they serve as an incoming supply for the **RST**[®] system. Connectors with male and female components are delivered complete with strain relief and enable the connection of all common cable types. A special version also enables the connection of illumination cables for decorative light chains. Depending on the requirements the connectors are available with spring clamp or screw technology.

② Connectors, Splitter connectors

Connectors can be pre-assembled on site and serve for the through-wiring of electrical consumer devices (luminaires). All connectors are delivered complete with strain relief and are compatible with all common cable types. Depending on the requirements the connectors are available with spring clamp or screw technology.

③ Device connectors

Device connections are integrated in corresponding knock-outs in the housing of devices. They are the device's interface to the **RST**[®] system. The devices can therefore be plugged in simply on site and integrated into the installation.



System description

Overview of the electrical installation *RST*[®]

Basically two variations are available: the M25 standard device connector as well as a modular version with M16 or M20 connection threads. An angled design completes the system.

④ Cable assemblies

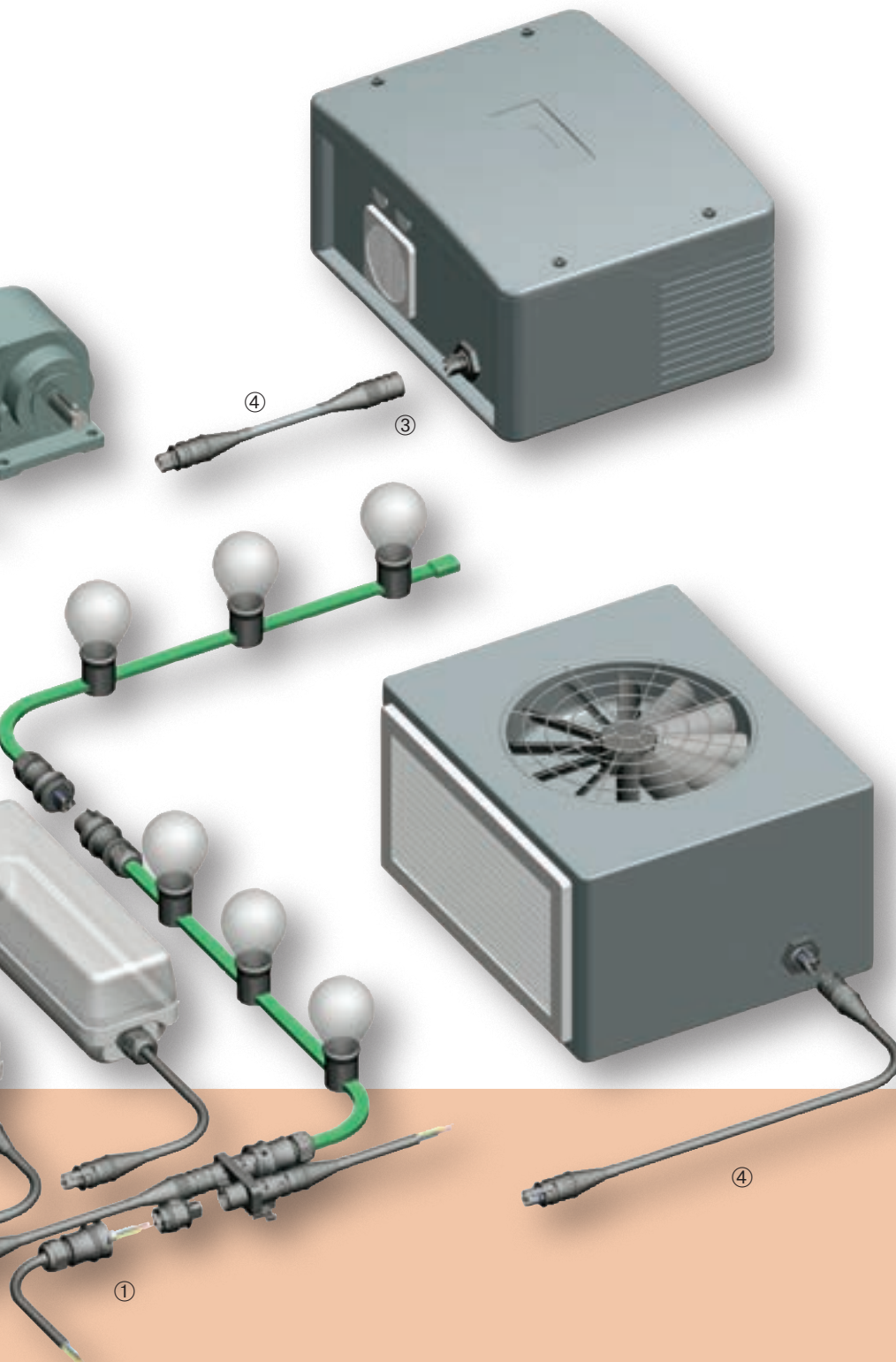
Electrical power is supplied by using cable assemblies. Three basic versions are distinguished: power connection cables provide the incoming supply of the *RST*[®] system. They have been prepared for a traditional connection or with a standard plug on the supply side and are pre-assembled with the required female connector on the outgoing side. Extension cables are pre-assembled with a female or male connector on the relevant cable ends, and serve as feed-through wiring. The connection cable is pre-assembled with a male connector and a free end for wiring to the consumer device.

⑤ Distribution blocks

The pre-assembled plug-in distribution blocks are incorporated in the installation and thus enable a tap-off to the consumer devices. The distribution block is available with or without mounting flanges.

⑥ End caps

They are used to safely cover unused contacts. The IP protection is therefore maintained when the device is unplugged.



Overview of the **RST®** product family

Pluggable in many dimensions

Since its market launch the **RST®** installation system has systematically grown with the needs of the market and now presents itself as a complete electrical installation system. A choice can be made between three series as required:

NEW

RST® MINI

Little connectors for extremely confined spaces

2- to 5-pole design,
250V/400V, 16A



RST® CLASSIC

All-rounders with the most comprehensive portfolio

2- to 5-pole design,
250/400V, 20 – 32A



RST® POWER

High-current connectors for large cross-sections

4- to 5-pole design,
250/400V, 50A



Also on our
You Tube channel



RST® MINI



RST® POWER

All installation connectors have one thing in common: They are innately fitter-friendly and adhere strictly to the system philosophy. Complex installations can be built flexibly, and consumers can simply be plugged into the installation. Mechanical codings within the product lines ensure a clear distinction between different circuits. This practically rules out incorrect connections.

The new **RST®** MINI connector series

Optimized for installation in confined spaces

The new **RST®** MINI series marks a continuation of the story of the **RST®** installation system's success and logically follows the trend towards compact designs.

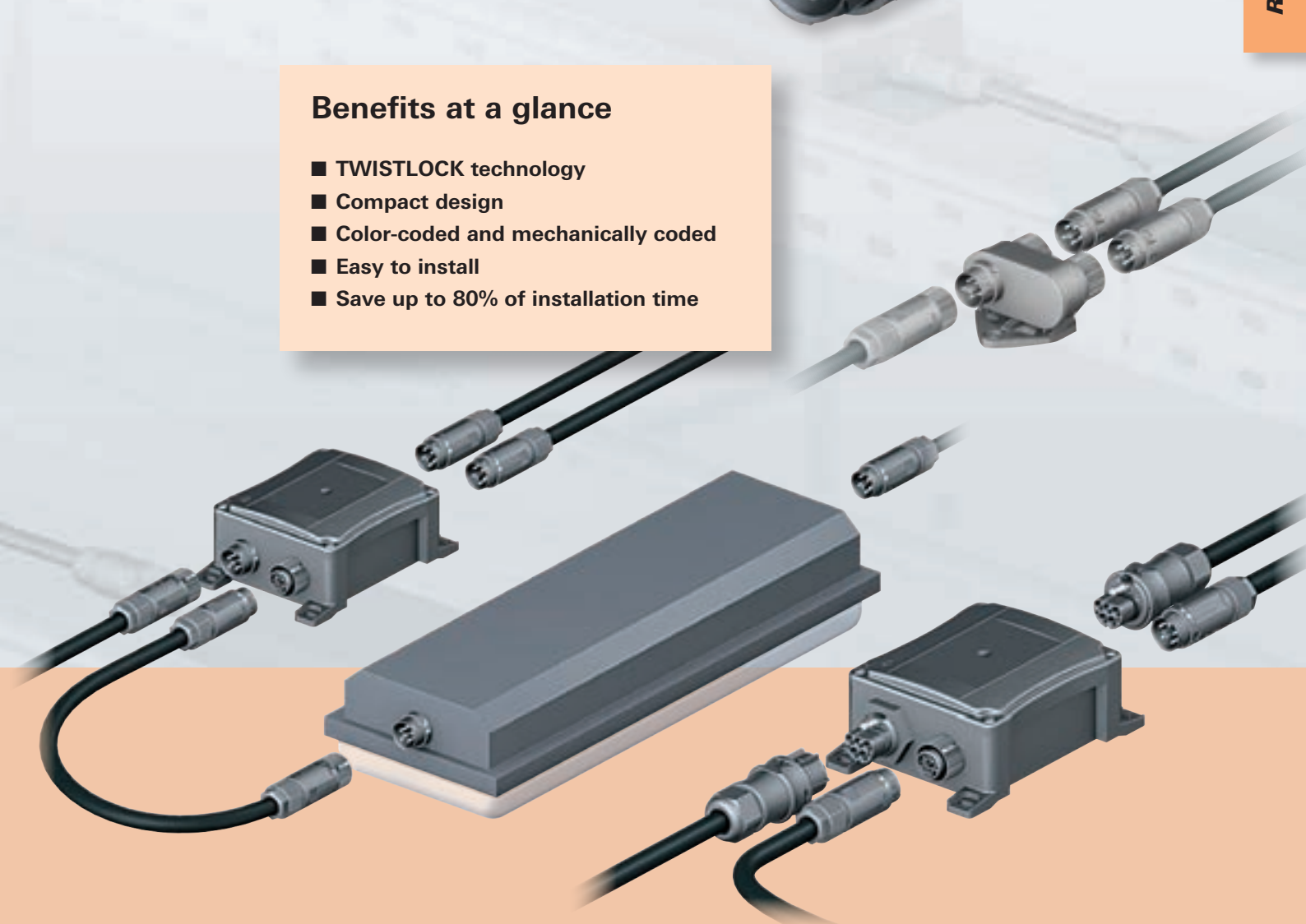
The 2- to 5-pole plug connectors and device connectors have been designed for 250/400V and 16A and are all available in the screw connection technology that electricians trust.

Customized distributors as well as pre-assembled cables round the system off perfectly and offer a huge range of different possible uses, not just in building automation or industry.



Benefits at a glance

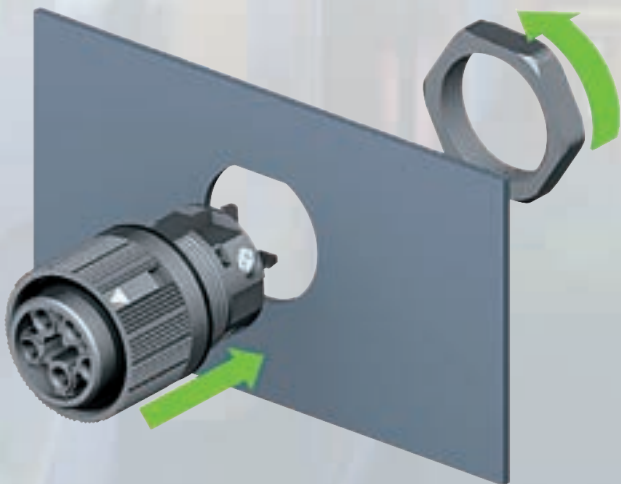
- TWISTLOCK technology
- Compact design
- Color-coded and mechanically coded
- Easy to install
- Save up to 80% of installation time



RST® MINI plug & play Simple and functional

Easy assembly

The housing of the connector has been designed in two parts and geared toward simple assembly right from the outset. The connector dispenses with the common technique of screwing individual parts and relies on an easy-to-use quick fastener.

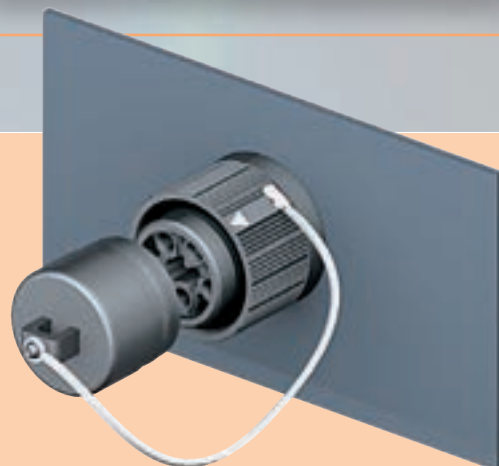


Retrofitting made easy

The device connectors have M20.2 (5-/4-pole) or M16 (3-/2-pole) threads. This means they can be directly integrated in M20 or M16 housing feed-throughs – taking the tolerances into account. It is therefore easy to switch from traditional cable glands to the convenient pluggable alternative. There is the option of using a flattened top on the thread of the device connector to fix it in position.

Safe and secure

Unused slots must be protected against moisture and dirt penetration. The end caps for unused slots are joined to the connector directly using a strap and are therefore protected against loss.



RST® MINI click & safe

The patented locking device

TWISTLOCK technology

With the smart TWISTLOCK locking mechanism, the connectors lock automatically when plugged together and give the user clear feedback on the correct end position. A slight rotation severs the connection easily.

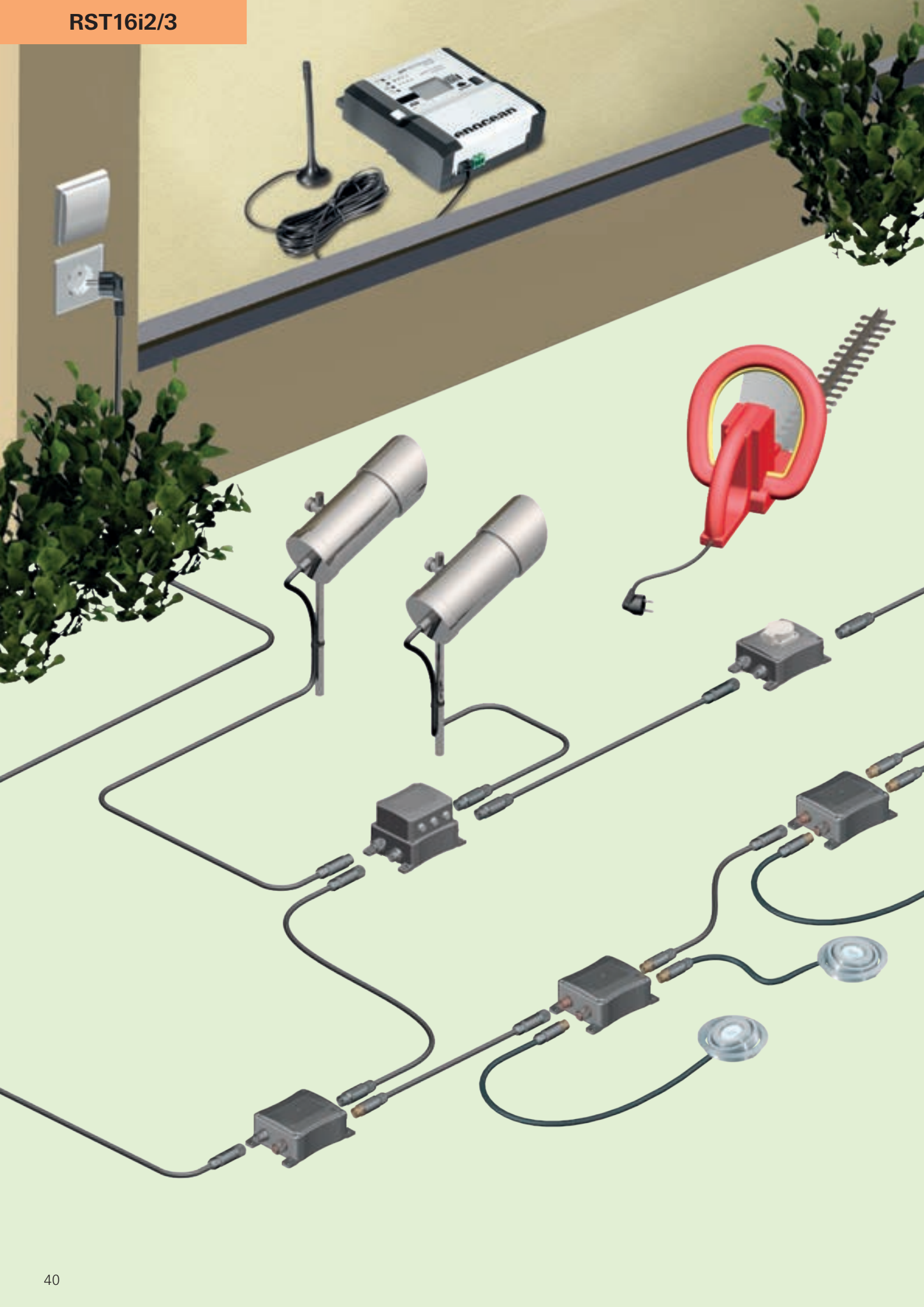
click & safe

Close

automatic locking mechanism

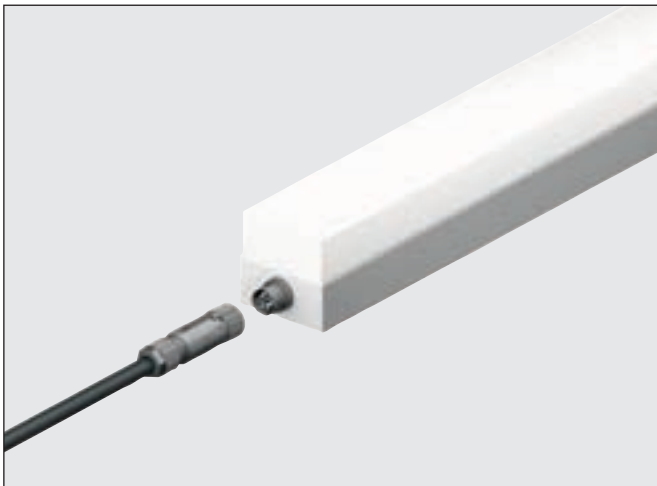
Open

RST® MINI



The RST16i2/3 product line – mains connection, lighting installation, DALI, DMX, applications in the extra-low voltage range (LED technology), loudspeaker applications

Application example



General

With the 2-/3-pole connectors, there are five available codings. These cover applications relating to the mains connection of electrical consumers, the connection of LED luminaires in the extra-low voltage range, and also the electrification of DALI, DMX, or loudspeaker systems. The main focus is the mains connection of electrical equipment with a compact design. The mechanical codings have the advantage that only associated pairs of male and female connectors can be connected, with the correct polarity ensured. This gives you the security of a clear distinction.

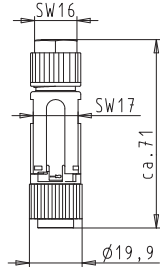
The connectors are also available in a 2-pole variant. This is based on the 3-pole housing, but with one pole not configured.

Coding

	Application	Power/SKII		250/400V with PE	Extra-low voltage	250/400V without PE	Dimming
	Mechanical coding, for example	L, N, PE		1, 2, PE	1, 2, 3	1, 2, 3	D1, D2, PE
Name	Description	black	light gray	green	signal brown	light blue	turquoise
Connectors		✓	✓	✓	✓	✓	✓
M16 device connections		✓	✓	✓	✓	✓	✓
Distribution units	RST® compact and multiple distribution unit	✓	✓	✓	✓	✓	✓
	Distribution block 1E/2A	✓	✓	✓	✓	✓	✓
	Individual distribution box	on request	on request	on request	on request	on request	on request
Cable assemblies	Device connection cable Male – free end	✓	✓	on request	on request	on request	on request
	Connection cable Female – free end	✓	✓	on request	on request	on request	on request
	Extension cable Female – male	✓	✓	on request	on request	on request	on request

Connectors, straight for cables Ø 5.0 – 9.5 mm²⁾

Female connector

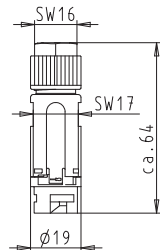


Rated values

Rated voltage	250/400V
Rated current	16A
Rated cross-section	0.25 to 1.5 mm ² (up to 1.0 mm ² suitable for ferrules)
Approvals	VDE, UL, CSA, LR, DNV/GL, RINA, BV being prepared

Application	Coding	Pole marking	Color	Part No.
with screw connection				
Power		L, N, PE	black light gray	46.031.4553.1 46.031.4553.0
SKII		L, N	black light gray	46.031.4554.1 46.031.4554.0
250/400V with PE		1, 2, PE	green	46.031.4555.7
250/400 V without PE		1, 2, 3	light blue	46.031.4553.9
250/400 V without PE ¹⁾		1, 2	light blue	46.031.4554.9
Dimming with PE		D1, D2, PE	turquoise	46.031.4550.6
Dimming ¹⁾		D1, D2	turquoise	46.031.4551.6
Extra-low voltage (50V~120V-)		1, 2, 3	signal brown	46.031.4550.4
Extra-low voltage ¹⁾ (50V~120V-)		1, 2	signal brown	46.031.4551.4

Male connector



Rated values

Rated voltage	250/400V
Rated current	16A
Rated cross-section	0.25 to 1.5 mm ² (up to 1.0 mm ² suitable for ferrules)
Approvals	VDE, UL, CSA, LR, DNV/GL, RINA, BV being prepared

Application	Coding	Pole marking	Color	Part No.
with screw connection				
Power		L, N, PE	black light gray	46.032.4553.1 46.032.4553.0
SKII		L, N	black light gray	46.032.4554.1 46.032.4554.0
250/400V with PE		1, 2, PE	green	46.032.4555.7
250/400 V without PE		1, 2, 3	light blue	46.032.4553.9
250/400 V without PE ¹⁾		1, 2	light blue	46.032.4554.9
Dimming with PE		D1, D2, PE	turquoise	46.032.4550.6
Dimming ¹⁾		D1, D2	turquoise	46.032.4551.6
Extra-low voltage (50V~120V-)		1, 2, 3	signal brown	46.032.4550.4
Extra-low voltage ¹⁾ (50V~120V-)		1, 2	signal brown	46.032.4551.4

¹⁾ One pole not configured

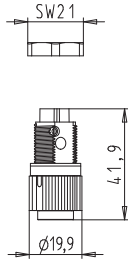
²⁾ Other diameters available upon request. Please note: Individual H07RN-F 1.5 cables can have a diameter of more than 9.5 mm.

M16 device connections straight

Female connector



For housing cut-out see
Technical Data



Rated values

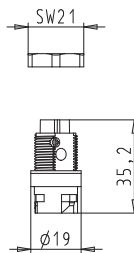
Rated voltage	250/400V
Rated current	16A
Rated cross-section	0.25 to 1.5 mm ² (up to 1.0 mm ² suitable for ferrules)
Approvals	VDE, UL, CSA, LR, DNV/GL, RINA, BV being prepared
Gehäuse-Wandstärken	up to 8 mm

Application	Coding	Pole marking	Color	Part No.
with screw connection				
Power		L, N, PE	black light gray	46.031.5053.1 46.031.5053.0
SKII		L, N	black light gray	46.031.5054.1 46.031.5054.0
250/400V with PE		1, 2, PE	green	46.031.5055.7
250/400 V without PE		1, 2, 3	light blue	46.031.5053.9
250/400 V without PE ¹⁾		1, 2	light blue	46.031.5054.9
Dimming with PE		D1, D2, PE	turquoise	46.031.5050.6
Dimming ¹⁾		D1, D2	turquoise	46.031.5051.6
Extra-low voltage (50V~120V-)		1, 2, 3	signal brown	46.031.5050.4
Extra-low voltage ¹⁾ (50V~120V-)		1, 2	signal brown	46.031.5051.4

Male connector



For housing cut-out see
Technical Data



Rated values

Rated voltage	250/400V
Rated current	16A
Rated cross-section	0.25 to 1.5 mm ² (up to 1.0 mm ² suitable for ferrules)
Approvals	VDE, UL, CSA, LR, DNV/GL, RINA, BV being prepared
Gehäuse-Wandstärken	up to 8 mm

Application	Coding	Pole marking	Color	Part No.
with screw connection				
Power		L, N, PE	black light gray	46.032.5053.1 46.032.5053.0
SKII		L, N	black light gray	46.032.5054.1 46.032.5054.0
250/400V with PE		1, 2, PE	green	46.032.5055.7
250/400 V without PE		1, 2, 3	light blue	46.032.5053.9
250/400 V without PE ¹⁾		1, 2	light blue	46.032.5054.9
Dimming with PE		D1, D2, PE	turquoise	46.032.5050.6
Dimming ¹⁾		D1, D2	turquoise	46.032.5051.6
Extra-low voltage (50V~120V-)		1, 2, 3	signal brown	46.032.5050.4
Extra-low voltage ¹⁾ (50V~120V-)		1, 2	signal brown	46.032.5051.4

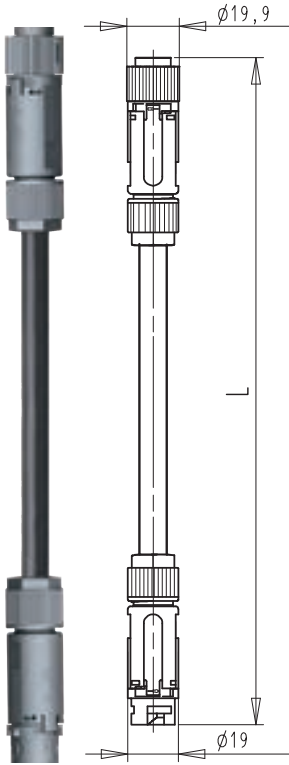
¹⁾ One pole not configured

Cable assemblies

1.5 mm²; 16 A

Rated values			Connection type of cable	
Wire ends	(open cable end)	ultrason. welded	cable gland	
Sheath strip length	(open cable end)	35 mm	Interlock	integrated
Insulation strip length	(open cable end)	9 mm	Color cable	black
			Color handle shell	black

Connection cables female – male



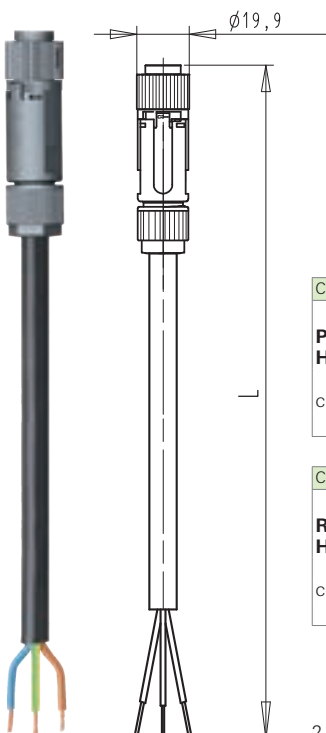
Power 250 V 3-pole 	Protection class II 2-pole 	Extra-low voltage 2-pole
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Cable	Length m	Part No.	Part No.	Part No.
PVC cable H05VV-F containing halogen	0.5	46.432.0500.1	46.422.0500.1	46.422.0502.4
	1	46.432.1000.1	46.422.1000.1	46.422.1002.4
	2	46.432.2000.1	46.422.2000.1	46.422.2002.4
	3	46.432.3000.1	46.422.3000.1	46.422.3002.4
	4	46.432.4000.1	46.422.4000.1	46.422.4002.4
5	46.432.5000.1	46.422.5000.1	46.422.5002.4	

Cable	Length m	Part No.	Part No.	Part No.
Rubber-sheathed cable H07RN-F containing halogen	0.5	46.432.0530.1	46.422.0530.1	46.422.0532.4
	1	46.432.1030.1	46.422.1030.1	46.422.1032.4
	2	46.432.2030.1	46.422.2030.1	46.422.2032.4
	3	46.432.3030.1	46.422.3030.1	46.422.3032.4
	4	46.432.4030.1	46.422.4030.1	46.422.4032.4
5	46.432.5030.1	46.422.5030.1	46.422.5032.4	

2-pole connectors – one pole is not configured.

Connection cables female – free end



Power 250 V 3-pole 	Protection class II 2-pole 	Extra-low voltage 2-pole
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Cable	Length m	Part No.	Part No.	Part No.
PVC cable H05VV-F containing halogen	0.5	46.432.0503.1	46.422.0503.1	46.422.0507.4
	1	46.432.1003.1	46.422.1003.1	46.422.1007.4
	2	46.432.2003.1	46.422.2003.1	46.422.2007.4
	3	46.432.3003.1	46.422.3003.1	46.422.3007.4
	4	46.432.4003.1	46.422.4003.1	46.422.4007.4
5	46.432.5003.1	46.422.5003.1	46.422.5007.4	

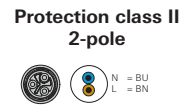
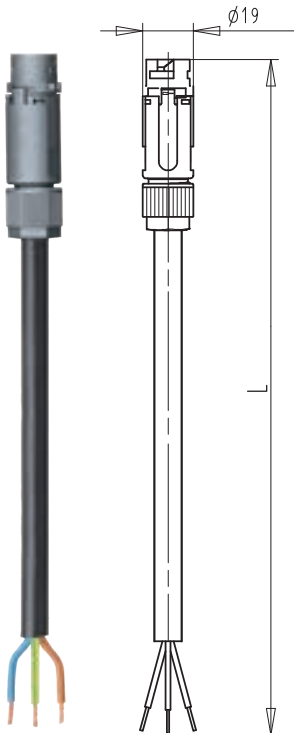
Cable	Length m	Part No.	Part No.	Part No.
Rubber-sheathed cable H07RN-F containing halogen	0.5	46.432.0533.1	46.422.0533.1	46.422.0537.4
	1	46.432.1033.1	46.422.1033.1	46.422.1037.4
	2	46.432.2033.1	46.422.2033.1	46.422.2037.4
	3	46.432.3033.1	46.422.3033.1	46.422.3037.4
	4	46.432.4033.1	46.422.4033.1	46.422.4037.4
5	46.432.5033.1	46.422.5033.1	46.422.5037.4	

2-pole connectors – one pole is not configured.

Cable assemblies

1.5 mm²; 16 A

Connection cables male – free end



Cable	Length m	Part No.	Part No.	Part No.
PVC cable H05VV-F containing halogen	0.5	46.432.0504.1	46.422.0504.1	46.422.0508.4
	1	46.432.1004.1	46.422.1004.1	46.422.1008.4
	2	46.432.2004.1	46.422.2004.1	46.422.2008.4
	3	46.432.3004.1	46.422.3004.1	46.422.3008.4
	4	46.432.4004.1	46.422.4004.1	46.422.4008.4
5	46.432.5004.1	46.422.5004.1	46.422.5008.4	

Cable	Length m	Part No.	Part No.	Part No.
Rubber-sheathed cable H07RN-F containing halogen	0.5	46.432.0534.1	46.422.0534.1	46.422.0538.4
	1	46.432.1034.1	46.422.1034.1	46.422.1038.4
	2	46.432.2034.1	46.422.2034.1	46.422.2038.4
	3	46.432.3034.1	46.422.3034.1	46.422.3038.4
	4	46.432.4034.1	46.422.4034.1	46.422.4038.4
5	46.432.5034.1	46.422.5034.1	46.422.5038.4	

2-pole connectors – one pole is not configured.

Distribution units

RST compact distribution units

Dimensions

104 x 162 x 57.2 mm

pre-wired with

1.5 mm² (halogen free)

Mounting option

Yes

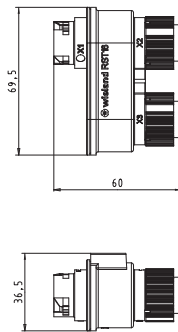


Color	Application	Pole marking	Input	Outputs	Part No.
■ black	Mains	L, N, PE	1	3	46.030.0153.1
■ light grey	Mains	L, N, PE	1	3	46.030.0153.0
■ black	SKII	L, N	1	3	46.030.0154.1
■ light grey	SKII	L, N	1	3	46.030.0154.0
■ leaves green	250/400V with PE	1, 2, PE	1	3	46.030.0155.7
■ light blue	250/400V without PE	1, 2, 3	1	3	46.030.0153.9
■ light blue	250/400V without PE1)	1, 2	1	3	46.030.0154.9
■ turquoise blue	Dimming with PE	D1, D2, PE	1	3	46.030.0150.6
■ turquoise blue	Dimming ¹⁾	D1, D2	1	3	46.030.0151.6
■ signal brown	Extra-low voltage (50V~120V-)	1, 2, 3	1	3	46.030.0150.4
■ signal brown	Extra-low voltage ¹⁾ (50V~120V-)	1, 2	1	3	46.030.0151.4

RST® MINI distribution block 1E/2A

Mounting option

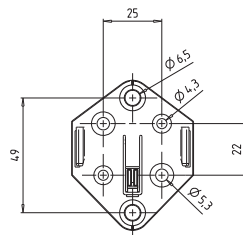
with separate mounting plate



Color	Application	Pole marking	Input	Outputs	Part No.
■ black	Mains	L, N, PE	1	2	46.030.1253.1
■ light grey	Mains	L, N, PE	1	2	46.030.1253.0
■ black	SKII	L, N	1	2	46.030.1254.1
■ light grey	SKII	L, N	1	2	46.030.1254.0
■ leaves green	250/400V with PE	1, 2, PE	1	2	46.030.1255.7
■ light blue	250/400V without PE	1, 2, 3	1	2	46.030.1253.9
■ light blue	250/400V without PE1)	1, 2	1	2	46.030.1254.9
■ turquoise blue	Dimming with PE	D1, D2, PE	1	2	46.030.1250.6
■ turquoise blue	Dimming ¹⁾	D1, D2	1	2	46.030.1251.6
■ signal brown	Extra-low voltage (50V~120V-)	1, 2, 3	1	2	46.030.1250.4
■ signal brown	Extra-low voltage ¹⁾ (50V~120V-)	1, 2	1	2	46.030.1251.4

Available 3rd quarter 2016

Mounting plate for distribution block RST® MINI



Color	Application	Pole marking	Input	Outputs	Part No.
■ black					06.562.5853.1
■ light grey					06.562.5853.0

Available 3rd quarter 2016



Accessories

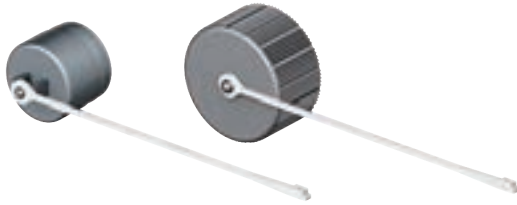
Cover caps

For the safe closure of female and male connectors.

With mounting strap for snapping onto plug connectors and device connectors

for female

for male



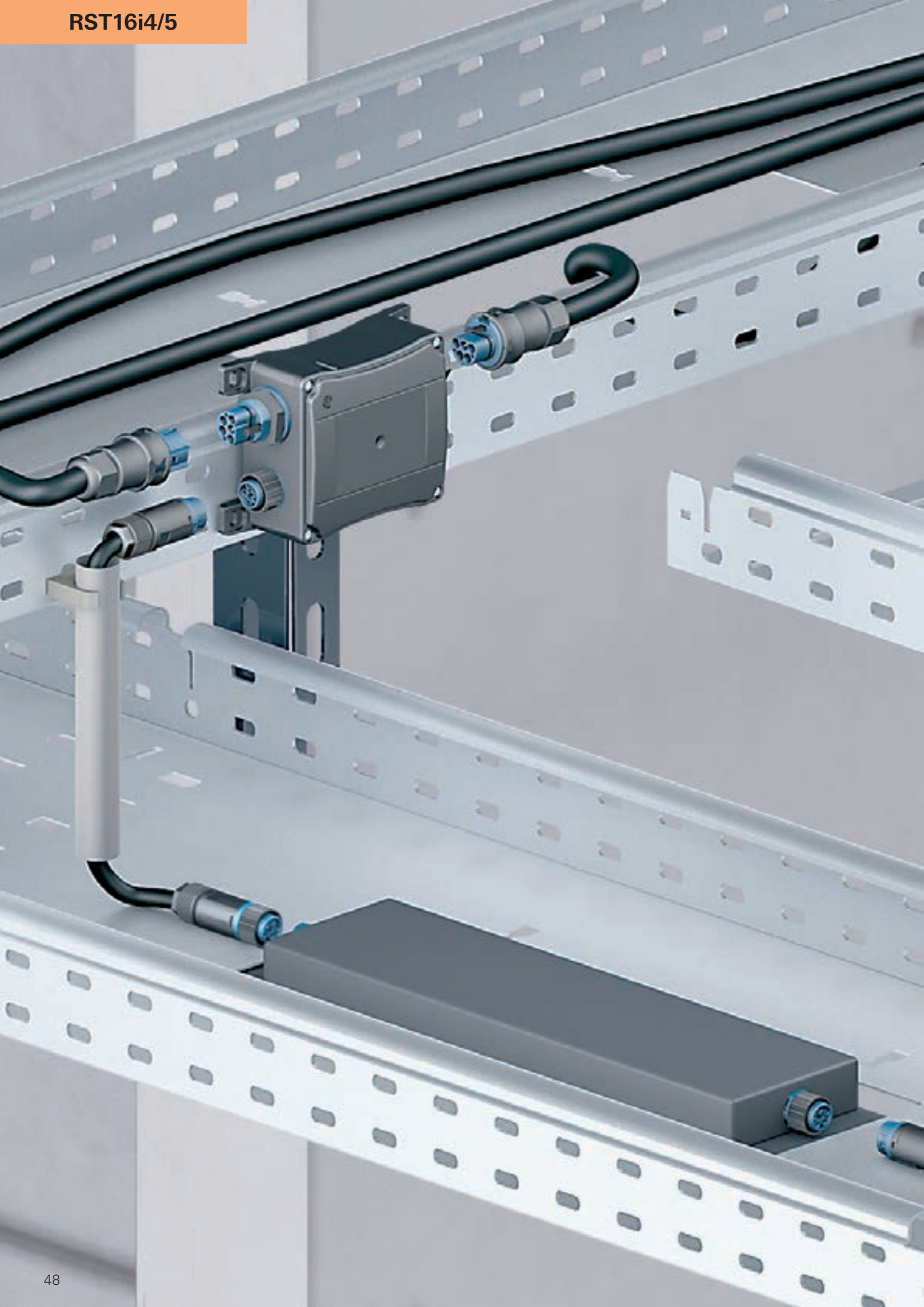
Color	for female	for male
	Part No.	Part No.
■ light grey	Z6.561.7253.0	Z6.561.6953.0
■ black	Z6.561.7253.1	Z6.561.6953.1

Sample kit

RST16i3 sample kit



Contents:	Part No.
Connectors	
Device connectors	
Contact parts in various codings	
Cover caps	99.674.0000.0



The RST16i4/5 product line – general network applications, lighting installation with dimming function, connection of electrical (sunblind) drives, applications in the extra-low voltage range (LED technology)

Application example







General

The **RST16i4/5** product line has a total of four mechanical codings and a wide variety of uses, from general network applications to applications in the extra-low voltage range. The main focus is the connection of dimmable luminaires with a compact design. This series is also tailored for the electrification of RGB or RGB-W/A outdoor spotlights. There are different mechanical codings available for every application. This means that only associated pairs of male and female connectors can be connected, with the correct polarity ensured. This gives you the security of a clear distinction.

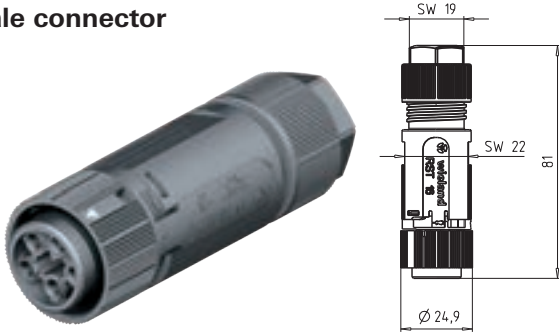
The codings are also available in a 4-pole variant. This is based on the 5-pole housing, but with one pole not configured.

Coding

	Application	Power		Power/ Dimming	Extra-low voltage	250/400V without PE
	Mechanical coding, for example	1, 2, 3, N, PE		L, N, PE, 1, 2	1, 2, 3, 4, 5	1, 2, 3, 4, 5
						
Name	Description	black	light gray	turquoise	signal brown	light blue
Connectors		✓	✓	✓	✓	✓
Device connectors M20,2		✓	✓	✓	✓	✓
Distribution units	RST® compact and multiple distributors	✓	✓	✓	✓	✓
	Distribution block 1E/2A	✓	✓	✓	✓	✓
	Individual distribution box	on request	on request	on request	on request	on request
Cable assemblies	Device connector cable Male – free end	✓	on request	✓	on request	on request
	Connection cable Female – free end	✓	on request	✓	on request	on request
	Extension cable Female – male	✓	on request	✓	on request	on request

Connectors, straight
for cables Ø 7.1 – 13 mm²⁾

Female connector

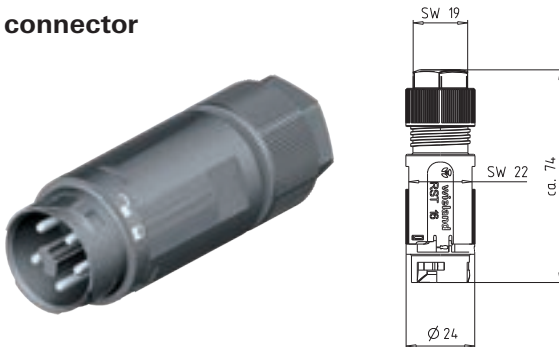


Rated values

Rated voltage	250/400V
Rated current	16A
Rated cross-section	0.25 to 1.5 mm ² (suitable for ferrules)
Approvals	VDE, UL, CSA, LR, DNV/GL, RINA, BV being prepared

Application	Coding	Pole marking	Color	Part No.
with screw connection				
Power		1, 2, 3, N, PE	black light gray	46.051.4553.1 46.051.4553.0
Motor connection ¹⁾		1, 2, 3, PE	black light gray	46.051.4554.1 46.051.4554.0
Power/Dimming		L, N, PE, 1, 2	turquoise	46.051.4553.6
250/400V without PE		1, 2, 3, 4, 5	light blue	46.051.4553.9
Extra-low voltage (50V~/120V-)		1, 2, 3, 4, 5	signal brown	46.051.4550.4
Extra-low voltage ¹⁾ (50V~/120V-)		1, 2, 3, 4	signal brown	46.051.4551.4

Male connector



Rated values

Rated voltage	250/400V
Rated current	16 A
Rated cross-section	0.25 to 1.5 mm ² (suitable for ferrules)
Approvals	VDE, UL, CSA, LR, DNV/GL, RINA, BV being prepared

Application	Coding	Pole marking	Color	Part No.
with screw connection				
Power		1, 2, 3, N, PE	black light gray	46.052.4553.1 46.052.4553.0
Motor connection ¹⁾		1, 2, 3, PE	black light gray	46.052.4554.1 46.052.4554.0
Power/Dimming		L, N, PE, 1, 2	turquoise	46.052.4553.6
250/400V without PE		1, 2, 3, 4, 5	light blue	46.052.4553.9
Extra-low voltage (50V~/120V-)		1, 2, 3, 4, 5	signal brown	46.052.4550.4
Extra-low voltage ¹⁾ (50V~/120V-)		1, 2, 3, 4	signal brown	46.052.4551.4

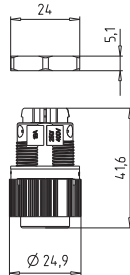
¹⁾ One pole not configured
²⁾ Other diameters available upon request

M20.2 device connector straight

Female connector



For housing cut-out see Technical Data



Rated values

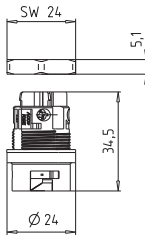
Rated voltage	250/400V
Rated current	16A
Rated cross-section	0.25 to 2.5 mm ² (up to 1.5 mm ² suitable for ferrules)
Approvals	VDE, UL, CSA, LR, DNV/GL, RINA, BV being prepared
Gehäuse-Wandstärken	bis 5 mm

Application	Coding	Pole marking	Color	Part No.
with screw connection				
Power		1, 2, 3, N, PE	black light gray	46.051.5053.1 46.051.5053.0
Motor connection ¹⁾		1, 2, 3, PE	black light gray	46.051.5054.1 46.051.5054.0
Power/Dimming		L, N, PE, 1, 2	turquoise	46.051.5053.6
250/400V without PE		1, 2, 3, 4, 5	light blue	46.051.5053.9
Extra-low voltage (50V~/120V-)		1, 2, 3, 4, 5	signal brown	46.051.5050.4
Extra-low voltage ¹⁾ (50V~/120V-)		1, 2, 3, 4	signal brown	46.051.5051.4

Male connector



For housing cut-out see Technical Data



Rated values

Rated voltage	250/400V
Rated current	16A
Rated cross-section	0.25 to 2.5 mm ² (up to 1.5 mm ² suitable for ferrules)
Approvals	VDE, UL, CSA, LR, DNV/GL, RINA, BV being prepared
Gehäuse-Wandstärken	bis 5 mm

Application	Coding	Pole marking	Color	Part No.
with screw connection				
Power		1, 2, 3, N, PE	black light gray	46.052.5053.1 46.052.5053.0
Motor connection ¹⁾		1, 2, 3, PE	black light gray	46.052.5054.1 46.052.5054.0
Power/Dimming		L, N, PE, 1, 2	turquoise	46.052.5053.6
250/400V without PE		1, 2, 3, 4, 5	light blue	46.052.5053.9
Extra-low voltage (50V~/120V-)		1, 2, 3, 4, 5	signal brown	46.052.5050.4
Extra-low voltage ¹⁾ (50V~/120V-)		1, 2, 3, 4	signal brown	46.052.5051.4

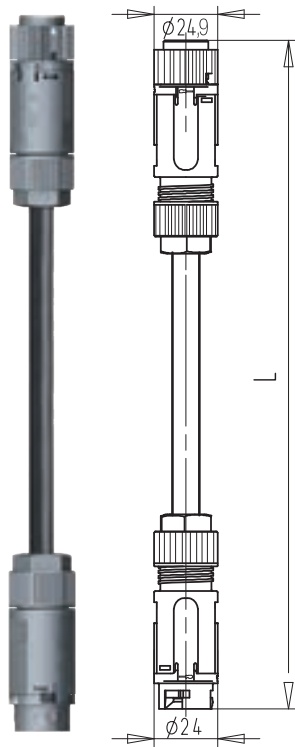
¹⁾ One pole not configured

Cable assemblies

1.5 mm²; 16 A

Rated values			Connection type of cable	
Wire ends	(open cable end)	ultrason. welded	cable gland	
Sheath strip length	(open cable end)	35 mm	Interlock	integrated
Insulation strip length	(open cable end)	9 mm	Color cable	black
			Color handle shell	black

Connection cables female – male



**Power 250 V
5-pole**



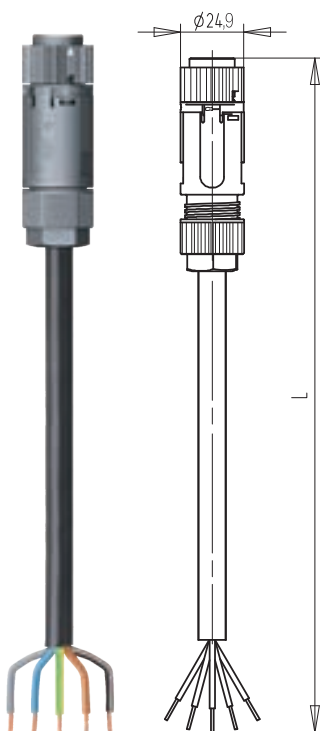
**Power/Dimming
5-pole**



Cable	Length m	Part No.	Part No.
PVC cable H05VV-F containing halogen	0.5	46.452.0500.1	46.452.0500.6
	1	46.452.1000.1	46.452.1000.6
	2	46.452.2000.1	46.452.2000.6
	3	46.452.3000.1	46.452.3000.6
	4	46.452.4000.1	46.452.4000.6
5	46.452.5000.1	46.452.5000.6	

Cable	Length m	Part No.	Part No.
Rubber-sheathed cable H07RN-F containing halogen	0.5	46.452.0530.1	46.452.0530.6
	1	46.452.1030.1	46.452.1030.6
	2	46.452.2030.1	46.452.2030.6
	3	46.452.3030.1	46.452.3030.6
	4	46.452.4030.1	46.452.4030.6
5	46.452.5030.1	46.452.5030.6	

Connection cables female – free end



**Power 250 V
5-pole**



**Power/Dimming
5-pole**



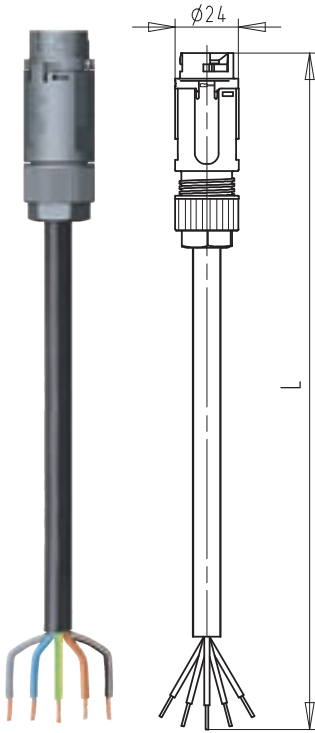
Cable	Length m	Part No.	Part No.
PVC cable H05VV-F containing halogen	0.5	46.452.0503.1	46.452.0503.6
	1	46.452.1003.1	46.452.1003.6
	2	46.452.2003.1	46.452.2003.6
	3	46.452.3003.1	46.452.3003.6
	4	46.452.4003.1	46.452.4003.6
5	46.452.5003.1	46.452.5003.6	

Cable	Length m	Part No.	Part No.
Rubber-sheathed cable H07RN-F containing halogen	0.5	46.452.0533.1	46.452.0533.6
	1	46.452.1033.1	46.452.1033.6
	2	46.452.2033.1	46.452.2033.6
	3	46.452.3033.1	46.452.3033.6
	4	46.452.4033.1	46.452.4033.6
5	46.452.5033.1	46.452.5033.6	

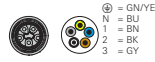
Cable assemblies

1.5 mm²; 16 A

Connection cables male – free end



Power 250 V 5-pole



Power/Dimming 5-pole



Cable	Length m	Part No.	Part No.
PVC cable H05VV-F containing halogen	0.5	46.452.0504.1	46.452.0504.6
	1	46.452.1004.1	46.452.1004.6
	2	46.452.2004.1	46.452.2004.6
	3	46.452.3004.1	46.452.3004.6
	4	46.452.4004.1	46.452.4004.6
5	46.452.5004.1	46.452.5004.6	

Cable	Length m	Part No.	Part No.
Rubber-sheathed cable H07RN-F containing halogen	0.5	46.452.0534.1	46.452.0534.6
	1	46.452.1034.1	46.452.1034.6
	2	46.452.2034.1	46.452.2034.6
	3	46.452.3034.1	46.452.3034.6
	4	46.452.4034.1	46.452.4034.6
5	46.452.5034.1	46.452.5034.6	

Distribution units

RST compact distribution units

Dimensions 104 x 162 x 57.2 mm

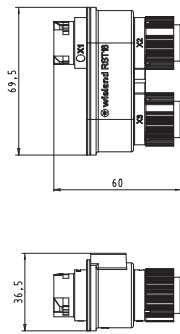
pre-wired with 1.5 mm²
Mounting option yes



Color	Application	Pole marking	Input	Outputs	Part No.
■ black	Mains	1, 2, 3, N, PE	1	2	46.050.0153.1
■ light grey	Mains	1, 2, 3, N, PE	1	2	46.050.0153.0
■ black	Motor connection ¹⁾	1, 2, 3, PE	1	2	46.050.0154.1
■ light grey	Motor connection ¹⁾	1, 2, 3, PE	1	2	46.050.0154.0
■ turquoise blue	Mains/Dimming	L, N, PE, 1, 2	1	2	46.050.0153.6
■ light blue	up to 400V without PE	1, 2, 3, 4, 5	1	2	46.050.0153.9
■ signal brown	Extra-low voltage (50V~120V-)	1, 2, 3, 4, 5	1	2	46.050.0150.4
■ signal brown	Extra-low voltage ¹⁾ (50V~120V-)	1, 2, 3, 4	1	2	46.050.0151.4

RST® MINI distribution block 1E/2A

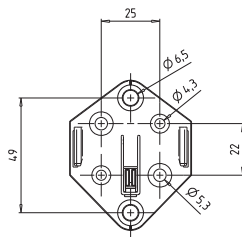
Mounting option with separate mounting plate



Color	Application	Pole marking	Input	Outputs	Part No.
■ black	Mains	1, 2, 3, N, PE	1	2	46.050.1253.1
■ light grey	Mains	1, 2, 3, N, PE	1	2	46.050.1253.0
■ black	Motor connection ¹⁾	1, 2, 3, PE	1	2	46.050.1254.1
■ light grey	Motor connection ¹⁾	1, 2, 3, PE	1	2	46.050.1254.0
■ turquoise blue	Mains/Dimming	L, N, PE, 1, 2	1	2	46.050.1253.6
■ light blue	up to 400V without PE	1, 2, 3, 4, 5	1	2	46.050.1253.9
■ signal brown	Extra-low voltage (50V~120V-)	1, 2, 3, 4, 5	1	2	46.050.1250.4
■ signal brown	Extra-low voltage ¹⁾ (50V~120V-)	1, 2, 3, 4	1	2	46.050.1251.4

Available 3rd quarter 2016

Mounting plate for distribution block RST® MINI



Color	Application	Pole marking	Input	Outputs	Part No.
■ black					06.562.5853.1
■ light grey					06.562.5853.0

Available 3rd quarter 2016



Accessories

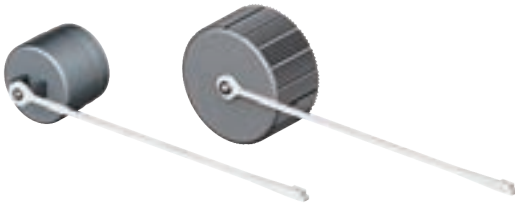
Cover caps

For the safe closure of female and male connectors.

With mounting strap for snapping onto plug connectors and device connectors

for female

for male



Color	for female	for male
	Part No.	Part No.
■ light grey	Z6.561.7153.0	Z6.561.6853.0
■ black	Z6.561.7153.1	Z6.561.6853.1

Sample kit

RST16i5 sample kit



Contents:	Part No.
Connectors	
Device connectors	
Contact parts in various codings	99.675.0000.0
Cover caps	

Technical data **RST**[®] MINI

	RST16i2/3	RST16i4/5
Rated voltage	250/400V	250/400V
Rated current	16A	16A
Number of poles	3/2	5/4

Connector

temperature range:

- 40 °C to 100 °C

Material:

Contact parts: brass, surface-treated
Housing parts: Polyamide, halogen-free, V2
Sealing material: NBR

Pollution degree:

3 (when connected)

Degree of protection:

IP66/68 (3m; 2h)/69K

IK-Code

IK07 (2 Joule)

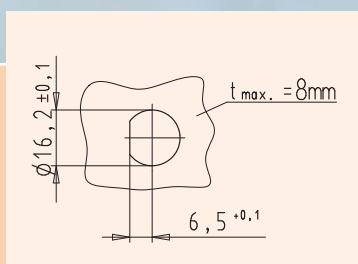
Plugging cycles:

according to IEC 61535
100x without load and
50x under nominal load (cos phi = 0.6)

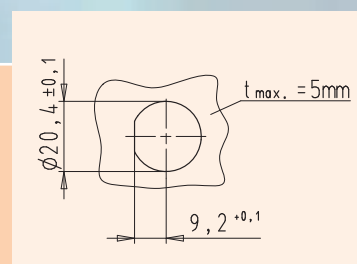
Approvals:

VDE (IEC 61535)
UL (UL 2238 / UL 1977)
CSA (C22.2 No.182.1 / C22.2 No.182.3)
RINA, LR, DNV/GL, BV

Housing cut-out
RST16i2/3



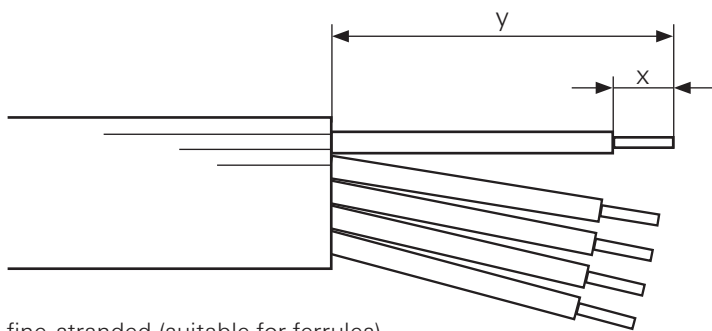
Housing cut-out
RST16i4/5



Wire strip lengths

Installation instructions RST16i2/3 / RST16i4/5

Wire strip lengths



fine-stranded (suitable for ferrules)

Conductor	PE	N, L, 1, 2, 3
Sheath strip length y (mm)	33	25
Wire strip length x (mm)	8	8

Assembly

Positioning the housing



Closing the housing



Locking the housing

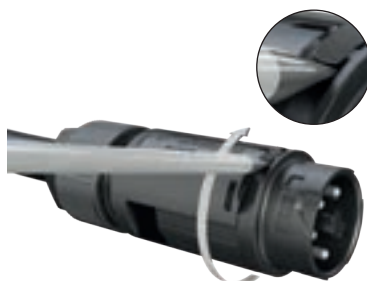


Disassembly

Insert screwdriver



Unlocking the housing



Opening the housing



Please note that electrical connections and installation shall only be done by trained experts. Observe the included installation instructions!

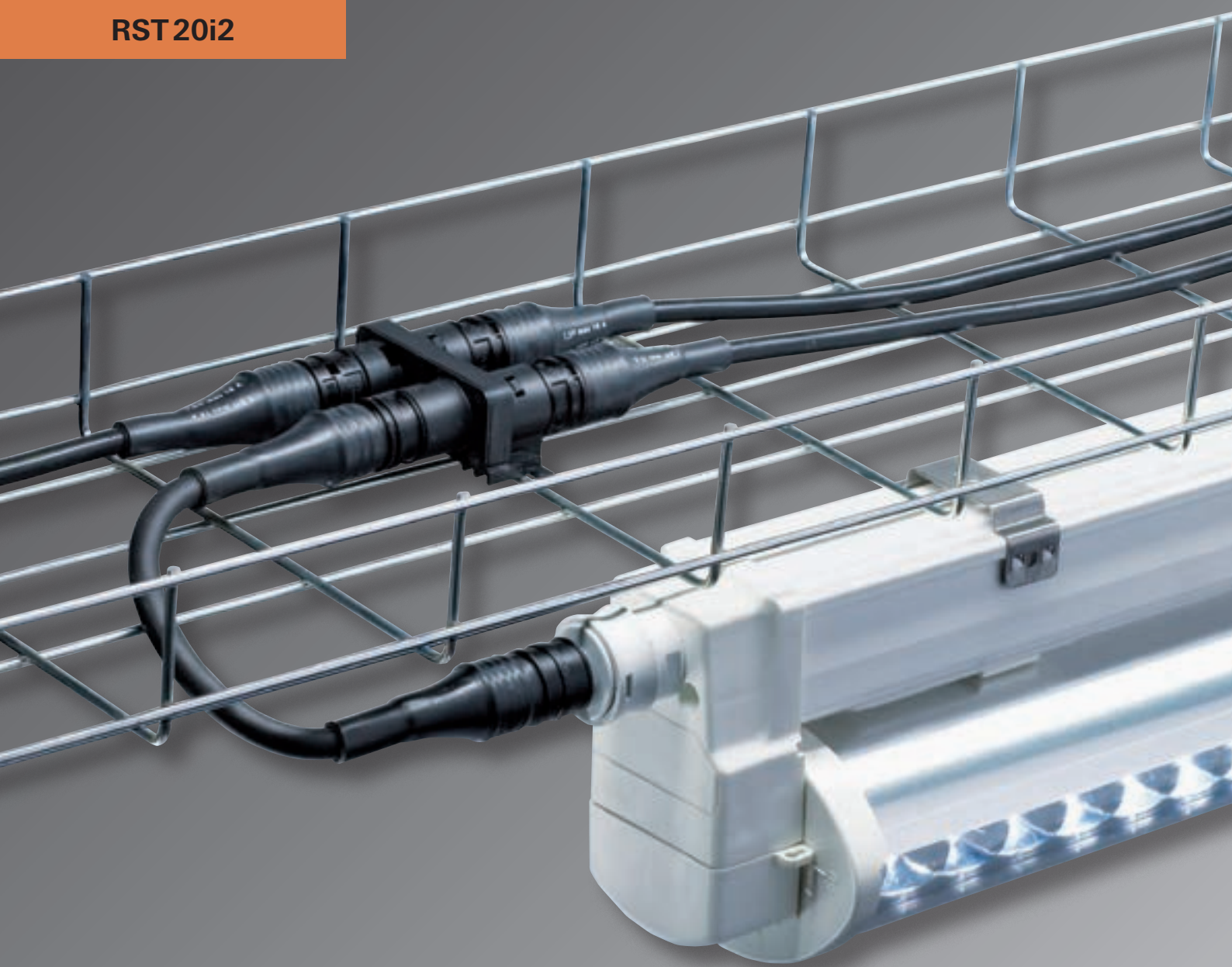
Detailed installation instructions can be found under <https://eshop.wieland-electric.com>

Overview matrix **RST®** CLASSIC. Codings and applications at a glance

		RST 20i2			RST 20i3				
		2-pole, 20A			3-pole, 20A				
Pole marking		L, N	1, 2	+, -	L, N, ⊕	1, 2, ⊕	1, 2, 3/N	1, 2, ⊕	
Application		Protection class II 250V	Extra-low voltage LED serial, 24 V	Extra-low voltage LED parallel, AS-i	Power 250V	Power 250V/400V	Switching applications 230V	Extra-low voltage with ⊕	
Contact insert male and female									
		Spring clamp Screw	Spring clamp Screw	Screw	Spring clamp Screw Crimp	Spring clamp Screw	Spring clamp Screw	Spring clamp Screw	
Connectors	1 x cable entry	Ø 6 –10 mm	✓	✓	✓	✓	✓	✓	
		Ø 10 –14 mm	✓	✓	✓	✓	✓	✓	
		Ø 13 –18 mm				✓	✓	✓	
		Flat cable 13 x 6 mm AS-i profile cable	✓						✓
	2 x cable entry	Ø 6 –10 mm	✓	✓		✓	✓	✓	
		Ø 10 –14 mm	✓	✓		✓	✓	✓	
		AS-i Profilleitung							
	Device connectors	1 piece	M25	✓	✓	✓	✓	✓	✓
2 piece		M16 straight	✓	✓	✓	✓	✓	✓	✓
		M16 7° angled	✓	✓	✓	✓	✓	✓	✓
		M20 straight	✓	✓	✓	✓	✓	✓	✓
		M20 angled	✓	✓	✓	✓	✓	✓	✓
		M25 angled	✓	✓	✓	✓	✓	✓	✓
Distrib. units		Distribution block 1 I/3 O	✓	✓	✓	✓	✓		✓
	RST® compact/ multi-distribution units	✓	✓	✓	✓	✓	✓	✓	
	Individual distribution box	✓	✓	✓	✓	✓	✓	✓	
Cable assemblies	Expansion cable Female – Male	✓	✓	✓	✓	✓	✓	✓	
	Power connection Female – Free end	✓	✓	✓	✓	✓	✓	✓	
	Device connection Male – Free end	✓	✓	✓	✓	✓	✓	✓	
	Power connection Safety plug – female				✓				
	Power cable/contour cable European connector, SKII – female	✓							

RST 25i3	RST 20i4		RST 20i5				RST 25i5	
3-pole, 32A	4-pole, 20A		5-pole, 20A				5-pole, 25A (3~)	
L, N, ⊕	1, 2, 3, ⊕	1, 2, 3, 4	1, 2, 3, N, ⊕	1, 2, 3, 4, 5	L, N, ⊕, D1, D2	1, 2, 3, 4, 5	N, E, 1, 2, 3	L, N, ⊕, 1, 2
Power 250V	Power 250V/400V	Extra-low voltage AS-i, 24 V	Power 250V/400V	Extra-low voltage	Power 250 V/ Dimming	Switching applications 230V	Power 250V/400V without ⊕	Power 250V/400V
								
								
Screw	Screw Crimp	Screw Crimp	Screw Crimp	Screw Crimp	Screw Crimp	Screw Crimp	Screw	Screw
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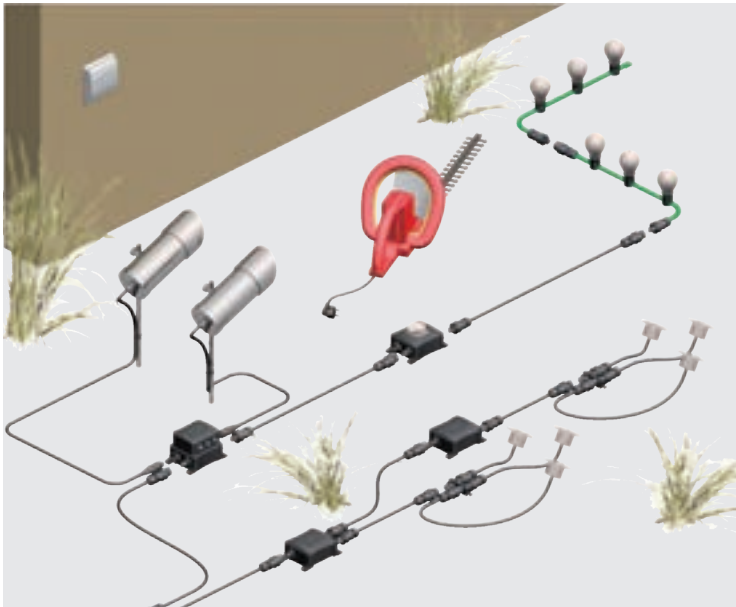
RST® CLASSIC



Applications in the range of protection class II and extra-low voltage for industry and LED technology



Application example



You therefore have the security of a clear separation of different applications without having to redo any incorrect connections. The color of the connectors indicates the links that belong together.

General

The two-pole connectors are based on the 3-pole variant, but with one pole not configured.

There are essentially two variants. One coding is specifically reserved for protection class II applications and is downwardly compatible with the 3-pole system with ground conductor (RST 20i3).

This makes it possible to transition from a system with earthing contact to a 2-pole system – but not the other way round!

The other version is aimed at applications in the extra-low voltage range, such as serial or parallel LED wiring, or at industrial applications with 24 V auxiliary power and AS-i. All connectors are mechanically coded. This means that only associated pairs of male and female can be connected with the correct polarity.

Coding

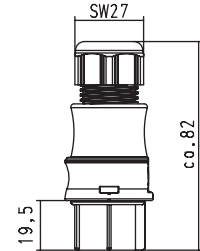
For daily updates visit the website at http://eshop.wieland-electric.com . Assembly instructions and other technical information can be found in the Technical Data or in eShop.					Application		Extra-low voltage	
					Mechanical coding, for example		Protection class II	LED seriell, e.g. 24V
Name	Description	Connection style	Strain relief housing	Connection points per pole	light gray	black	signal brown	pebble gray
Connector	1 x cable entry	Screw Spring clamp	yes	2	✓	✓	✓	✓
	2 x cable entry	Screw Spring clamp	yes	2	✓	✓	✓	✓
Distribution units	Distribution block 11/3 0				✓	✓	✓	✓
	RST compact distribution unit/multi-distribution unit				✓	✓	✓	on request
	Individual distribution box				on request	on request	on request	on request
	Series distribution unit for power LEDs						✓	
Device connectors	M16 device connector, modular, straight				✓	✓	✓	✓
	M16 device connector, modular, angled 7°				✓	✓	✓	✓
	M25 device connector, standard				✓	✓	✓	✓
	M20 device connector, standard				✓	✓	✓	✓
	M20 device connector, modular, angled				✓	✓	✓	✓
	M25 device connector, modular, angled				✓	✓	✓	✓
Cable assemblies	Connection cable Male – Free end	pre-assembled	pre-assembled	pre-assembled	✓	✓	✓	✓
	Connection cable Female – Free end	pre-assembled	pre-assembled	pre-assembled	✓	✓	✓	✓
	Connection cable Male – Female	pre-assembled	pre-assembled	pre-assembled	✓	✓	✓	✓
	Connection cable Europ. conn. SK II – Female	pre-assembled	pre-assembled	pre-assembled	✓	✓	✓	✓
	Round cable	pre-assembled	pre-assembled	pre-assembled	✓	✓	✓	✓
	AS-i profile cable	pre-assembled	pre-assembled	pre-assembled				✓
								✓

Connectors, straight for cables Ø 6 – 10 mm and 10 – 14 mm

Female connector

Unmounted with cable gland.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



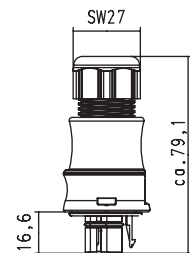
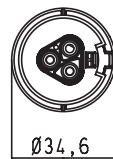
with spring clamp connection			with screw connection ¹⁾		
Wire	mm ²	Ferrules	Wire	mm ²	Ferrules
rigid	0.5 – 2.5		rigid		
fine-stranded	0.5 – 1.5	with ferrules	fine-stranded	0.75 – 6.0 ²⁾	without ferrules
stranded	0.75 – 1.5	with ferrules	stranded		without ferrules

Application	Coding	Cable diameter in mm	Color	Part No.	Part No.
Protection class II 250 V	L, N	6 – 10	light gray	96.021.0053.0	96.021.4053.0
			black	96.021.0053.1	96.021.4053.1
		10 – 14	light gray	96.021.0153.0	96.021.4153.0
			black	96.021.0153.1	96.021.4153.1
		Illumination cable 13.3x5.3 H05RNH2-F2 x 1.5 ²	light gray	96.021.0453.0	96.021.4453.0
			black	96.021.0453.1	96.021.4453.1
Extra-low volt. e.g. LED serial, 24V	1, 2	6 – 10	signal brown	96.021.0051.4	96.021.4051.4
		AS-i profile cable	signal brown	96.021.0951.4	96.021.4951.4
Extra-low volt. e.g. LED parallel, AS-i	+, -	Round cable 6 – 10	pebble gray	96.021.0050.8	96.021.4050.8
		AS-i profile cable	pebble gray	96.021.0950.8	96.021.4950.8

Male connector

Unmounted with cable gland and locking device.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



with spring clamp connection			with screw connection ¹⁾		
Wire	mm ²	Ferrules	Wire	mm ²	Ferrules
rigid	0.5 – 2.5		rigid		
fine-stranded	0.5 – 1.5	with ferrules	fine-stranded	0.75 – 6.0 ²⁾	without ferrules
stranded	0.75 – 1.5	with ferrules	stranded		without ferrules

Application	Coding	Cable diameter in mm	Color	Part No.	Part No.
Protection class II 250 V	N, L	6 – 10	light gray	96.022.0053.0	96.022.4053.0
			black	96.022.0053.1	96.022.4053.1
		10 – 14	light gray	96.022.0153.0	96.022.4153.0
			black	96.022.0153.1	96.022.4153.1
		Illumination cable 13.3x5.3 H05RNH2-F2 x 1.5 ²	light gray	96.022.0453.0	96.022.4453.0
			black	96.022.0453.1	96.022.4453.1
Extra-low volt. e.g. LED serial, 24V	2, 1	6 – 10	signal brown	96.022.0051.4	96.022.4051.4
		AS-i profile cable	signal brown	96.022.0951.4	96.022.4951.4
Extra-low volt. e.g. LED parallel, AS-i	-, +	Round cable 6 – 10	pebble gray	96.022.0050.8	96.022.4050.8
		AS-i profile cable	pebble gray	96.022.0950.8	96.022.4950.8

¹⁾ With wire protection available on request

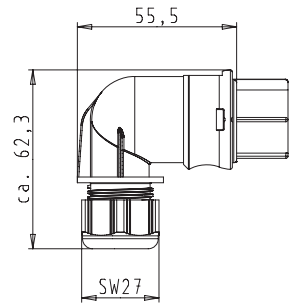
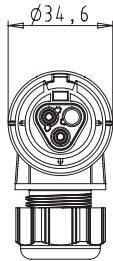
²⁾ With 6.0 mm² wires, the pull and bending forces at the connector must be taken into consideration and compensated using suitable measures if required. See also chapter on Technical Data and eShop.

Connectors, angled 90° for cables Ø 6 – 10 mm and 10 – 14 mm

Female connector

Unmounted with cable gland.
90° angle.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



with spring clamp connection

Wire	mm ²	Ferrules
rigid	0.5 – 2.5	
fine-stranded	0.5 – 1.5	with ferrules
stranded	0.75 – 1.5	with ferrules

with screw connection¹⁾

Wire	mm ²	
rigid		
fine-stranded	0.75 – 6.0 ²⁾	without ferrules
stranded		without ferrules

Application	Coding	Cable diameter in mm	Color
Protection class II 250 V	L, N	6 – 10	light gray black
		10 – 14	light gray black
		Illumination cable 13.3x5.3 H05RNH2-F2 x 1.5 ²	light gray black
		6 – 10	signal brown signal brown
Extra-low volt. e.g. LED serial, 24V	1, 2	AS-i profile cable	signal brown
Extra-low volt. e.g. LED parallel, AS-i	+, -	Round cable 6 – 10 AS-i profile cable	pebble gray pebble gray

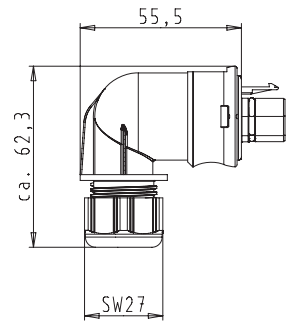
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96.023.0153.0
96.023.0153.1
96.023.0453.0
96.023.0453.1
96.023.0051.4
96.023.0951.4
96.023.0050.8
96.023.0950.8

Part No.
96.023.4053.0
96.023.4053.1
96.023.4153.0
96.023.4153.1
96.023.4453.0
96.023.4453.1
96.023.4051.4
96.023.4951.4
96.023.4050.8
96.023.4950.8

Male connector

Unmounted with cable gland.
90° angle.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



with spring clamp connection

Wire	mm ²	Ferrules
rigid	0.5 – 2.5	
fine-stranded	0.5 – 1.5	with ferrules
stranded	0.75 – 1.5	with ferrules

with screw connection¹⁾

Wire	mm ²	
rigid		
fine-stranded	0.75 – 6.0 ²⁾	without ferrules
stranded		without ferrules

Application	Coding	Cable diameter in mm	Color
Protection class II 250 V	N, L	6 – 10	light gray black
		10 – 14	light gray black
		Illumination cable 13.3x5.3 H05RNH2-F2 x 1.5 ²	light gray black
		6 – 10	signal brown signal brown
Extra-low volt. e.g. LED serial, 24V	2, 1	AS-i profile cable	signal brown
Extra-low volt. e.g. LED parallel, AS-i	-, +	Round cable 6 – 10 AS-i profile cable	pebble gray pebble gray

Part No.
96.024.0053.0
96.024.0053.1
96.024.0153.0
96.024.0153.1
96.024.0453.0
96.024.0453.1
96.024.0051.4
96.024.0951.4
96.024.0050.8
96.024.0950.8

Part No.
96.024.4053.0
96.024.4053.1
96.024.4153.0
96.024.4153.1
96.024.4453.0
96.024.4453.1
96.024.4051.4
96.024.4951.4
96.024.4050.8
96.024.4950.8

¹⁾ With wire protection available on request

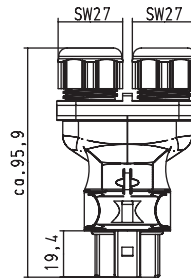
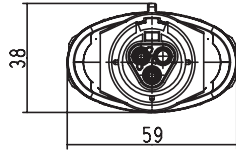
²⁾ With 6.0 mm² wires, the pull and bending forces at the connector must be taken into consideration and compensated using suitable measures if required. See also chapter on Technical Data and eShop.

Splitter connector, straight for cables Ø 6 – 10 mm and 10 – 14 mm

Female connector

Unmounted with cable gland.

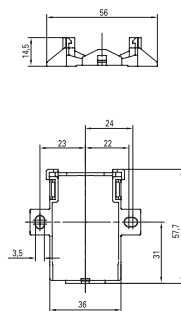
See the Technical Data for insulation strip lengths as well as the ferrules to be used.



with spring clamp connection			with screw connection ¹⁾		
Wire	mm ²	Ferrules	Wire	mm ²	
rigid	0.5 – 2.5		rigid		
fine-stranded	0.5 – 1.5	with ferrules	fine-stranded	0.75 – 2.5	without ferrules
stranded	0.75 – 1.5	with ferrules	stranded		without ferrules

Application	Coding	Cable diameter in mm	Color	Part No.	Part No.
Protection class II 250 V	L, N	6 – 10	light gray black	96.021.0253.0 96.021.0253.1	96.021.4253.0 96.021.4253.1
		10 – 14	light gray black	96.021.0353.0 96.021.0353.1	96.021.4353.0 96.021.4353.1
		Illumination cable 13.3x5.3 H05RNH2-F2 x 1.5 ²	light gray black	on request on request	on request on request
Extra-low volt. e.g. LED serial, 24V	1, 2	6 – 10	signal brown	96.021.0251.4	96.021.4251.4
		AS-i profile cable	signal brown	96.021.0351.4	96.021.4351.4

Mounting plate for splitter connectors



Color	Part No.
■ gray	01.006.1553.0
■ black	01.006.1553.1

¹⁾ With wire protection available on request

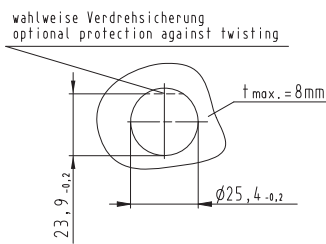
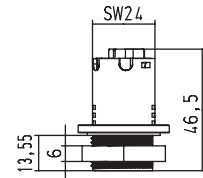
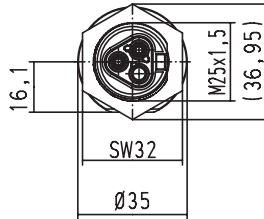
M25 device connector straight, standard

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from outside.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.

For spacer rings for unlocking at the device connector, see Accessories.



with spring clamp connection

Wire	mm ²	Ferrules
rigid	0.5 – 2.5	
fine-stranded	0.5 – 1.5	with ferrules
stranded	0.75 – 1.5	with ferrules
Term. poles	2	
Thread	M25 x 1.5	
Gland	outside	

with screw connection¹⁾

Wire	mm ²	
rigid		
fine-stranded	0.75 – 6.0	without ferrules
stranded		without ferrules
Term. poles	1	
Thread	M25 x 1.5	
Gland	outside	

Application	Coding	Color
250V	Protection class II L, N	gray black
Extra-low voltage	e.g. LED serial, 24V 1, 2	signal brown
	e.g. LED parallel, AS-i +, -	pebble gray

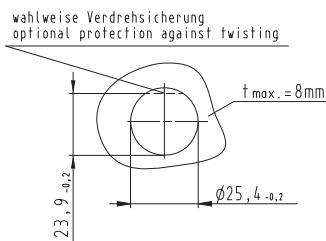
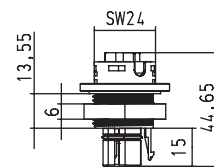
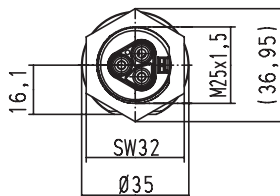
Part No.
96.021.1053.0
96.021.1053.1
96.021.1051.4
96.021.1050.8

Part No.
96.021.5053.0
96.021.5053.1
96.021.5051.4
96.021.5050.8

Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from outside. With locking device.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



with spring clamp connection

Wire	mm ²	Ferrules
rigid	0.5 – 2.5	
fine-stranded	0.5 – 1.5	with ferrules
stranded	0.75 – 1.5	with ferrules
Term. poles	2	
Thread	M25 x 1.5	
Gland	outside	

with screw connection¹⁾

Wire	mm ²	
rigid		
fine-stranded	0.75 – 6.0 ¹⁾	without ferrules
stranded		without ferrules
Term. poles	1	
Thread	M25 x 1.5	
Gland	outside	

Application	Coding	Color
250V	Protection class II N, L	gray black
Extra-low voltage	e.g. LED serial, 24V 1, 2	signal brown
	e.g. LED parallel, AS-i -, +	pebble gray

Part No.
96.022.1053.0
96.022.1053.1
96.022.1051.4
96.022.1050.8

Part No.
96.022.5053.0
96.022.5053.1
96.022.5051.4
96.022.5050.8

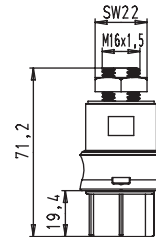
¹⁾ With wire protection available on request

M16 device connector straight, modular

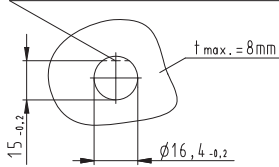
Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



wahlweise Verdrehsicherung
optional protection against twisting



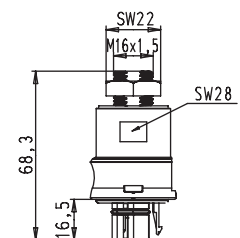
with spring clamp connection			with screw connection ¹⁾		
Wire	mm ²	Ferrules	Wire	mm ²	Ferrules
rigid	0.5 – 2.5		rigid		
fine-stranded	0.5 – 1.5	with ferrules	fine-stranded	0.75 – 6.0	without ferrules
stranded	0.75 – 1.5	with ferrules	stranded		without ferrules
Term. poles	2		Term. poles	1	
Thread	M16 x 1.5		Thread	M16 x 1.5	
Gland	inside		Gland	inside	
Part No.			Part No.		
96.021.2153.0			96.021.6153.0		
96.021.2153.1			96.021.6153.1		
96.021.2151.4			96.021.6151.4		
96.021.2150.8			96.021.6150.8		

Application	Coding	Color
250V	Protection class II L, N	gray black
Extra-low voltage	e.g. LED serial, 24V 1, 2	signal brown
	e.g. LED parallel, AS-i +, -	pebble gray

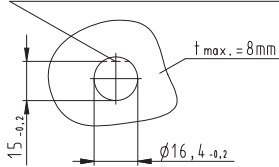
Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
With locking device.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



wahlweise Verdrehsicherung
optional protection against twisting



with spring clamp connection			with screw connection ¹⁾		
Wire	mm ²	Ferrules	Wire	mm ²	Ferrules
rigid	0.5 – 2.5		rigid		
fine-stranded	0.5 – 1.5	with ferrules	fine-stranded	0.75 – 6.0	without ferrules
stranded	0.75 – 1.5	with ferrules	stranded		without ferrules
Term. poles	2		Term. poles	1	
Thread	M16 x 1.5		Thread	M16 x 1.5	
Gland	inside		Gland	inside	
Part No.			Part No.		
96.022.2153.0			96.022.6153.0		
96.022.2153.1			96.022.6153.1		
96.022.2151.4			96.022.6151.4		
96.022.2150.8			96.022.6150.8		

Application	Coding	Color
250V	Protection class II N, L	gray black
Extra-low voltage	e.g. LED serial, 24V 1, 2	signal brown
	e.g. LED parallel, AS-i -, +	pebble gray

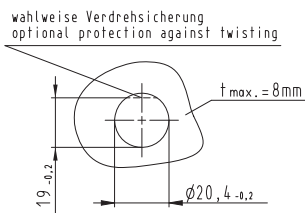
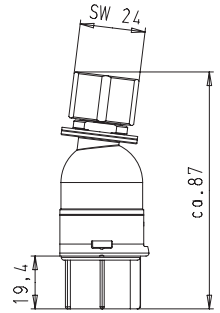
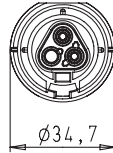
¹⁾ With wire protection available on request

M16 device connector angled 7°, modular

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside. With locking device.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



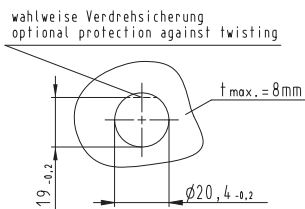
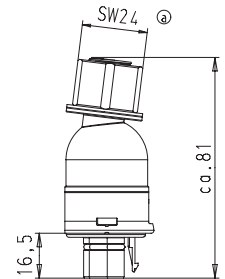
with spring clamp connection			with screw connection ¹⁾		
Wire	mm ²	Ferrules	Wire	mm ²	Ferrules
rigid	0.5 – 2.5		rigid		
fine-stranded	0.5 – 1.5	with ferrules with ferrules	fine-stranded	0.75 – 6.0	without ferrules without ferrules
stranded	0.75 – 1.5		stranded		
Term. poles	2		Term. poles	1	
Thread	M16 x 1.5		Thread	M16 x 1.5	
Gland	inside		Gland	inside	
Part No.			Part No.		
96.025.2153.0			96.025.6153.0		
96.025.2153.1			96.025.6153.1		
96.025.2151.4			96.025.6151.4		
			96.025.6150.8		

Application	Coding	Color
250V	Protection class II L, N	gray black
Extra-low voltage	e.g. LED serial, 24V 1, 2	signal brown
	e.g. LED parallel, AS-i +, -	pebble gray

Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside. With locking device.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



with spring clamp connection			with screw connection ¹⁾		
Wire	mm ²	Ferrules	Wire	mm ²	Ferrules
rigid	0.5 – 2.5		rigid		
fine-stranded	0.5 – 1.5	with ferrules with ferrules	fine-stranded	0.75 – 6.0	without ferrules without ferrules
stranded	0.75 – 1.5		stranded		
Term. poles	2		Term. poles	1	
Thread	M16 x 1.5		Thread	M16 x 1.5	
Gland	inside		Gland	inside	
Part No.			Part No.		
96.026.2153.0			96.026.6153.0		
96.026.2153.1			96.026.6153.1		
96.026.2151.4			96.026.6151.4		
96.026.2150.8			96.026.6150.8		

Application	Coding	Color
250V	Protection class II N, L	gray black
Extra-low voltage	e.g. LED serial, 24V 1, 2	signal brown
	e.g. LED parallel, AS-i -, +	pebble gray

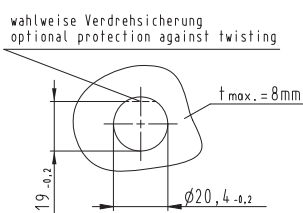
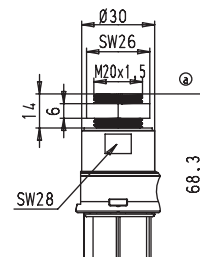
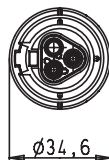
¹⁾ With wire protection available on request

M20 device connector straight, modular

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



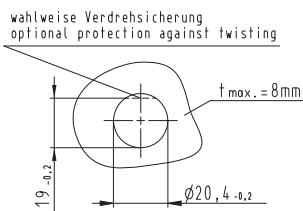
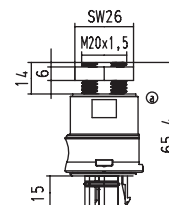
with spring clamp connection			with screw connection ¹⁾		
Wire	mm ²	Ferrules	Wire	mm ²	Ferrules
rigid	0.5 – 2.5		rigid		
fine-stranded	0.5 – 1.5	with ferrules	fine-stranded	0.75 – 6.0	without ferrules
stranded	0.75 – 1.5	with ferrules	stranded		without ferrules
Term. poles	2		Term. poles	1	
Thread	M20 x 1.5		Thread	M20 x 1.5	
Gland	inside		Gland	inside	
Part No.			Part No.		
96.021.2053.0			96.021.6053.0		
96.021.2053.1			96.021.6053.1		
96.021.2051.4			96.021.6051.4		
			96.021.6050.8		

Application	Coding	Color
250V	Protection class II L, N	gray black
Extra-low voltage	e.g. LED serial, 24V 1, 2	signal brown
	e.g. LED parallel, AS-i +, -	pebble gray

Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
With locking device.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



with spring clamp connection			with screw connection ¹⁾		
Wire	mm ²	Ferrules	Wire	mm ²	Ferrules
rigid	0.5 – 2.5		rigid		
fine-stranded	0.5 – 1.5	with ferrules	fine-stranded	0.75 – 6.0	without ferrules
stranded	0.75 – 1.5	with ferrules	stranded		without ferrules
Term. poles	2		Term. poles	1	
Thread	M20 x 1.5		Thread	M20 x 1.5	
Gland	inside		Gland	inside	
Part No.			Part No.		
96.022.2053.0			96.022.6053.0		
96.022.2053.1			96.022.6053.1		
96.022.2051.4			96.022.6051.4		
			96.022.6050.8		

Application	Coding	Color
250V	Protection class II L, N	gray black
Extra-low voltage	e.g. LED serial, 24V 1, 2	signal brown
	e.g. LED parallel, AS-i +, -	pebble gray

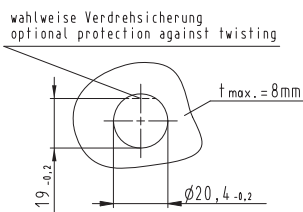
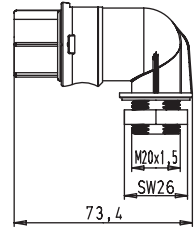
¹⁾ With wire protection available on request

M20 device connector angled 90°, modular

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside. 90° angle.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



with spring clamp connection			with screw connection ¹⁾		
Wire	mm ²	Ferrules	Wire	mm ²	
rigid	0.5 – 2.5		rigid		
fine-stranded	0.5 – 1.5	with ferrules	fine-stranded	0.75 – 6.0	without ferrules
stranded	0.75 – 1.5	with ferrules	stranded		without ferrules
Term. poles	2		Term. poles	1	
Thread	M20 x 1.5		Thread	M20 x 1.5	
Gland	inside		Gland	inside	

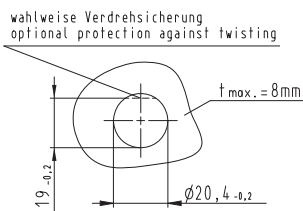
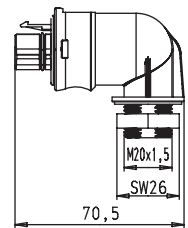
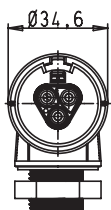
Application	Coding	Color
250V	Protection class II L, N	gray black
Extra-low voltage	e.g. LED serial, 24V 1, 2	signal brown
	e.g. LED parallel, AS-i +, -	pebble gray

Part No.	Part No.
96.023.2053.0	96.023.6053.0
96.023.2053.1	96.023.6053.1
96.023.2051.4	96.023.6051.4
96.023.2050.8	96.023.6050.8

Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside. With locking device. 90° angle.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



with spring clamp connection			with screw connection ¹⁾		
Wire	mm ²	Ferrules	Wire	mm ²	
rigid	0.5 – 2.5		rigid		
fine-stranded	0.5 – 1.5	with ferrules	fine-stranded	0.75 – 6.0	without ferrules
stranded	0.75 – 1.5	with ferrules	stranded		without ferrules
Term. poles	2		Term. poles	1	
Thread	M20 x 1.5		Thread	M20 x 1.5	
Gland	inside		Gland	inside	

Application	Coding	Color
250V	Protection class II L, N	gray black
Extra-low voltage	e.g. LED serial, 24V 1, 2	signal brown
	e.g. LED parallel, AS-i +, -	pebble gray

Part No.	Part No.
96.024.2053.0	96.024.6053.0
96.024.2053.1	96.024.6053.1
96.024.2051.4	96.024.6051.4
96.024.2050.8	96.024.6050.8

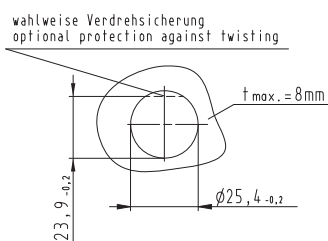
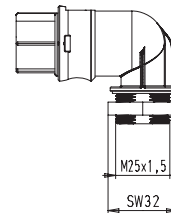
¹⁾ With wire protection available on request

M25 device connector angled 90°, modular

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside. 90° angle.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



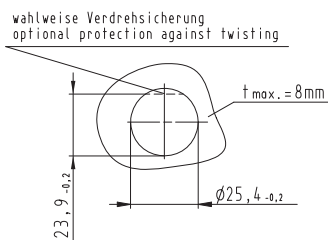
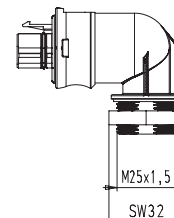
with spring clamp connection			with screw connection ¹⁾		
Wire	mm ²	Ferrules	Wire	mm ²	Ferrules
rigid	0.5 – 2.5		rigid		
fine-stranded	0.5 – 1.5	with ferrules	fine-stranded	0.75 – 6.0	without ferrules
stranded	0.75 – 1.5	with ferrules	stranded		without ferrules
Term. poles	2		Term. poles	1	
Thread	M25 x 1.5		Thread	M25 x 1.5	
Gland	inside		Gland	inside	
Part No.			Part No.		
96.023.2253.0			96.023.6253.0		
96.023.2253.1			96.023.6253.1		
96.023.2251.4			96.023.6251.4		
96.023.2250.8			96.023.6250.8		

Application	Coding	Color
250V	Protection class II L, N	gray black
Extra-low voltage	e.g. LED serial, 24V 1, 2	signal brown
	e.g. LED parallel, AS-i +, -	pebble gray

Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside. With locking device. 90° angle.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



with spring clamp connection			with screw connection ¹⁾		
Wire	mm ²	Ferrules	Wire	mm ²	Ferrules
rigid	0.5 – 2.5		rigid		
fine-stranded	0.5 – 1.5	with ferrules	fine-stranded	0.75 – 6.0	without ferrules
stranded	0.75 – 1.5	with ferrules	stranded		without ferrules
Term. poles	2		Term. poles	1	
Thread	M25 x 1.5		Thread	M25 x 1.5	
Gland	inside		Gland	inside	
Part No.			Part No.		
96.024.2253.0			96.024.6253.0		
96.024.2253.1			96.024.6253.1		
96.024.2251.4			96.024.6251.4		
96.024.2250.8			96.024.6250.8		

Application	Coding	Color
250V	Protection class II L, N	gray black
Extra-low voltage	e.g. LED serial, 24V 1, 2	signal brown
	e.g. LED parallel, AS-i +, -	pebble gray

¹⁾ With wire protection available on request

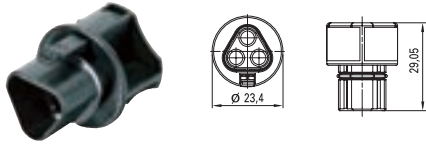
Accessories – Cover pieces

Cover pieces

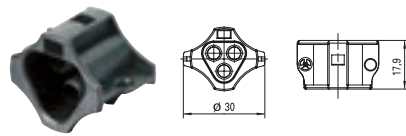
For the safe closure of female and male connectors.

With mounting strap for snapping onto plug connectors and device connectors

for female



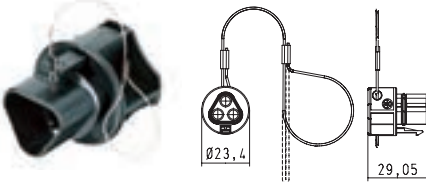
for male



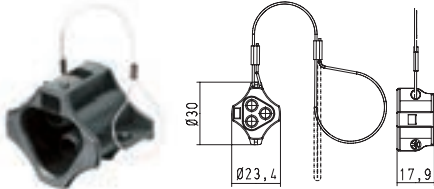
not captive against loss

Color	for female	for male
■ light grey	Part No. Z5.564.4553.0	Part No. 05.564.4453.0
■ black	Z5.564.4553.1	05.564.4453.1

for female



for male



captive against loss

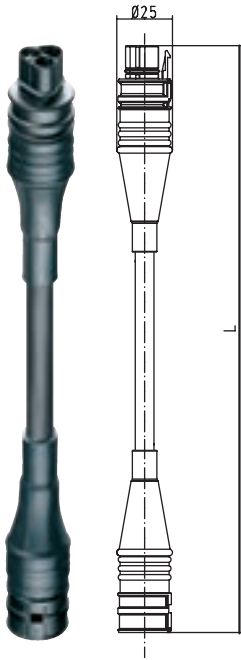
Color	for female	for male
■ light grey	Part No. 99.413.6205.2	Part No. 99.415.6205.2
■ black	99.414.6205.2	99.416.6205.2

Cable assemblies

Cable 2 x 1.5 mm²; 16 A

Rated values			Pull relief	
Wire ends (open cable end)	ultrason. welded		shrinkage tube	
Sheath strip length (open cable end)	35 mm		Interlock	
Wire strip length (open cable end)	9 mm		Color cable	
			Color shrinkage tube	
			black	
			black	

Connection cables female – male



Protection class II 250V

 N = BU, L = BN

Extra-low voltage e.g. LED serial, 24V

 1 = BU, 2 = BN

Extra-low voltage e.g. LED parallel, AS-i

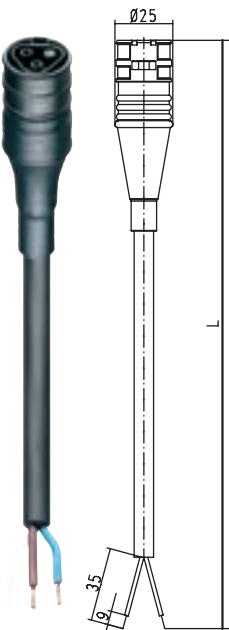
 - = BU, + = BN

Cable	Length m	Part No.	Part No.	Part No.
PVC cable H05VV-F containing halogen	1	96.222.1000.1	96.222.1002.4	on request
	2	96.222.2000.1	96.222.2002.4	
	3	96.222.3000.1	96.222.3002.4	
	4	96.222.4000.1	96.222.4002.4	
	5	96.222.5000.1	96.222.5002.4	
	6	96.222.6000.1	96.222.6002.4	
	7	96.222.7000.1	96.222.7002.4	
	8	96.222.8000.1	96.222.8002.4	

Cable	Length m	Part No.	Part No.	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1	96.222.1030.1	96.222.1032.4	on request
	2	96.222.2030.1	96.222.2032.4	
	3	96.222.3030.1	96.222.3032.4	
	4	96.222.4030.1	96.222.4032.4	
	5	96.222.5030.1	96.222.5032.4	
	6	96.222.6030.1	96.222.6032.4	
	7	96.222.7030.1	96.222.7032.4	
	8	96.222.8030.1	96.222.8032.4	

2-pole connectors – one pole is not configured.

Connection cables female – free end



Protection class II 250V

 N = BU, L = BN

Extra-low voltage e.g. LED serial, 24V

 1 = BU, 2 = BN

Extra-low voltage e.g. LED parallel, AS-i

 - = BU, + = BN

Cable	Length m	Part No.	Part No.	Part No.
PVC cable H05VV-F containing halogen	1	96.222.1003.1	96.222.1007.4	on request
	2	96.222.2003.1	96.222.2007.4	
	3	96.222.3003.1	96.222.3007.4	
	4	96.222.4003.1	96.222.4007.4	
	5	96.222.5003.1	96.222.5007.4	
	6	96.222.6003.1	96.222.6007.4	
	7	96.222.7003.1	96.222.7007.4	
	8	96.222.8003.1	96.222.8007.4	

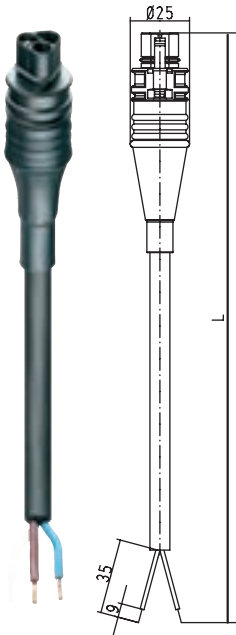
Cable	Length m	Part No.	Part No.	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1	96.222.1033.1	96.222.1037.4	on request
	2	96.222.2033.1	96.222.2037.4	
	3	96.222.3033.1	96.222.3037.4	
	4	96.222.4033.1	96.222.4037.4	
	5	96.222.5033.1	96.222.5037.4	
	6	96.222.6033.1	96.222.6037.4	
	7	96.222.7033.1	96.222.7037.4	
	8	96.222.8033.1	96.222.8037.4	

2-pole connectors – one pole is not configured.

Cable assemblies

Cable 2 x 1.5 mm²; 16 A

Connection cables male – free end



Protection class II
250V



Extra-low voltage e.g.
LED serial, 24V



Extra-low voltage e.g.
LED parallel, AS-i



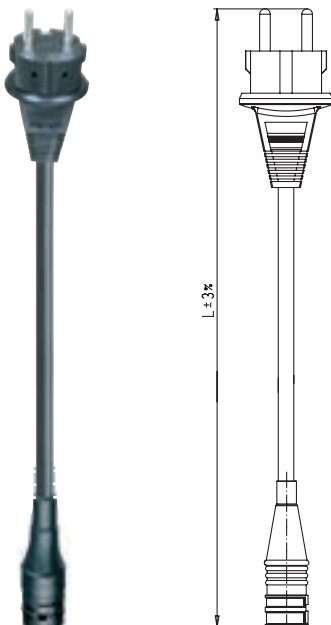
Cable	Length m	Part No.	Part No.	Part No.
PVC cable H05VV-F containing halogen	1	96.222.1004.1	96.222.1008.4	on request
	2	96.222.2004.1	96.222.2008.4	
	3	96.222.3004.1	96.222.3008.4	
	4	96.222.4004.1	96.222.4008.4	
	5	96.222.5004.1	96.222.5008.4	
	6	96.222.6004.1	96.222.6008.4	
	7	96.222.7004.1	96.222.7008.4	
	8	96.222.8004.1	96.222.8008.4	

Cable	Length m	Part No.	Part No.	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1	96.222.1034.1	96.222.1038.4	on request
	2	96.222.2034.1	96.222.2038.4	
	3	96.222.3034.1	96.222.3038.4	
	4	96.222.4034.1	96.222.4038.4	
	5	96.222.5034.1	96.222.5038.4	
	6	96.222.6034.1	96.222.6038.4	
	7	96.222.7034.1	96.222.7038.4	
	8	96.222.8034.1	96.222.8038.4	

2-pole connectors – one pole is not configured.

Power Connection cable

Male: european standard (SKII) – female: **RST**[®]



Protection class II
250V
Color: black

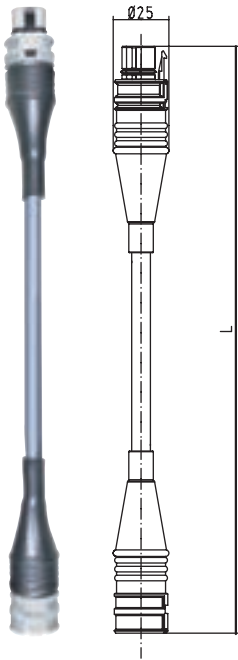
Cable	Length m	Part No..
Rubber-sheathed cable H07RN-F containing halogen	1.5	99.708.0000.7
	2.5	99.709.0000.7

Cable assemblies

Cable 2 x 1.5 mm²; 16 A

Rated values		Pull relief	shrinkage tube
Wire ends (open cable end)	ultrason. welded	Interlock	integrated
Sheath strip length (open cable end)	35 mm	Color cable	gray
Wire strip length (open cable end)	9 mm	Color shrinkage tube	black

Connection cables female – male



AS-i, 24V auxiliary voltage, LED

Extra-low voltage e.g.
LED parallel, AS-i

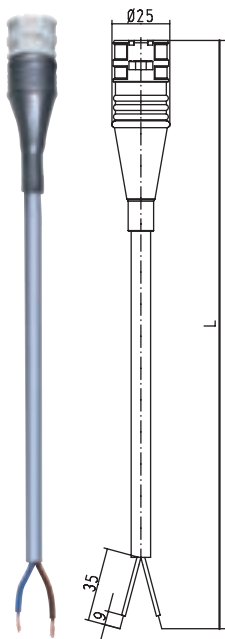
Extra-low voltage e.g.
LED serial, 24V



Cable	Length m	Part No.	Part No.
PVC cable Ölflex Classic 100 containing halogen	1	96.222.1092.8	96.222.1092.4
	2	96.222.2092.8	96.222.2092.4
	3	96.222.3092.8	96.222.3092.4
	4	96.222.4092.8	96.222.4092.4
	5	96.222.5092.8	96.222.5092.4
	6	96.222.6092.8	96.222.6092.4
	7	96.222.7092.8	96.222.7092.4
	8	96.222.8092.8	96.222.8092.4

2-pole connectors – one pole is not configured.

Connection cables female – free end



AS-i, 24V auxiliary voltage, LED

Extra-low voltage e.g.
LED parallel, AS-i

Extra-low voltage e.g.
LED serial, 24V



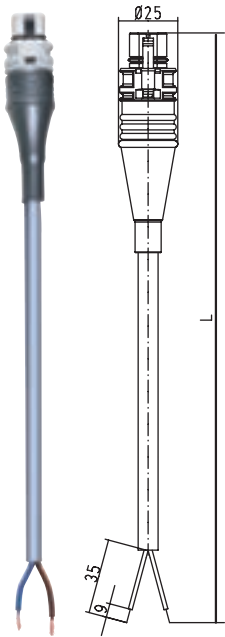
Cable	Length m	Part No.	Part No.
PVC cable Ölflex Classic 100 containing halogen	1	96.222.1097.8	96.222.1097.4
	2	96.222.2097.8	96.222.2097.4
	3	96.222.3097.8	96.222.3097.4
	4	96.222.4097.8	96.222.4097.4
	5	96.222.5097.8	96.222.5097.4
	6	96.222.6097.8	96.222.6097.4
	7	96.222.7097.8	96.222.7097.4
	8	96.222.8097.8	96.222.8097.4

2-pole connectors – one pole is not configured.

Cable assemblies

Cable 2 x 1.5 mm²; 16 A

Connection cables male – free end



AS-i, 24V auxiliary voltage, LED

Extra-low voltage e.g.
LED parallel, AS-i



Extra-low voltage e.g.
LED serial, 24V



Cable	Length m	Part No.	Part No.
PVC cable Ölflex Classic 100 containing halogen	1	96.222.1098.8	96.222.1098.4
	2	96.222.2098.8	96.222.2098.4
	3	96.222.3098.8	96.222.3098.4
	4	96.222.4098.8	96.222.4098.4
	5	96.222.5098.8	96.222.5098.4
	6	96.222.6098.8	96.222.6098.4
	7	96.222.7098.8	96.222.7098.4
	8	96.222.8098.8	96.222.8098.4

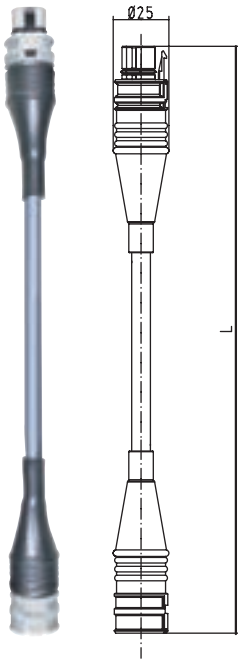
2-pole connectors – one pole is not configured.

Cable assemblies

Cable 2 x 2.5 mm²; 20 A

Rated values		Pull relief	shrinkage tube
Wire ends (open cable end)	ultrason. welded	Interlock	integrated
Sheath strip length (open cable end)	35 mm	Color cable	gray
Wire strip length (open cable end)	9 mm	Color shrinkage tube	black

Connection cables female – male



AS-i, 24V auxiliary voltage, LED

Extra-low voltage e.g. LED parallel, AS-i

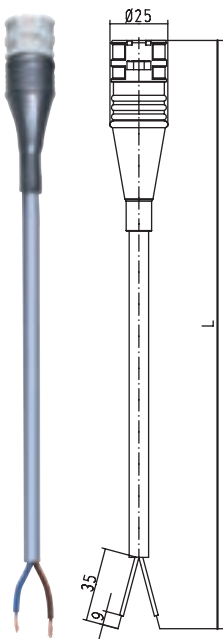
Extra-low voltage e.g. LED serial, 24V



Cable	Length m	Part No.	Part No.
PVC cable Ölflex Classic 100 containing halogen	1	96.223.1092.8	96.223.1092.4
	2	96.223.2092.8	96.223.2092.4
	3	96.223.3092.8	96.223.3092.4
	4	96.223.4092.8	96.223.4092.4
	5	96.223.5092.8	96.223.5092.4
	6	96.223.6092.8	96.223.6092.4
	7	96.223.7092.8	96.223.7092.4
	8	96.223.8092.8	96.223.8092.4

2-pole connectors – one pole is not configured.

Connection cables female – free end



AS-i, 24V auxiliary voltage, LED

Extra-low voltage e.g. LED parallel, AS-i

Extra-low voltage e.g. LED serial, 24V



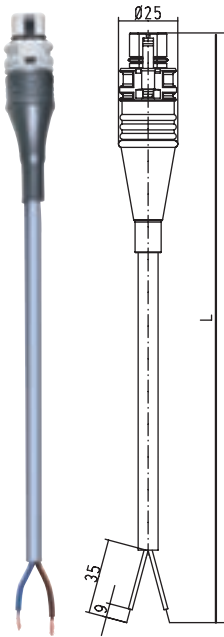
Cable	Length m	Part No.	Part No.
PVC cable Ölflex Classic 100 containing halogen	1	96.223.1097.8	96.223.1097.4
	2	96.223.2097.8	96.223.2097.4
	3	96.223.3097.8	96.223.3097.4
	4	96.223.4097.8	96.223.4097.4
	5	96.223.5097.8	96.223.5097.4
	6	96.223.6097.8	96.223.6097.4
	7	96.223.7097.8	96.223.7097.4
	8	96.223.8097.8	96.223.8097.4

2-pole connectors – one pole is not configured.

Cable assemblies

Cable 2 x 2.5 mm²; 20 A

Connection cables male – free end



AS-i, 24V auxiliary voltage, LED

Extra-low voltage e.g.
LED parallel, AS-i



Extra-low voltage e.g.
LED serial, 24V



Cable	Length m	Part No.	Part No.
PVC cable Ölflex Classic 100 containing halogen	1	96.223.1098.8	96.223.1098.4
	2	96.223.2098.8	96.223.2098.4
	3	96.223.3098.8	96.223.3098.4
	4	96.223.4098.8	96.223.4098.4
	5	96.223.5098.8	96.223.5098.4
	6	96.223.6098.8	96.223.6098.4
	7	96.223.7098.8	96.223.7098.4
	8	96.223.8098.8	96.223.8098.4

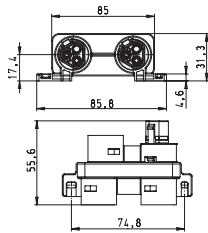
2-pole connectors – one pole is not configured.

Distribution block

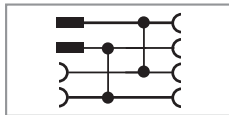
Distribution block 1I/3O (parallel connection), for protection class II, AS-i or LEDs

Interlock

Yes



Circuit diagram



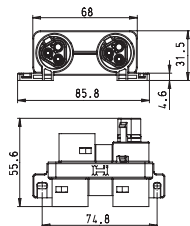
with fastening option

Color	Application	Pole marking	Input	Outputs	Part No.
■ black	250 V	L, N	1	2	96.020.0153.1
■ light grey	250 V	L, N	1	2	96.020.0153.0
■ signal brown	Extra-low voltage	1, 2	1	2	96.020.0151.4
■ pebble gray	Extra-low voltage	+, -	1	2	96.020.0150.8

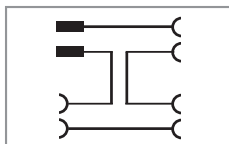
without fastening option

Color	Application	Pole marking	Input	Outputs	Part No.
■ black	250 V	L, N	1	2	96.020.0253.1
■ light grey	250 V	L, N	1	2	96.020.0253.0
■ signal brown	Extra-low voltage	1, 2	1	2	96.020.0251.4
■ pebble gray	Extra-low voltage	+, -	1	2	96.020.0250.8

Distribution block 1 I/3 O (series connection) for power LEDs



Circuit diagram



with fastening option

Color	Application	Pole marking	Input	Outputs	Part No.
■ signal brown	Extra-low voltage	1, 2			99.910.0000.7

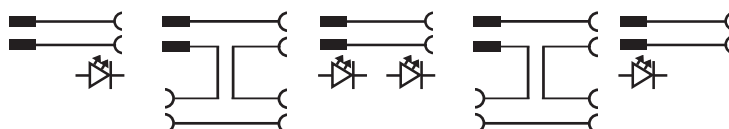


jumper plug

Color	Application	Pole marking	Input	Outputs	Part No.
■ signal brown	Extra-low voltage	1, 2			99.537.0000.7

For jumpering of unused slots on the series distribution unit

e.g. circuit diagrams



Distribution unit

RST compact distribution unit 1I/20

Dimensions 104 x 162 x 57.2 mm

Fitted as required with
Pre-wired with
Mounting option

M25 device connectors 2-pole
2.5 mm² (halogen free)
Yes



Circuit diagram



Color	Input	Outputs	Part No.
■ black	1, RST20i2	2, RST20i2	99.942.0000.0

RST compact distribution unit 1I/30

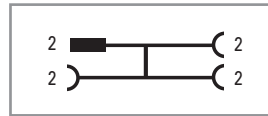
Dimensions 104 x 162 x 57.2 mm

Fitted as required with
Pre-wired with
Mounting option

M25 device connectors 2-pole
2.5 mm² (halogen free)
Yes



Circuit diagram



Color	Input	Outputs	Part No.
■ gray	1, RST20i2	3, RST20i2	99.990.0000.7
■ black	1, RST20i2	3, RST20i2	Upon request

RST multi distribution unit 1I/70

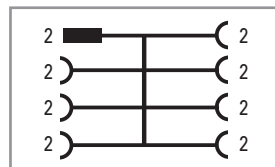
Dimensions 104 x 162 x 96 mm

Fitted as required with
Pre-wired with
Fuses

M25 device connectors 2-pole
2,5 mm² (halogen free)
6.3 or 10A can be integrated



Circuit diagram

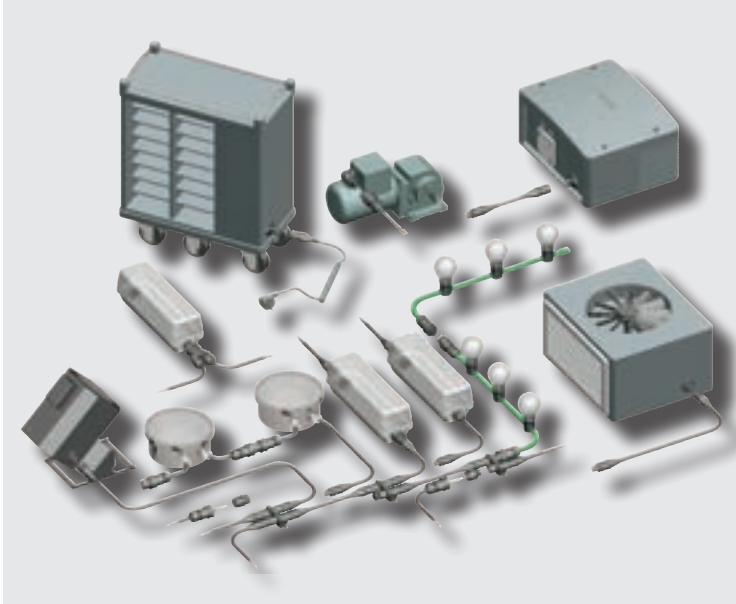


Color	Input	Outputs	Part No.
■ brown	1, RST20i2	7, RST20i2	99.946.0000.7
■ black	1, RST20i2	7, RST20i2	99.988.0000.7



Standard variant for network applications – polyphase systems, switching applications 250 V and low voltage

Application example



General

With the 3-pole connectors, there are four available variants: the standard variant for general network applications, one for extra-low voltage up to 50V with ground conductor, one for switching applications up to 250V and a green coding for applications in polyphase systems.

All connectors are mechanically coded. This means that only associated pairs of male and female can be connected with the correct polarity. You therefore have the security of a clear separation of different applications without having to redo any incorrect connections.

The color of the connectors indicates the links that belong together.

Coding

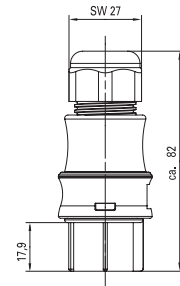
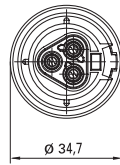
For daily updates visit the website at http://eshop.wieland-electric.com . Assembly instructions and other technical information can be found in the Technical Data or in eShop.					Application				
					Power	Power	Extra-low voltage	Switch function	
Mechanical coding, for example					250V L, N, ⊕	250/400V 1, 2, ⊕	signals bus 50V 1, 2, ⊕	250V 1, 2, 3	
Name	Description	Connection style	Strain relief housing	Connection points per pole	gray	black	green	brown	light blue
Connector	1 x cable entry	Screw Spring clamp Crimp	yes	1	✓	✓	✓	✓	✓
	2 x cable entry	Screw Spring clamp Crimp	yes	2	✓	✓	✓		
Distribution units	Distribution block 11/30				✓	✓	✓	✓	✓
	RST compact distribution unit / multi-distribution unit				on request	on request	on request	on request	on request
	Individual distribution box				on request	on request	on request	on request	on request
Device connectors	M16 device connector, modular, straight				✓	✓	✓	✓	✓
	M16 device connector, modular, angled 7°				✓	✓	✓	✓	✓
	M25 device connector, standard				✓	✓	✓	✓	✓
	M20 device connector, standard				✓	✓	✓	✓	✓
	M20 device connector, modular, angled				✓	✓	✓	✓	✓
Cable assemblies	M25 device connector, modular, angled				✓	✓	✓	✓	✓
	Connection cable Male – Free end	pre-assembled	pre-assembled	pre-assembled	✓	✓	✓	✓	
	Connection cable Female – Free end	pre-assembled	pre-assembled	pre-assembled	✓	✓	✓	✓	
	Extension cable Male – Female	pre-assembled	pre-assembled	pre-assembled	✓	✓	✓	✓	
	Connection cable Schuko – Female	pre-assembled	pre-assembled	pre-assembled	✓	✓			

Connectors, straight for cables Ø 6 – 10 mm and 10 – 14 mm

Female connector

Unmounted with cable gland.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



with spring clamp conn.		with screw connection ¹⁾		with crimp connection	
Wire	mm ²	Wire	mm ²	Wire	mm ²
rigid	0.5 – 2.5	rigid		fine-stranded	0.75 – 4.0
fine-stranded	0.5 – 1.5	fine-stranded	0.75 – 6.0 ²⁾		
stranded	0.75 – 1.5	stranded			

Application	Coding	Cable diameter in mm	Color	Part No.	Part No.	Part No.
Power 250 V		6 – 10	gray	96.031.0053.0	96.031.4053.0	96.131.0053.0
				96.031.0053.1	96.031.4053.1	96.131.0053.1
		10 – 14	gray	96.031.0153.0	96.031.4153.0	96.131.0153.0
				96.031.0153.1	96.031.4153.1	96.131.0153.1
Power 250/400 V		6 – 10	green	96.031.0055.7	96.031.4055.7	
				96.031.0155.7	96.031.4155.7	
Extra-low voltage		6 – 10	brown	96.031.0051.4	96.031.4051.4	
				96.031.0151.4	96.031.4151.4	
Switch.func. 250 V		6 – 10	light blue	96.031.0053.9	96.031.4053.9	
				96.031.0153.9	96.031.4153.9	

Fine-stranded and stranded wires **only with** ferrules (see accessories)

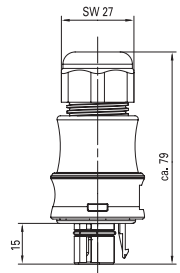
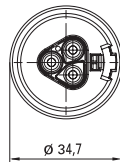
Fine-stranded and stranded wires **without** ferrules

Contacts separately under Accessories.

Male connector

Unmounted with cable gland and locking device.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



with spring clamp conn.		with screw connection ¹⁾		with crimp connection	
Wire	mm ²	Wire	mm ²	Wire	mm ²
rigid	0.5 – 2.5	rigid		fine-stranded	0.75 – 4.0
fine-stranded	0.5 – 1.5	fine-stranded	0.75 – 6.0 ²⁾		
stranded	0.75 – 1.5	stranded			

Application	Coding	Cable diameter in mm	Color	Part No.	Part No.	Part No.
Power 250 V		6 – 10	gray	96.032.0053.0	96.032.4053.0	96.132.0053.0
				96.032.0053.1	96.032.4053.1	96.132.0053.1
		10 – 14	gray	96.032.0153.0	96.032.4153.0	96.132.0153.0
				96.032.0153.1	96.032.4153.1	96.132.0153.1
Power 250/400 V		6 – 10	green	96.032.0055.7	96.032.4055.7	
				96.032.0155.7	96.032.4155.7	
Extra-low voltage		6 – 10	brown	96.032.0051.4	96.032.4051.4	
				96.032.0151.4	96.032.4151.4	
Switch.func. 250 V		6 – 10	light blue	96.032.0053.9	96.032.4053.9	
				96.032.0153.9	96.032.4153.9	

Fine-stranded and stranded wires **only with** ferrules (see accessories)

Fine-stranded and stranded wires **without** ferrules

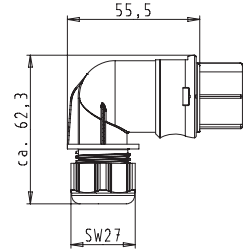
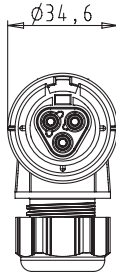
Contacts separately under Accessories.

Connectors, angled 90° for cables Ø 6 – 10 mm and 10 – 14 mm

Female connector

Unmounted with cable gland.
90° angle.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



with spring clamp conn.

Wire	mm ²
rigid	0.5 – 2.5
fine-stranded	0.5 – 1.5
stranded	0.75 – 1.5

with screw connection¹⁾

Wire	mm ²
rigid	
fine-stranded	0.75 – 6.0 ²⁾
stranded	

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0

Application	Coding	Cable diameter in mm	Color	Part No.	Part No.	Part No.
Power 250 V	L, N, PE	6 – 10	gray	96.033.0053.0	96.033.4053.0	96.133.0053.0
		10 – 14	black	96.033.0053.1	96.033.4053.1	96.133.0053.1
Power 250/400 V	1, 2, PE	6 – 10	gray	96.033.0153.0	96.033.4153.0	96.133.0153.0
		10 – 14	black	96.033.0153.1	96.033.4153.1	96.133.0153.1
Extra-low voltage	1, 2, PE	6 – 10	green	96.033.0055.7	96.033.4055.7	
		10 – 14	green	96.033.0155.7	96.033.4155.7	
Switch.func. 250 V	1, 2, 3	6 – 10	brown	96.033.0051.4	96.033.4051.4	
		10 – 14	brown	96.033.0151.4	96.033.4151.4	
Switch.func. 250 V	1, 2, 3	6 – 10	light blue	96.033.0053.9	96.033.4053.9	
		10 – 14	light blue	96.033.0153.9	96.033.4153.9	

Fine-stranded and stranded wires **only with** ferrules (see accessories)

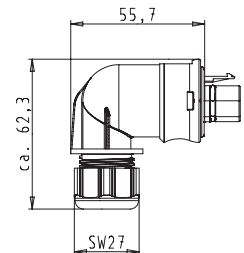
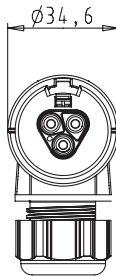
Fine-stranded and stranded wires **without** ferrules

Contacts separately under Accessories.

Male connector

Unmounted with cable gland and locking device. 90° angle.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



with spring clamp conn.

Wire	mm ²
rigid	0.5 – 2.5
fine-stranded	0.5 – 1.5
stranded	0.75 – 1.5

with screw connection¹⁾

Wire	mm ²
rigid	
fine-stranded	0.75 – 6.0 ²⁾
stranded	

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0

Application	Coding	Cable diameter in mm	Color	Part No.	Part No.	Part No.
Power 250 V	N, L, PE	6 – 10	gray	96.034.0053.0	96.034.4053.0	96.134.0053.0
		10 – 14	black	96.034.0053.1	96.034.4053.1	96.134.0053.1
Power 250/400 V	2, 1, PE	6 – 10	gray	96.034.0153.0	96.034.4153.0	96.134.0153.0
		10 – 14	black	96.034.0153.1	96.034.4153.1	96.134.0153.1
Extra-low voltage	2, 1, PE	6 – 10	green	96.034.0055.7	96.034.4055.7	
		10 – 14	green	96.034.0155.7	96.034.4155.7	
Switch.func. 250 V	2, 1	6 – 10	brown	96.034.0051.4	96.034.4051.4	
		10 – 14	brown	96.034.0151.4	96.034.4151.4	
Switch.func. 250 V	2, 1, 3	6 – 10	light blue	96.034.0053.9	96.034.4053.9	
		10 – 14	light blue	96.034.0153.9	96.034.4153.9	

Fine-stranded and stranded wires **only with** ferrules (see accessories)

Fine-stranded and stranded wires **without** ferrules

Contacts separately under Accessories.

¹⁾ With wire protection available on request

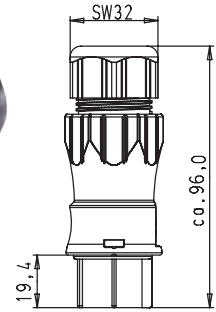
²⁾ With 6.0 mm² wires the pull and bending forces at the connector must be taken into consideration and compensated by suitable measures if required

Connectors, straight for cables Ø 13 – 18 mm

Female connector

Unmounted with cable gland.

See Technical Data for sheath and insulation strip lengths.



with screw connection¹⁾

Wire	mm ²	
rigid		
fine-stranded	0.75 – 6.0 ²⁾	without ferrules
stranded		without ferrules

with crimp connection

Wire	mm ²	
fine-stranded	0.75 – 4.0	

Application	Coding	Cable diameter in mm	Color
Power 250 V	L, N, PE	13 – 18	gray black
Power 250/400 V	1, 2, PE	13 – 18	green

Part No.
96.031.4553.0
96.031.4553.1
96.031.4555.7

Part No.
96.131.4553.0
96.131.4553.1

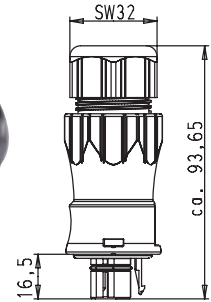
Fine-stranded and stranded wires **without** ferrules

Contacts separately under Accessories.

Male connector

Unmounted with cable gland and locking device.

See Technical Data for sheath and insulation strip lengths.



with screw connection¹⁾

Wire	mm ²	
rigid		
fine-stranded	0.75 – 6.0 ²⁾	without ferrules
stranded		without ferrules

with crimp connection

Wire	mm ²	
fine-stranded	0.75 – 4.0	

Application	Coding	Cable diameter in mm	Color
Power 250 V	N, L, PE	13 – 18	gray black
Power 250/400 V	2, 1, PE	13 – 18	green

Part No.
96.032.4553.0
96.032.4553.1
96.032.4555.7

Part No.
96.132.4553.0
96.132.4553.1

Fine-stranded and stranded wires **without** ferrules

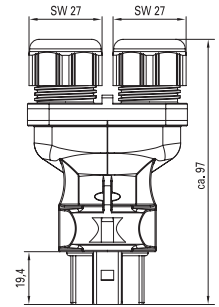
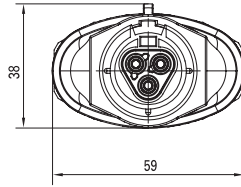
Contacts separately under Accessories.

Splitter connector, straight for cables Ø 6 – 10 mm and 10 – 14 mm

Female connector

Unmounted with cable gland.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



with spring clamp connection

Leitungen	mm ²	
rigid	0.5 – 2.5	
fine-stranded	0.5 – 1.5	with ferrules
stranded	0.75 – 1.5	with ferrules

with screw connection¹⁾

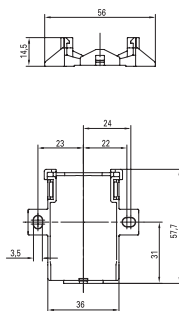
Leitungen	mm ²	
rigid		
fine-stranded	0.75 – 2.5	
stranded		

Application	Coding	Cable diameter in mm	Color	Part No.	Part No.
Power 250 V		6 – 10	gray black	96.031.0253.0 96.031.0253.1	96.031.4253.0 96.031.4253.1
		10 – 14	gray black	96.031.0353.0 96.031.0353.1	96.031.4353.0 96.031.4353.1
Power 250/400 V		6 – 10	green	96.031.0255.7 96.031.0355.7	96.031.4255.7 96.031.4355.7
		10 – 14			
Switch.func. 250 V		10 – 14	light blue	96.031.0353.9	

Fine-stranded and stranded wires **only with** ferrules (see accessories)

Fine-stranded and stranded wires **without** ferrules

Mounting plate for splitter connectors



Color	Part No.
■ gray	01.006.1553.0
■ black	01.006.1553.1

¹⁾ With wire protection available on request

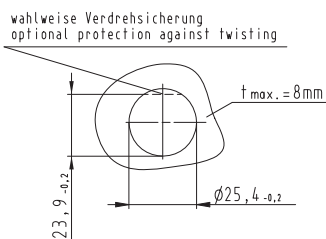
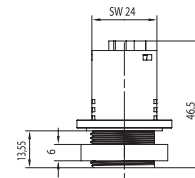
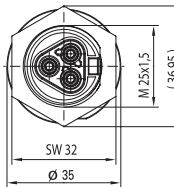
M25 device connector straight, standard

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from outside.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.

For the spacer rings for unlocking the device connectors, see Accessories.



with spring clamp conn.

Wire	mm ²
rigid	0.5 – 2.5
fine-stranded	0.5 – 1.5
stranded	0.75 – 1.5
Term. poles	2
Thread	M25 x 1.5
Gland	outside

with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 6.0
stranded	
Term. poles	1
Thread	M25 x 1.5
Gland	outside

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M25 x 1.5
Gland	outside

Application	Coding	Color
Power 250 V	L, N, ⊕	gray black
Power 250/400 V	1, 2, ⊕	green
Extra-low voltage	1, 2, ⊕	brown
Switch.func. 250 V	1, 2, 3	light blue

Part No.
96.031.1053.0
96.031.1053.1
96.031.1055.7
96.031.1051.4
96.031.1053.9

Part No.
96.031.5053.0
96.031.5053.1
96.031.5055.7
96.031.5051.4
96.031.5053.9

Part No.
96.131.1053.0
96.131.1053.1

Fine-stranded and stranded wires **only with** ferrules (see accessories)

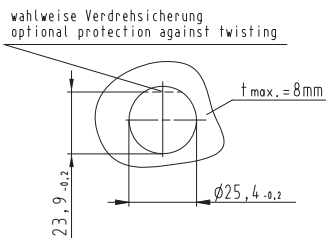
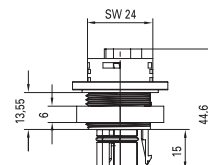
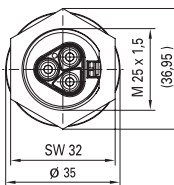
Fine-stranded and stranded wires **without** ferrules

Contacts separately under Accessories.

Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from outside. With locking device.

See the Technical Data for insulation strip lengths.



with spring clamp conn.

Wire	mm ²
rigid	0.5 – 2.5
fine-stranded	0.5 – 1.5
stranded	0.75 – 1.5
Term. poles	2
Thread	M25 x 1.5
Gland	outside

with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 6.0
stranded	
Term. poles	1
Thread	M25 x 1.5
Gland	outside

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M25 x 1.5
Gland	outside

Application	Coding	Color
Power 250 V	N, L, ⊕	gray black
Power 250/400 V	2, 1, ⊕	green
Extra-low voltage	2, 1, ⊕	brown
Switch.func. 250 V	2, 1, 3	light blue

Part No.
96.032.1053.0
96.032.1053.1
96.032.1055.7
96.032.1051.4
96.032.1053.9

Part No.
96.032.5053.0
96.032.5053.1
96.032.5055.7
96.032.5051.4
96.032.5053.9

Part No.
96.132.1053.0
96.132.1053.1

Fine-stranded and stranded wires **only with** ferrules (see accessories)

Fine-stranded and stranded wires **without** ferrules

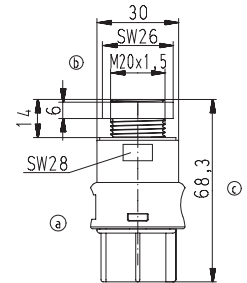
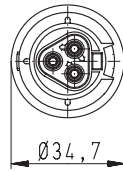
Contacts separately under Accessories.

M20 device connector straight, modular

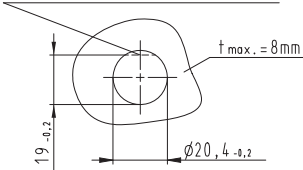
Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



wahlweise Verdrehsicherung
optional protection against twisting



with spring clamp connection

Wire	mm ²
rigid	0.5 – 2.5
fine-stranded	0.5 – 1.5
stranded	0.75 – 1.5
Term. poles	2
Thread	M20 x 1.5
Gland	inside

with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 6.0
stranded	
Term. poles	1
Thread	M20 x 1.5
Gland	inside

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M20 x 1.5
Gland	inside

Application	Coding	Color
Power 250 V	L, N, ⊕	gray black
Power 250/400 V	1, 2, ⊕	green
Extra-low voltage	1, 2, ⊕	brown
Switch.func. 250 V	1, 2, 3	light blue

Part No.
96.031.2053.0
96.031.2053.1
96.031.2055.7
96.031.2051.4
96.031.2053.9

Part No.
96.031.6053.0
96.031.6053.1
96.031.6055.7
96.031.6051.4
96.031.6053.9

Part No.
96.131.2053.0
96.131.2053.1

Fine-stranded and stranded wires **only with** ferrules (see accessories)

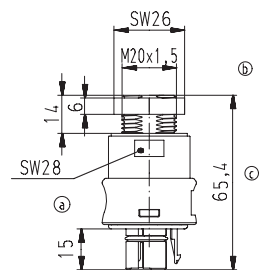
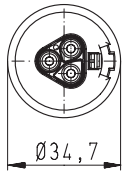
Fine-stranded and stranded wires **without** ferrules

Contacts separately under Accessories.

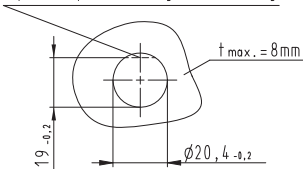
Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside. With locking device.

See the Technical Data for insulation strip lengths.



wahlweise Verdrehsicherung
optional protection against twisting



with spring clamp connection

Wire	mm ²
rigid	0.5 – 2.5
fine-stranded	0.5 – 1.5
stranded	0.75 – 1.5
Term. poles	2
Thread	M20 x 1.5
Gland	inside

with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 6.0
stranded	
Term. poles	1
Thread	M20 x 1.5
Gland	inside

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M20 x 1.5
Gland	inside

Application	Coding	Color
Power 250 V	N, L, ⊕	gray black
Power 250/400 V	2, 1, ⊕	green
Extra-low voltage	2, 1, ⊕	brown
Switch.func. 250 V	2, 1, 3	light blue

Part No.
96.032.2053.0
96.032.2053.1
96.032.2055.7
96.032.2051.4
96.032.2053.9

Part No.
96.032.6053.0
96.032.6053.1
96.032.6055.7
96.032.6051.4
96.032.6053.9

Part No.
96.132.2053.0
96.132.2053.1

Fine-stranded and stranded wires **only with** ferrules (see accessories)

Fine-stranded and stranded wires **without** ferrules

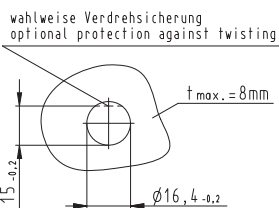
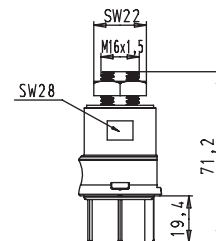
Contacts separately under Accessories.

M16 device connector straight, modular

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



with spring clamp connection		with screw connection		with crimp connection	
Wire	mm ²	Wire	mm ²	Wire	mm ²
rigid	0.5 – 2.5	rigid		fine-stranded	0.75 – 4.0
fine-stranded	0.5 – 1.5	fine-stranded	0.75 – 6.0	Term. poles	1
stranded	0.75 – 1.5	stranded		Thread	M16 x 1.5
Term. poles	2	Term. poles	1	Gland	inside
Thread	M16 x 1.5	Thread	M16 x 1.5		
Gland	inside	Gland	inside		

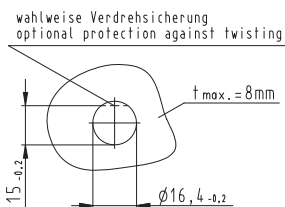
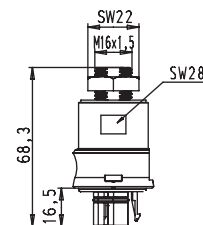
Application	Coding	Color	Part No.	Part No.	Part No.
Power 250 V	L, N, ⊕	gray black	96.031.2153.0 96.031.2153.1	96.031.6153.0 96.031.6153.1	96.131.2153.0 96.131.2153.1
Power 250/400 V	1, 2, ⊕	green	96.031.2155.7	96.031.6155.7	
Extra-low voltage	1, 2, ⊕	brown	96.031.2151.4	96.031.6151.4	
Switch.func. 250 V	1, 2, 3	light blue	96.031.2153.9	96.031.6153.9	

Fine-stranded and stranded wires **only with** ferrules (see accessories) Fine-stranded and stranded wires **without** ferrules Contacts separately under Accessories.

Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside. With locking device.

See the Technical Data for insulation strip lengths.



with spring clamp connection		with screw connection		with crimp connection	
Wire	mm ²	Wire	mm ²	Wire	mm ²
rigid	0.5 – 2.5	rigid		fine-stranded	0.75 – 4.0
fine-stranded	0.5 – 1.5	fine-stranded	0.75 – 6.0	Term. poles	1
stranded	0.75 – 1.5	stranded		Thread	M16 x 1.5
Term. poles	2	Term. poles	1	Gland	inside
Thread	M16 x 1.5	Thread	M16 x 1.5		
Gland	inside	Gland	inside		

Application	Coding	Color	Part No.	Part No.	Part No.
Power 250 V	N, L, ⊕	gray black	96.032.2153.0 96.032.2153.1	96.032.6153.0 96.032.6153.1	96.132.2153.0 96.132.2153.1
Power 250/400 V	2, 1, ⊕	green	96.032.2155.7	96.032.6155.7	
Extra-low voltage	2, 1, ⊕	brown	96.032.2151.4	96.032.6151.4	
Switch.func. 250 V	2, 1, 3	light blue	96.032.2153.9	96.032.6153.9	

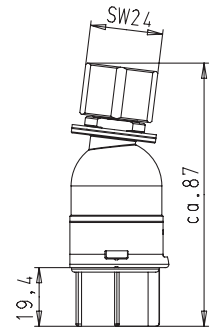
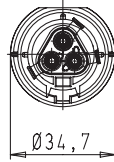
Fine-stranded and stranded wires **only with** ferrules (see accessories) Fine-stranded and stranded wires **without** ferrules Contacts separately under Accessories.

M16 device connector angled 7°, modular

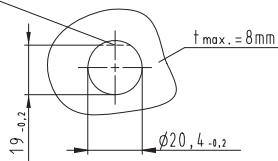
Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside. Angled 7°, thread M16.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



wahlweise Verdrehsicherung
optional protection against twisting



with spring clamp connection

Wire	mm ²
rigid	0.5 – 2.5
fine-stranded	0.5 – 1.5
stranded	0.75 – 1.5
Term. poles	2
Thread	M16 x 1.5
Gland	inside

with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 6.0
stranded	
Term. poles	1
Thread	M16 x 1.5
Gland	inside

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M16 x 1.5
Gland	inside

Application	Coding	Color
Power 250 V	L, N, ⊕	gray black
Power 250/400 V	1, 2, ⊕	green
Extra-low voltage	1, 2, ⊕	brown
Switch.func. 250 V	1, 2, 3	light blue

Part No.
96.035.2153.0
96.035.2153.1
96.035.2155.7
96.035.2151.4
96.035.2153.9

Part No.
96.035.6153.0
96.035.6153.1
96.035.6155.7
96.035.6151.4
96.035.6153.9

Part No.
96.135.2153.0
96.135.2153.1

Fine-stranded and stranded wires **only with** ferrules (see accessories)

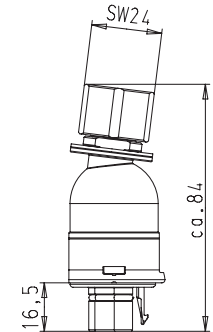
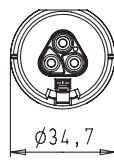
Fine-stranded and stranded wires **without** ferrules

Contacts separately under Accessories.

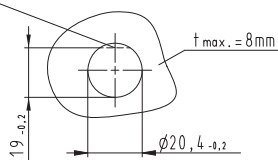
Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside. With locking device. Angled 7°, thread M16.

See the Technical Data for insulation strip lengths.



wahlweise Verdrehsicherung
optional protection against twisting



with spring clamp connection

Wire	mm ²
rigid	0.5 – 2.5
fine-stranded	0.5 – 1.5
stranded	0.75 – 1.5
Term. poles	2
Thread	M16 x 1.5
Gland	inside

with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 6.0
stranded	
Term. poles	1
Thread	M16 x 1.5
Gland	inside

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M16 x 1.5
Gland	inside

Application	Coding	Color
Power 250 V	N, L, ⊕	gray black
Power 250/400 V	2, 1, ⊕	green
Extra-low voltage	2, 1, ⊕	brown
Switch.func. 250 V	2, 1, 3	light blue

Part No.
96.036.2153.0
96.036.2153.1
96.036.2155.7
96.036.2151.4
96.036.2153.9

Part No.
96.036.6153.0
96.036.6153.1
96.036.6155.7
96.036.6151.4
96.036.6153.9

Part No.
96.136.2153.0
96.136.2153.1

Fine-stranded and stranded wires **only with** ferrules (see accessories)

Fine-stranded and stranded wires **without** ferrules

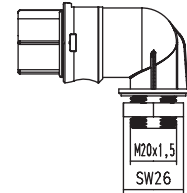
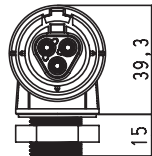
Contacts separately under Accessories.

M20 device connector angled 90°, modular

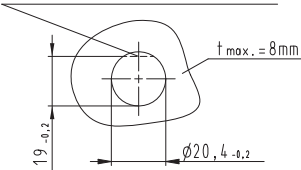
Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



wahlweise Verdrehsicherung
optional protection against twisting



with spring clamp connection		with screw connection		with crimp connection	
Wire	mm ²	Wire	mm ²	Wire	mm ²
rigid	0.5 – 2.5	rigid		fine-stranded	0.75 – 4.0
fine-stranded	0.5 – 1.5	fine-stranded	0.75 – 6.0	Term. poles	1
stranded	0.75 – 1.5	stranded		Thread	M20 x 1.5
Term. poles	2	Term. poles	1	Gland	inside
Thread	M20 x 1.5	Thread	M20 x 1.5		
Gland	inside	Gland	inside		

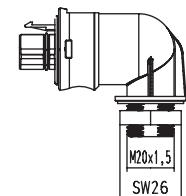
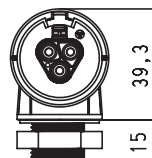
Application	Coding	Color	Part No.	Part No.	Part No.
Power 250 V	L, N, ⊕	gray black	96.033.2053.0 96.033.2053.1	96.033.6053.0 96.033.6053.1	96.133.2053.0 96.133.2053.1
Power 250/400 V	1, 2, ⊕	green	96.033.2055.7	96.033.6055.7	
Extra-low voltage	1, 2, ⊕	brown	96.033.2051.4	96.033.6051.4	
Switch.func. 250 V	1, 2, 3	light blue	96.033.2053.9	96.033.6053.9	

Fine-stranded and stranded wires **only with** ferrules (see accessories) Fine-stranded and stranded wires **without** ferrules Contacts separately under Accessories.

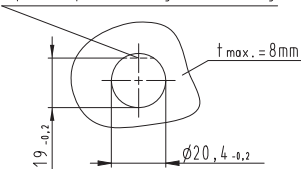
Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside. With locking device.

See the Technical Data for insulation strip lengths.



wahlweise Verdrehsicherung
optional protection against twisting



with spring clamp connection		with screw connection		with crimp connection	
Wire	mm ²	Wire	mm ²	Wire	mm ²
rigid	0.5 – 2.5	rigid		fine-stranded	0.75 – 4.0
fine-stranded	0.5 – 1.5	fine-stranded	0.75 – 6.0	Term. poles	1
stranded	0.75 – 1.5	stranded		Thread	M20 x 1.5
Term. poles	2	Term. poles	1	Gland	inside
Thread	M20 x 1.5	Thread	M20 x 1.5		
Gland	inside	Gland	inside		

Application	Coding	Color	Part No.	Part No.	Part No.
Power 250 V	N, L, ⊕	gray black	96.034.2053.0 96.034.2053.1	96.034.6053.0 96.034.6053.1	96.134.2053.0 96.134.2053.1
Power 250/400 V	2, 1, ⊕	green	96.034.2055.7	96.034.6055.7	
Extra-low voltage	2, 1, ⊕	brown	96.034.2051.4	96.034.6051.4	
Switch.func. 250 V	2, 1, 3	light blue	96.034.2053.9	96.034.6053.9	

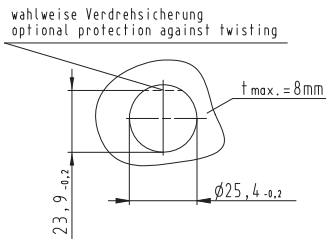
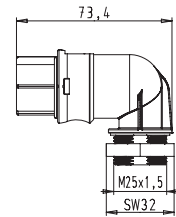
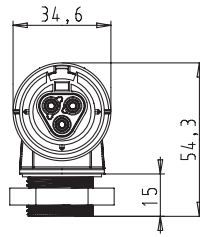
Fine-stranded and stranded wires **only with** ferrules (see accessories) Fine-stranded and stranded wires **without** ferrules Contacts separately under Accessories.

M25 device connector angled 90°, modular

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.

See the Technical Data for insulation strip lengths as well as the ferrules to be used.



with spring clamp connection		with screw connection		with crimp connection	
Wire	mm ²	Wire	mm ²	Wire	mm ²
rigid	0.5 – 2.5	rigid		fine-stranded	0.75 – 4.0
fine-stranded	0.5 – 1.5	fine-stranded	0.75 – 6.0	Term. poles	1
stranded	0.75 – 1.5	stranded		Thread	M25 x 1.5
Term. poles	2	Term. poles	1	Gland	inside
Thread	M25 x 1.5	Thread	M25 x 1.5		
Gland	inside	Gland	inside		

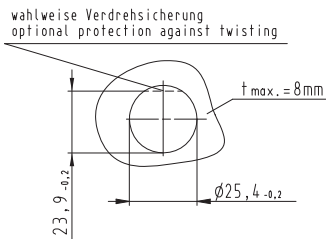
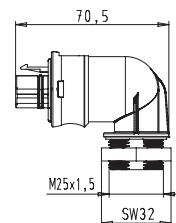
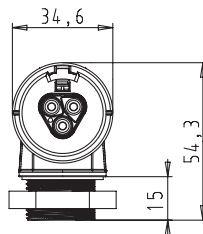
Application	Coding	Color	Part No.	Part No.	Part No.
Power 250 V	L, N, ⊕	gray black	96.033.2253.0 96.033.2253.1	96.033.6253.0 96.033.6253.1	96.133.2253.0 96.133.2253.1
Power 250/400 V	1, 2, ⊕	green	96.033.2255.7	96.033.6255.7	
Extra-low voltage	1, 2, ⊕	brown	96.033.2251.4	96.033.6251.4	
Switch.func. 250 V	1, 2, 3	light blue	96.033.2253.9	96.033.6253.9	

Fine-stranded and stranded wires **only with** ferrules (see accessories) Fine-stranded and stranded wires **without** ferrules Contacts separately under Accessories.

Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside. With locking device.

See the Technical Data for insulation strip lengths.



with spring clamp connection		with screw connection		with crimp connection	
Wire	mm ²	Wire	mm ²	Wire	mm ²
rigid	0.5 – 2.5	rigid		fine-stranded	0.75 – 4.0
fine-stranded	0.5 – 1.5	fine-stranded	0.75 – 6.0	Term. poles	1
stranded	0.75 – 1.5	stranded		Thread	M25 x 1.5
Term. poles	2	Term. poles	1	Gland	inside
Thread	M25 x 1.5	Thread	M25 x 1.5		
Gland	inside	Gland	inside		

Application	Coding	Color	Part No.	Part No.	Part No.
Power 250 V	N, L, ⊕	gray black	96.034.2253.0 96.034.2253.1	96.034.6253.0 96.034.6253.1	96.134.2253.0 96.134.2253.1
Power 250/400 V	2, 1, ⊕	green	96.034.2255.7	96.034.6255.7	
Extra-low voltage	2, 1, ⊕	brown	96.034.2251.4	96.034.6251.4	
Switch.func. 250 V	2, 1, 3	light blue	96.034.2253.9	96.034.6253.9	

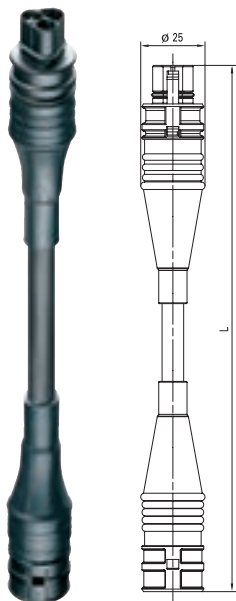
Fine-stranded and stranded wires **only with** ferrules (see accessories) Fine-stranded and stranded wires **without** ferrules Contacts separately under Accessories.

Cable assemblies

Cable 3 x 1.5 mm²; 16 A

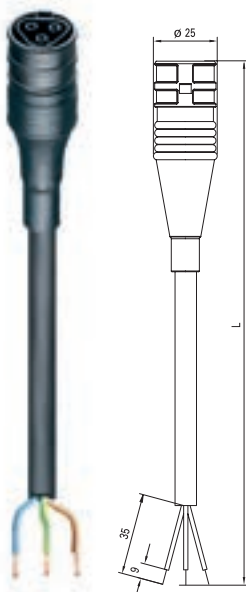
Rated values			Pull relief	
Wire ends	(open cable end)	ultrason. welded	shrinkage tube	
Sheath strip length	(open cable end)	35 mm	Interlock	
Wire strip length	(open cable end)	9 mm	Color cable	
			Color shrinkage tube	
			black	

Connection cables female – male



Cable	Length m	Power 250V		Power 250V / 400V		Switching application 250V	
		Part No.	Part No.	Part No.	Part No.	3 = BN	2 = BU
PVC cable H05VV-F containing halogen	1	96.232.1000.1	96.232.1001.7				
	2	96.232.2000.1	96.232.2001.7				
	3	96.232.3000.1	96.232.3001.7				
	4	96.232.4000.1	96.232.4001.7				
	5	96.232.5000.1	96.232.5001.7				
	6	96.232.6000.1	96.232.6001.7				
	7	96.232.7000.1	96.232.7001.7				
	8	96.232.8000.1	96.232.8001.7				
Rubber-sheathed cable H07RN-F containing halogen	1	96.232.1030.1	96.232.1031.7				
	2	96.232.2030.1	96.232.2031.7				
	3	96.232.3030.1	96.232.3031.7				
	4	96.232.4030.1	96.232.4031.7				
	5	96.232.5030.1	96.232.5031.7				
	6	96.232.6030.1	96.232.6031.7				
	7	96.232.7030.1	96.232.7031.7				
	8	96.232.8030.1	96.232.8031.7				
Rubber-sheathed cable H07RN-F enhanced version halogen-free	1	96.232.1050.1					
	2	96.232.2050.1					
	3	96.232.3050.1					
	4	96.232.4050.1					
	5	96.232.5050.1					
	6	96.232.6050.1					
	7	96.232.7050.1					
	8	96.232.8050.1					

Connection cables female – free end

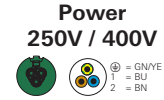
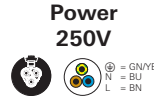
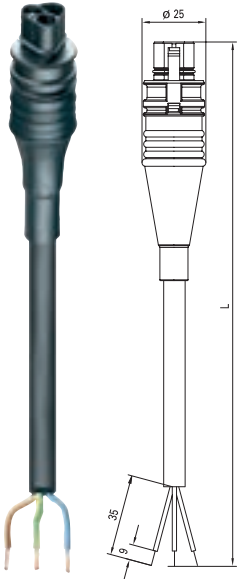


Cable	Length m	Power 250V		Power 250V / 400V		Switching application 250V	
		Part No.	Part No.	Part No.	Part No.	3 = BN	2 = BU
PVC cable H05VV-F containing halogen	1	96.232.1003.1	96.232.1005.7				
	2	96.232.2003.1	96.232.2005.7				
	3	96.232.3003.1	96.232.3005.7				
	4	96.232.4003.1	96.232.4005.7				
	5	96.232.5003.1	96.232.5005.7				
	6	96.232.6003.1	96.232.6005.7				
	7	96.232.7003.1	96.232.7005.7				
	8	96.232.8003.1	96.232.8005.7				
Rubber-sheathed cable H07RN-F containing halogen	1	96.232.1033.1	96.232.1035.7				
	2	96.232.2033.1	96.232.2035.7				
	3	96.232.3033.1	96.232.3035.7				
	4	96.232.4033.1	96.232.4035.7				
	5	96.232.5033.1	96.232.5035.7				
	6	96.232.6033.1	96.232.6035.7				
	7	96.232.7033.1	96.232.7035.7				
	8	96.232.8033.1	96.232.8035.7				
Rubber-sheathed cable H07RN-F enhanced version halogen-free	1	96.232.1053.1					
	2	96.232.2053.1					
	3	96.232.3053.1					
	4	96.232.4053.1					
	5	96.232.5053.1					
	6	96.232.6053.1					
	7	96.232.7053.1					
	8	96.232.8053.1					

Cable assemblies

Cable 3 x 1.5 mm²; 16 A

Connection cables male – free end



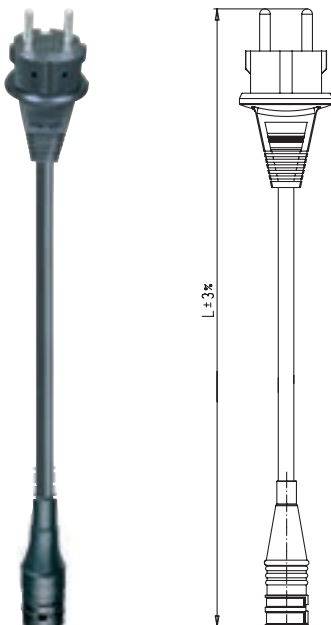
Cable	Length m	Part No.	Part No.
PVC cable H05VV-F containing halogen	1	96.232.1004.1	96.232.1006.7
	2	96.232.2004.1	96.232.2006.7
	3	96.232.3004.1	96.232.3006.7
	4	96.232.4004.1	96.232.4006.7
	5	96.232.5004.1	96.232.5006.7
	6	96.232.6004.1	96.232.6006.7
	7	96.232.7004.1	96.232.7006.7
	8	96.232.8004.1	96.232.8006.7

Cable	Length m	Part No.	Part No.	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1	96.232.1034.1	96.232.1036.7	on request
	2	96.232.2034.1	96.232.2036.7	
	3	96.232.3034.1	96.232.3036.7	
	4	96.232.4034.1	96.232.4036.7	
	5	96.232.5034.1	96.232.5036.7	
	6	96.232.6034.1	96.232.6036.7	
	7	96.232.7034.1	96.232.7036.7	
	8	96.232.8034.1	96.232.8036.7	

Cable	Length m	Part No.
Rubber-sheathed cable H07RN-F enhanced version halogen-free	1	96.232.1054.1
	2	96.232.2054.1
	3	96.232.3054.1
	4	96.232.4054.1
	5	96.232.5054.1
	6	96.232.6054.1
	7	96.232.7054.1
	8	96.232.8054.1

Power Connection cable

Male: european standard (SKII) – female: **RST**[®]



Power 250V
Color: gray

Cable	Length m	Part No.
PVC cable H05VV-F containing halogen	1.5	99.714.0000.7
	2.5	99.715.0000.7

Power 250V
Color: black

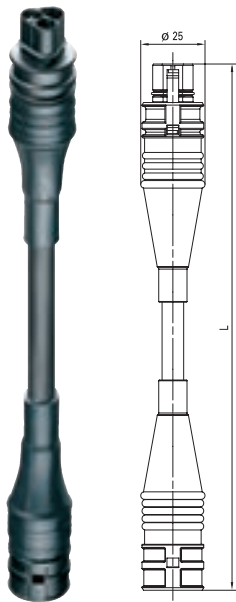
Cable	Length m	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1.5	99.712.0000.7
	2.5	99.713.0000.7
	4	99.716.0000.7
	5	99.718.0000.7
	8	99.717.0000.7

Cable assemblies

Cable 3 x 2.5 mm²; 20 A

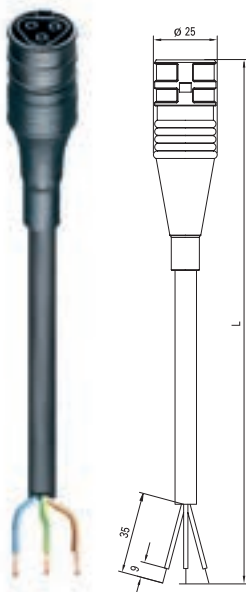
Rated values			Pull relief		shrinkage tube	
Wire ends	(open cable end)	ultrason. welded	Interlock		integrated	
Sheath strip length	(open cable end)	35 mm	Color cable		black	
Wire strip length	(open cable end)	9 mm	Color shrinkage tube		black	

Connection cables female – male



Cable	Length m	Power 250V		Power 250V / 400V	
		Part No.	Part No.	Part No.	Part No.
PVC cable H05VV-F containing halogen	1	96.233.1000.1	96.233.1001.7		
	2	96.233.2000.1	96.233.2001.7		
	3	96.233.3000.1	96.233.3001.7		
	4	96.233.4000.1	96.233.4001.7		
	5	96.233.5000.1	96.233.5001.7		
	6	96.233.6000.1	96.233.6001.7		
	7	96.233.7000.1	96.233.7001.7		
	8	96.233.8000.1	96.233.8001.7		
Rubber-sheathed cable H07RN-F containing halogen	1	96.233.1030.1	96.233.1031.7		
	2	96.233.2030.1	96.233.2031.7		
	3	96.233.3030.1	96.233.3031.7		
	4	96.233.4030.1	96.233.4031.7		
	5	96.233.5030.1	96.233.5031.7		
	6	96.233.6030.1	96.233.6031.7		
	7	96.233.7030.1	96.233.7031.7		
	8	96.233.8030.1	96.233.8031.7		
Rubber-sheathed cable H07RN-F enhanced version halogen-free	1	96.233.1050.1			
	2	96.233.2050.1			
	3	96.233.3050.1			
	4	96.233.4050.1			
	5	96.233.5050.1			
	6	96.233.6050.1			
	7	96.233.7050.1			
	8	96.233.8050.1			

Connection cables female – free end

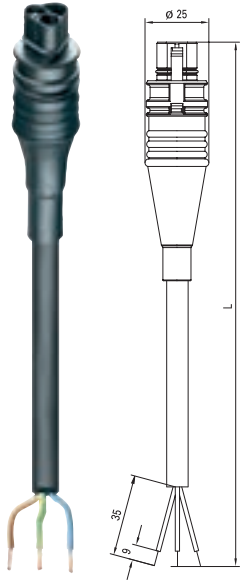


Cable	Length m	Power 250V		Power 250V / 400V	
		Part No.	Part No.	Part No.	Part No.
PVC cable H05VV-F containing halogen	1	96.233.1003.1	96.233.1005.7		
	2	96.233.2003.1	96.233.2005.7		
	3	96.233.3003.1	96.233.3005.7		
	4	96.233.4003.1	96.233.4005.7		
	5	96.233.5003.1	96.233.5005.7		
	6	96.233.6003.1	96.233.6005.7		
	7	96.233.7003.1	96.233.7005.7		
	8	96.233.8003.1	96.233.8005.7		
Rubber-sheathed cable H07RN-F containing halogen	1	96.233.1033.1	96.233.1035.7		
	2	96.233.2033.1	96.233.2035.7		
	3	96.233.3033.1	96.233.3035.7		
	4	96.233.4033.1	96.233.4035.7		
	5	96.233.5033.1	96.233.5035.7		
	6	96.233.6033.1	96.233.6035.7		
	7	96.233.7033.1	96.233.7035.7		
	8	96.233.8033.1	96.233.8035.7		
Rubber-sheathed cable H07RN-F enhanced version halogen-free	1	96.233.1053.1			
	2	96.233.2053.1			
	3	96.233.3053.1			
	4	96.233.4053.1			
	5	96.233.5053.1			
	6	96.233.6053.1			
	7	96.233.7053.1			
	8	96.233.8053.1			

Cable assemblies

Cable 3 x 2.5 mm²; 20 A

Connection cables male – free end



Power
250V



Power
250V / 400V



Cable	Length m	Part No.	Part No.
PVC cable H05VV-F containing halogen	1	96.233.1004.1	96.233.1006.7
	2	96.233.2004.1	96.233.2006.7
	3	96.233.3004.1	96.233.3006.7
	4	96.233.4004.1	96.233.4006.7
	5	96.233.5004.1	96.233.5006.7
	6	96.233.6004.1	96.233.6006.7
	7	96.233.7004.1	96.233.7006.7
	8	96.233.8004.1	96.233.8006.7

Cable	Length m	Part No.	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1	96.233.1034.1	96.233.1036.7
	2	96.233.2034.1	96.233.2036.7
	3	96.233.3034.1	96.233.3036.7
	4	96.233.4034.1	96.233.4036.7
	5	96.233.5034.1	96.233.5036.7
	6	96.233.6034.1	96.233.6036.7
	7	96.233.7034.1	96.233.7036.7
	8	96.233.8034.1	96.233.8036.7

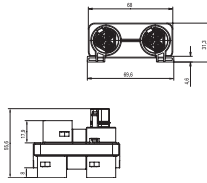
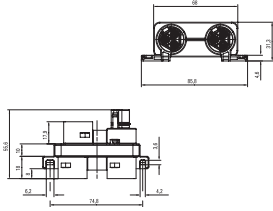
Cable	Length m	Part No.
Rubber-sheathed cable H07RN-F enhanced version halogen-free	1	96.233.1054.1
	2	96.233.2054.1
	3	96.233.3054.1
	4	96.233.4054.1
	5	96.233.5054.1
	6	96.233.6054.1
	7	96.233.7054.1
	8	96.233.8054.1

Distribution units

Distribution block 11/30

Interlock

Yes



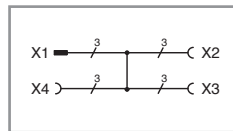
with fastening option

Color	Application	Pole marking	Input	Outputs	Part No.
■ black	Power 250 V	L, N, PE	1	3	96.030.0153.1
■ light grey	Power 250 V	L, N, PE	1	3	96.030.0153.0
■ green	Power 250 V/400 V	1, 2, PE	1	3	96.030.0155.7
■ brown	50 V + PE	1, 2, PE	1	3	96.030.0151.4

without fastening option

Color	Application	Pole marking	Input	Outputs	Part No.
■ black	Power 250 V	L, N, PE	1	3	96.030.0253.1
■ light grey	Power 250 V	L, N, PE	1	3	96.030.0253.0
■ green	Power 250 V/400 V	1, 2, PE	1	3	96.030.0255.7
■ brown	50 V + PE	1, 2, PE	1	3	96.030.0251.4

Circuit diagram



RST compact distribution unit 11/30

Dimensions

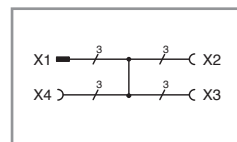
104 x 162 x 57.2 mm

fitted as required with pre-wired with Mounting option

M25 device connectors 3-pole 2.5 mm² (halogen free) Yes



Circuit diagram



Color	Application	Pole marking	Input	Outputs	Part No.
■ black			1, RST20i3	3, RST20i3	99.906.0000.7

RST multi-distribution unit 11/70

Dimensions

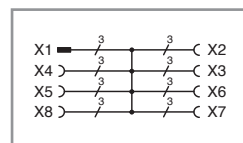
104 x 162 x 96 mm

fitted as required with pre-wired with Fuse

M25 device connectors 3-pole 2.5 mm² (halogen free) 6.3 or 10A can be integrated



Circuit diagram



Color	Application	Pole marking	Input	Outputs	Part No.
■ black			1, RST20i3	7, RST20i3	99.929.0000.7

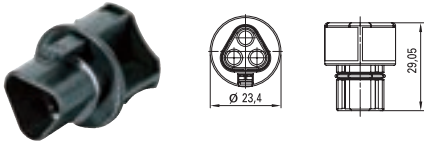
Accessories

Cover pieces

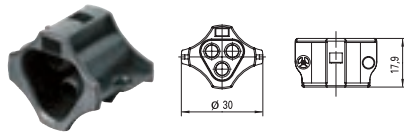
For the safe closure of female and male connectors.

With mounting strap for snapping onto plug connectors and device connectors

for female



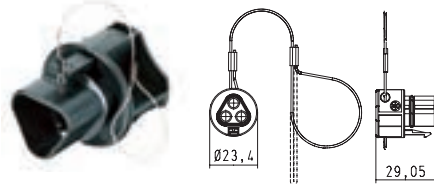
for male



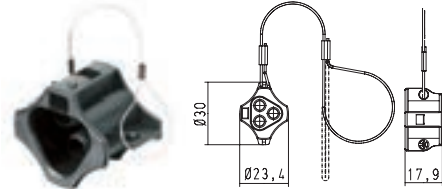
not captive against loss

Color	for female	for male
	Part No.	Part No.
■ gray	Z5.564.4553.0	05.564.4453.0
■ black	Z5.564.4553.1	05.564.4453.1

for female



for male

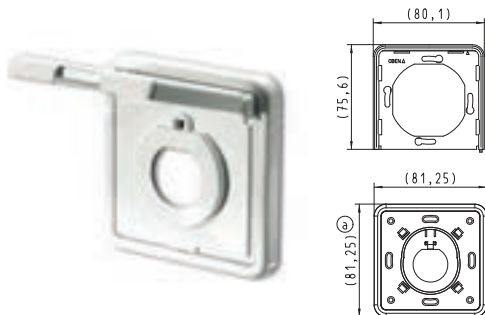


captive against loss

Color	for female	for male
	Part No.	Part No.
■ gray	99.413.6205.2	99.415.6205.2
■ black	99.414.6205.2	99.416.6205.2

Socket frame for device connectors M25 (female)

Protection rating: IP 44
 RST approval: 2PfG1915, EN61535
 Entry: 2- up to 5-pole



Color	Part No.
□ white	99.400.9999.7



Accessories Crimp

Female contacts and male contacts

Female contacts



Name	Marking	(groove) mm ²	Part No.
Female crimp contact	1	0.75 – 1.0	02.122.9000.0
Female crimp contact	unmarked	1.5	02.122.9100.0
Female crimp contact	1	2.5	02.122.9200.0
Female crimp contact	unmarked	4.0	02.122.9300.0
Male crimp contact	1	0.75 – 1.0	05.544.7800.0
Male crimp contact	unmarked	1.5	05.544.7900.0
Male crimp contact	1	2.5	05.544.8000.0
Male crimp contact	unmarked	4.0	05.545.4600.0

Male contacts



Crimping tool



Name	Part No.
Crimping tool incl. system kit	95.101.0800.0
Crimping die B	05.502.2100.0
Contact positioner	05.502.3600.0

Unlocking tool for crimp contacts



Name	Part No.
Unlocking tool	05.502.3500.0

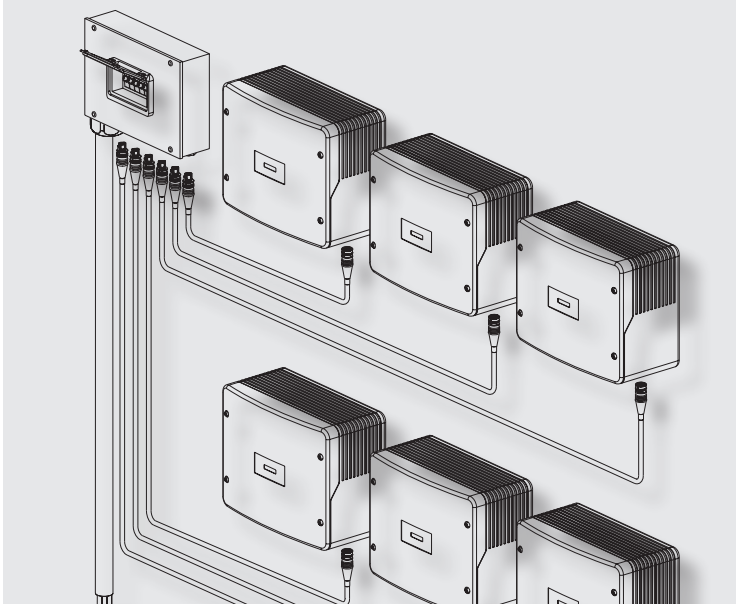


RST® CLASSIC



Solar applications for systems up to 32 A for single-phase power 3-pole

Application example



General

The system is specially adapted to the requirements of solar technology. The connectors can be loaded with a maximum of 32 A on two contacts (L, N) and are used for single-phase power with ENS.

Special distribution boxes are used to bundle the electrical power of up to 6 inverters and thus complete the system.

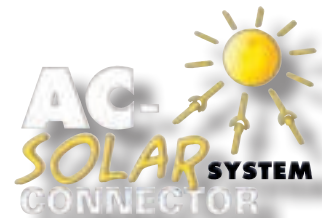
These connectors have their own mechanical coding.

This means that only associated pairs of male and female can be connected with the correct polarity.

This ensures a clear separation from the connectors of the other product series.

Features:

- Fast mounting through easy handling
- UV-resistant
- Rated current up to 32A (with 6.0 mm²)
- Cross-sections up to 6 mm²
- Degree of protection IP66/68 (3m; 2h) /69K

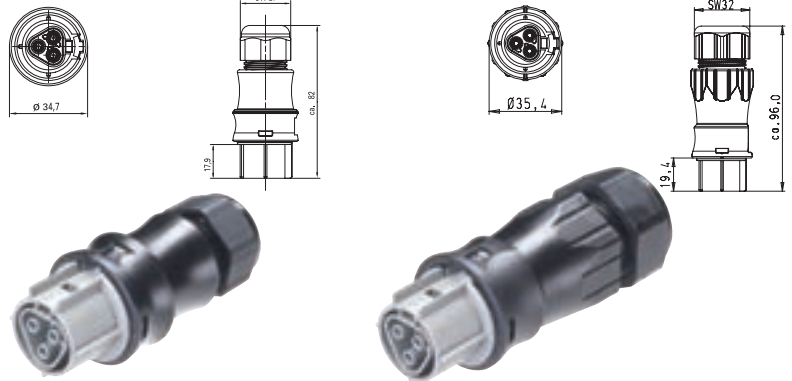


Coding

For daily updates visit the website at http://eshop.wieland-electric.com . Assembly instructions and other technical information can be found in the Technical Data or in eShop.				Application	Single-phase power
				Mechanical coding, for example	250V, 32A L, N, ⊕
Name	Description	Connection style	Strain relief housing	Connection points per pole	concrete gray
Connector	1 x cable entry	Screw	yes	1	✓
Distribution unit	Distribution box RST RAN Solar Distribution box RST Solar				✓ ✓
Device connectors	M25 device connector, standard				✓
Cable assemblies	Connection cable Male – Free end	pre-assembled	pre-assembled	pre-assembled	✓
	Connection cable Female – Free end	pre-assembled	pre-assembled	pre-assembled	✓
	Extension cable Male – Female	pre-assembled	pre-assembled	pre-assembled	✓

Connectors, 25A, straight for cables Ø 10 – 14 mm and 13 – 18 mm (up to 32A with 6.0 mm²)

Female connector



with screw connection for cables Ø 10 – 14 mm

Wire	mm ²	
solid	up to 6.0 ²⁾	without ferrules
fine-stranded		

with screw connection for cables Ø 13 – 18 mm

Wire	mm ²	
solid	up to 6.0 ²⁾	without ferrules
fine-stranded		

Application Coding Color

Part No.

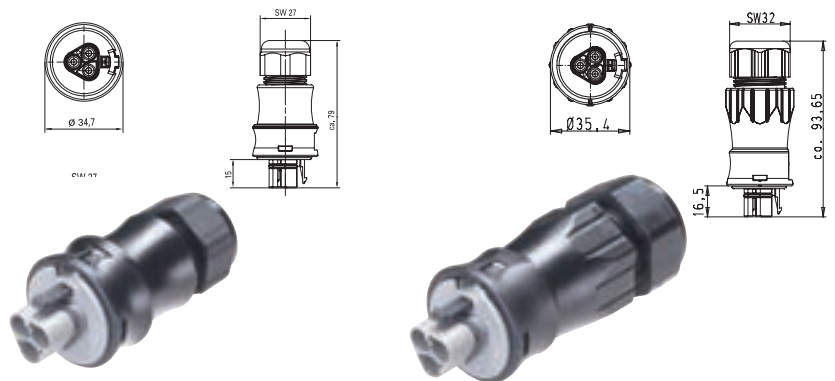
Part No.

Single-phase power 250 V	L, N, ⊕	concrete gray/black
--------------------------	---------	---------------------

96.031.4154.3

96.031.4554.3

Male connector



with screw connection for cables Ø 10 – 14 mm

Wire	mm ²	
solid	up to 6.0 ¹⁾	without ferrules
fine-stranded		
Locking device	yes	

with screw connection for cables Ø 13 – 18 mm

Wire	mm ²	
solid	up to 6.0 ¹⁾	without ferrules
fine-stranded		
Locking device	yes	

Application Coding Color

Part No.

Part No.

Single-phase power 250 V	L, N, ⊕	concrete gray/black
--------------------------	---------	---------------------

96.032.4154.3

96.032.4554.3

¹⁾ With 6.0 mm² wires the pull and bending forces at the connector must be taken into consideration and compensated by suitable measures if required

M25 device connector, 25 A straight (up to 32A with 6.0 mm²)

Female connector

With sealing option

For spacer rings for unlocking the device connector, see Accessories.

with screw connection	
Wire	mm ²
solid	up to 6.0
fine-stranded	
Locking device	yes
	without ferrules

Single-phase power 250 V

L, N, PE

concrete gray/black

with screw connection	
Wire	mm ²
solid	up to 6.0
fine-stranded	
Locking device	yes
	without ferrules

Single-phase power 250 V

L, N, PE

concrete gray/black

with screw connection	
Wire	mm ²
solid	up to 6.0
fine-stranded	
Locking device	yes
	without ferrules

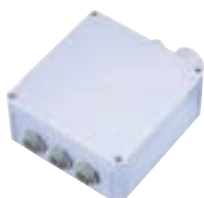
Distribution units

RST-Distribution box RST RAN Solar		Connector clamps	3 x 35 mm ²
Inputs	6 x RST25i3 / concrete gray coding	Circuit breakers	6 x B25
Cable gland	1 x M40, 2 x M20	Dimensions in mm (L x W x H)	350 x 300 x 100 mm



Name	Color	Part No.
RST RAN solar	Sheet metal/powder-coated	99.512.0000.7

Distribution box RST Solar		Connector clamps	5 x 10 mm ²
Inputs	3 x RST25i3 / Kodierung betongrau	Dimensions in mm (L x W x H)	180 x 180 x 90 mm
Cable gland	1 x M32, 2 x M20		



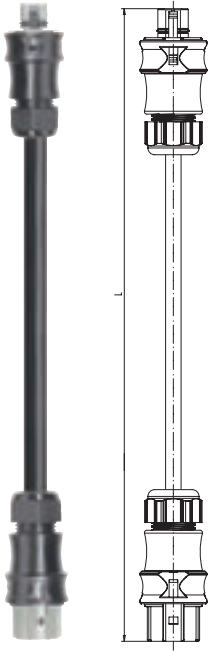
Name	Material	Part No.
Distribution box RST Solar	Plastic	99.502.0000.7

Cable assemblies

Cable 3 x 4.0 mm²; 25 A

Rated values			Connection type of cable		Gland nut	
Wire ends	(open cable end)	ultrason. welded	Interlock	integrated		
Sheath strip length	(open cable end)	35 mm	Color cable	black		
Wire strip length	(open cable end)	9 mm	Color handle shell	black		

Connection cables female – male



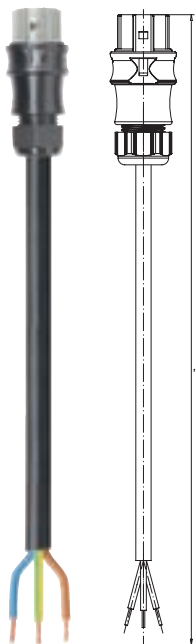
Single-phase power
250V



Cable	Length m	Part No.
PVC cable H05VV-F containing halogen	1.0	96.834.1000.3
	1.5	96.834.1500.3
	2.0	96.834.2000.3
	2.5	96.834.2500.3
	3.0	96.834.3000.3
	3.5	96.834.3500.3
4.0	96.834.4000.3	

Cable	Length m	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1.0	96.834.1030.3
	1.5	96.834.1530.3
	2.0	96.834.2030.3
	2.5	96.834.2530.3
	3.0	96.834.3030.3
	3.5	96.834.3530.3
4.0	96.834.4030.3	

Connection cables female – free end



Single-phase power
250V



Cable	Length m	Part No.
PVC cable H05VV-F containing halogen	1.0	96.834.1003.3
	1.5	96.834.1503.3
	2.0	96.834.2003.3
	2.5	96.834.2503.3
	3.0	96.834.3003.3
	3.5	96.834.3503.3
4.0	96.834.4003.3	

Cable diameter 11.2 mm ± 0.2
According to VDE 0281/T5 and VDE 0288/T4

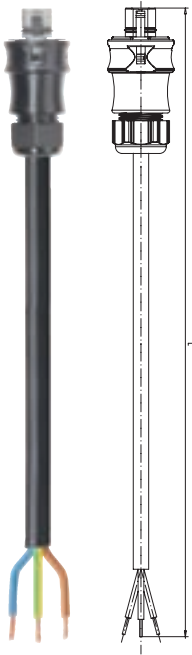
Cable	Length m	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1.0	96.834.1033.3
	1.5	96.834.1533.3
	2.0	96.834.2033.3
	2.5	96.834.2533.3
	3.0	96.834.3033.3
	3.5	96.834.3533.3
4.0	96.834.4033.3	

Cable diameter 13.4 mm ± 0.3
According to VDE 0281/T5 and VDE 0288/T4

Cable assemblies

Cable 3 x 4.0 mm²; 25 A

Connection cables male – free end



Single-phase power 250V



Cable	Length m	Part No.
PVC cable H05VV-F containing halogen	1.0	96.834.1004.3
	1.5	96.834.1504.3
	2.0	96.834.2004.3
	2.5	96.834.2504.3
	3.0	96.834.3004.3
	3.5	96.834.3504.3
4.0	96.834.4004.3	

Cable diameter 11.2 mm ± 0.2
According to VDE 0281/T5 and VDE 0288/T4

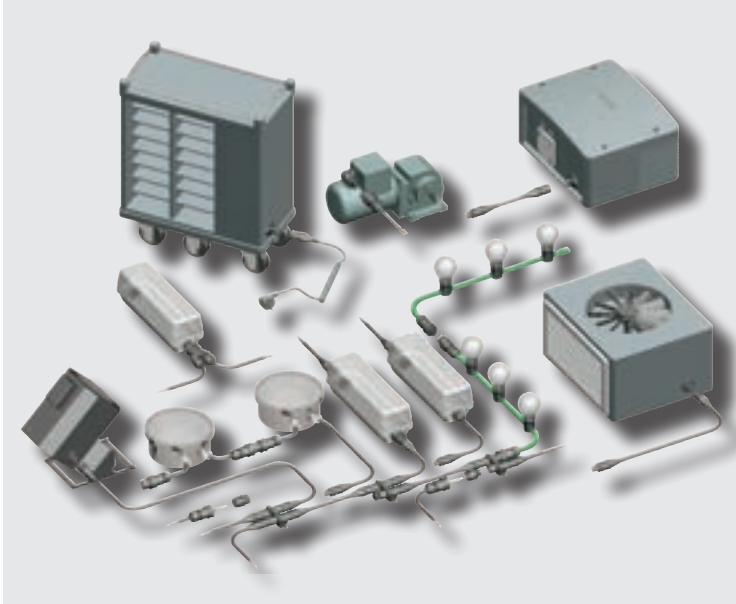
Cable	Length m	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1.0	96.834.1034.3
	1.5	96.834.1534.3
	2.0	96.834.2034.3
	2.5	96.834.2534.3
	3.0	96.834.3034.3
	3.5	96.834.3534.3
4.0	96.834.4034.3	

Cable diameter 13.4 mm ± 0.3
According to VDE 0281/T5 and VDE 0288/T4



2 variations for connecting electrical drives or for laying AS-i and 24 V auxiliary voltage

Application example





General

The four pole connector is based on the 5-pole variation with one pole not configured.

Two codings are available: a black coding for connecting electrical drives, and a brown coding for laying AS-Interface and the 24 V auxiliary voltage together.

They are mechanically coded. This means that only associated pairs of male and female can be connected with the correct polarity. This ensures a clear separation from the connectors of the other product series.

Coding

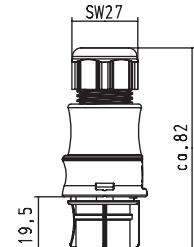
For daily updates visit the website at http://eshop.wieland-electric.com . Assembly instructions and other technical information can be found in the Technical Data or in eShop.					Application		
					Power	Extra-low voltage	
Mechanical coding, for example					250V/400V 1, 2, 3, ⊕	AS-i/24V 1, 2, 3, 4	
							
Name	Description	Connection style	Strain relief housing	Connection points per pole	light gray	black	signal brown
Connector	1 x cable entry	Screw Crimp	yes	1	✓	✓	✓
	2 x cable entry	Screw	yes	1	✓	✓	✓
Distribution units	RST compact distribution unit/ multi-distribution unit				on request	on request	on request
	Individual distribution box				on request	on request	on request
Device connectors	M16 device connector, modular, straight				✓	✓	✓
	M16 device connector, modular, angled 7°				✓	✓	✓
	M25 device connector, standard				✓	✓	✓
	M20 device connector, standard				✓	✓	✓
	M20 device connector, modular, angled				✓	✓	✓
	M25 device connector, modular, angled				✓	✓	✓
Cable assemblies	Connection cable Male – Free end	pre-assembled	pre-assembled	pre-assembled	✓	✓	✓
	Connection cable Female – Free end	pre-assembled	pre-assembled	pre-assembled	✓	✓	✓
	Extension cable	pre-assembled	pre-assembled	pre-assembled	✓	✓	✓
	Male – Female	pre-assembled	pre-assembled	pre-assembled	✓	✓	✓

Connectors, straight for cables Ø 6 – 10 mm and 10 – 14 mm

Female connector

Unmounted with cable gland.
Crimp contacts separately available under Accessories.

See Technical Data for sheath and insulation strip lengths.



with screw connection ¹⁾		with crimp connection	
Wire	mm ²	Wire	mm ²
rigid		fine-stranded	0.75 – 4.0
fine-stranded	0.75 – 4.0		
stranded	without ferrules		

Application	Coding	Cable diameter in mm	Color	Part No.	Part No.
Power 250/400V	1, 2, 3, ⊕	6 – 10	light gray black	96.041.4053.0 96.041.4053.1	96.141.0053.0 96.141.0053.1
		10 – 14	light gray black	96.041.4153.0 96.041.4153.1	96.141.0153.0 96.141.0153.1
AS-i / 24V	1, 2, 3, 4	6 – 10	signal brown	96.041.4051.4 96.041.4951.4	
		1 x AS-i profile cable			

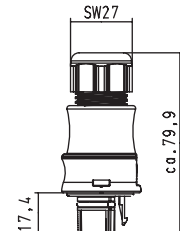
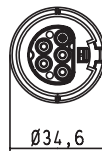
Contacts separately under Accessories, see following pages.

Male connector

Unmounted with cable gland and locking device.

Crimp contacts separately available under Accessories.

See Technical Data for sheath and insulation strip lengths.



with screw connection ¹⁾		with crimp connection	
Wire	mm ²	Wire	mm ²
rigid		fine-stranded	0.75 – 4.0
fine-stranded	0.75 – 4.0		
stranded	without ferrules		

Application	Coding	Cable diameter in mm	Color	Part No.	Part No.
Power 250/400V	1, 2, 3, ⊕	6 – 10	light gray black	96.042.4053.0 96.042.4053.1	96.142.0053.0 96.142.0053.1
		10 – 14	light gray black	96.042.4153.0 96.042.4153.1	96.142.0153.0 96.142.0153.1
AS-i / 24V	1, 2, 3, 4	6 – 10	signal brown	96.042.4051.4 96.042.4951.4	
		1 x AS-i profile cable			

Contacts separately under Accessories, see following pages.

¹⁾ With wire protection available on request

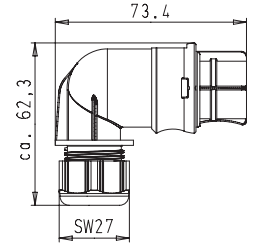
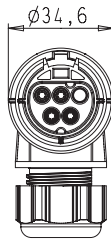
Connectors, angled 90° for cables Ø 6 – 10 mm and 10 – 14 mm

Female connector

Unmounted with cable gland.
90° angle.

Crimp contacts separately available under
Accessories.

See Technical Data for sheath and insulation strip
lengths.



with screw connection¹⁾

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0

Application	Coding	Cable diameter in mm	Color
Power 250/400V	1, 2, 3, ⊕	6 – 10	light gray black
		10 – 14	light gray black
AS-i / 24V	1, 2, 3, 4	6 – 10	signal brown
		1 x AS-i profile cable 2 x AS-i profile cable	

Part No.
96.043.4053.0
96.043.4053.1
96.043.4153.0
96.043.4153.1
96.043.4051.4
96.043.4951.4
96.043.4851.4

Part No.
96.143.0053.0
96.143.0053.1
96.143.0153.0
96.143.0153.1

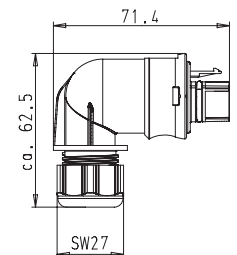
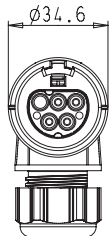
Contacts separately under Accessories, see following pages.

Male connector

Unmounted with cable gland and locking device.
90° angle.

Crimp contacts separately available under
Accessories.

See Technical Data for sheath and insulation strip
lengths.



with screw connection¹⁾

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0

Application	Coding	Cable diameter in mm	Color
Power 250/400V	1, 2, 3, ⊕	6 – 10	light gray black
		10 – 14	light gray black
AS-i / 24V	1, 2, 3, 4	6 – 10	signal brown
		1 x AS-i profile cable 2 x AS-i profile cable	

Part No.
96.044.4053.0
96.044.4053.1
96.044.4153.0
96.044.4153.1
96.044.4051.4
96.044.4951.4
96.044.4851.4

Part No.
96.144.0053.0
96.144.0053.1
96.144.0153.0
96.144.0153.1

Contacts separately under Accessories, see following pages.

¹⁾ With wire protection available on request

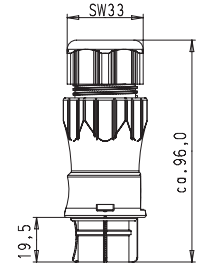
Connectors, straight for cables Ø 13 – 18 mm

Female connector

Unmounted with cable gland.

Crimp contacts separately available under Accessories.

See Technical Data for sheath and insulation strip lengths.



with screw connection¹⁾

Wire	mm ²
rigid	
fine-stranded	up to 4.0
stranded	without ferrules

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0

Application	Coding	Cable diameter in mm	Color
Power 250 / 400V	1, 2, 3, ⊕	13 – 18	light gray black

Part No.
96.041.4553.0
96.041.4553.1

Part No.
96.141.0553.0
96.141.0553.1

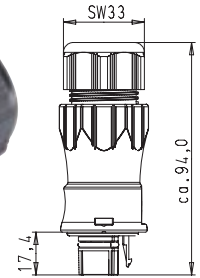
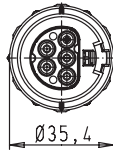
Contacts separately under Accessories, see following pages.

Male connector

Unmounted with cable gland and locking device.

Crimp contacts separately available under Accessories.

See Technical Data for sheath and insulation strip lengths.



with screw connection¹⁾

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0

Application	Coding	Cable diameter in mm	Color
Power 250 / 400V	1, 2, 3, ⊕	13 – 18	light gray black

Part No.
96.042.4553.0
96.042.4553.1

Part No.
96.142.0553.0
96.142.0553.1

Contacts separately under Accessories, see following pages.

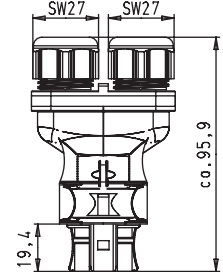
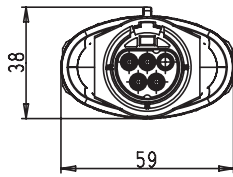
¹⁾ With wire protection available on request

Splitter connector, straight for cables Ø 6 – 10 mm and 10 – 14 mm

Female connector

Unmounted with cable glands.

See Technical Data for sheath and insulation strip lengths.

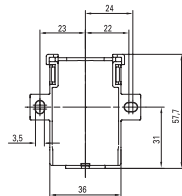
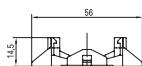


with screw connection¹⁾

Wire	mm ²
rigid	
fine-stranded	0.75 – 1.5
stranded	without ferrules

Application	Coding	Cable diameter in mm	Color	Part No.
Power 250/400V	1, 2, 3, ⊕	6 – 10	light gray black	96.041.4253.0 96.041.4253.1
		10 – 14	light gray black	96.041.4353.0 96.041.4353.1

Mounting plate for splitter connectors



Color	Part No.
■ gray	01.006.1553.0
■ black	01.006.1553.1

¹⁾ With wire protection available on request

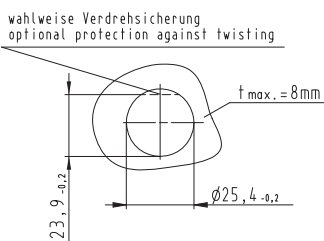
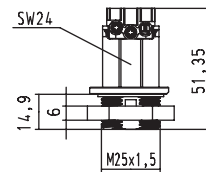
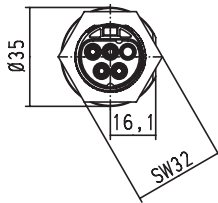
M25 device connector straight, standard

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from outside.

Crimp contacts separately available under Accessories.

See the Technical Data for insulation strip lengths.
For spacer rings for unlocking the device connector, see Accessories.



with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M25 x 1.5
Gland	outside

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M25 x 1.5
Gland	outside

Application	Coding	Color
Power 250/400V	1, 2, 3, ⊕	light gray black
AS-i / 24V	1, 2, 3, 4	signal brown

Part No.
96.041.5053.0
96.041.5053.1
96.041.5051.4

Part No.
96.141.1053.0
96.141.1053.1

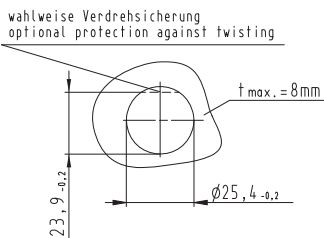
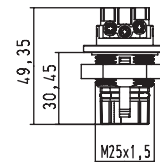
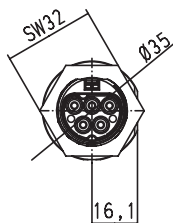
Contacts separately under Accessories, see following pages.

Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from outside.
With locking device.

Crimp contacts separately available under Accessories.

See the Technical Data for insulation strip lengths.



with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M25 x 1.5
Gland	outside
Locking device	yes

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M25 x 1.5
Gland	outside
Locking device	yes

Application	Coding	Color
Power 250/400V	1, 2, 3, ⊕	light gray black
AS-i / 24V	1, 2, 3, 4	signal brown

Part No.
96.042.5053.0
96.042.5053.1
96.042.5051.4

Part No.
96.142.1053.0
96.142.1053.1

Contacts separately under Accessories, see following pages.

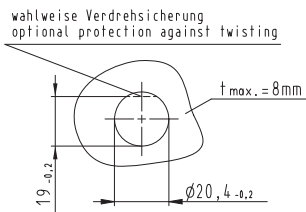
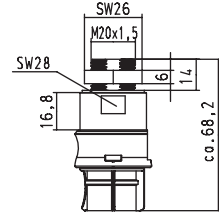
M20 device connector straight, modular

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.

Crimp contacts separately available under Accessories.

See the Technical Data for insulation strip lengths.



with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M20 x 1.5
Gland	inside

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M20 x 1.5
Gland	inside

Application	Coding	Color
Power 250/400V	1, 2, 3, ⊕	light gray black
AS-i / 24V	1, 2, 3, 4	signal brown

Part No.
96.041.6053.0 96.041.6053.1
96.041.6051.4

Part No.
96.141.2053.0 96.141.2053.1

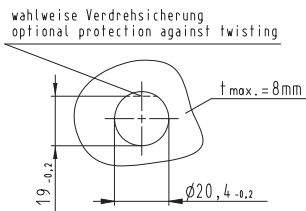
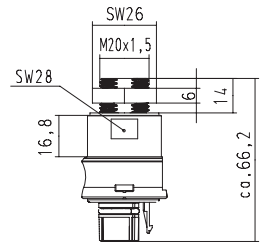
Contacts separately under Accessories, see following pages.

Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
With locking device.

Crimp contacts separately available under Accessories.

See the Technical Data for insulation strip lengths.



with screw connection

Leitungen	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M20 x 1.5
Gland	inside
Locking device	yes

with crimp connection

Leitungen	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M20 x 1.5
Gland	inside
Locking device	yes

Application	Coding	Color
Power 250/400V	1, 2, 3, ⊕	light gray black
AS-i / 24V	1, 2, 3, 4	signal brown

Part No.
96.042.6053.0 96.042.6053.1
96.042.6051.4

Part No.
96.142.2053.0 96.142.2053.1

Contacts separately under Accessories, see following pages.

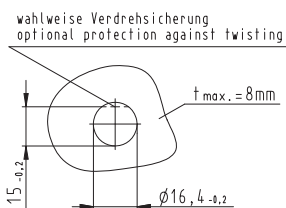
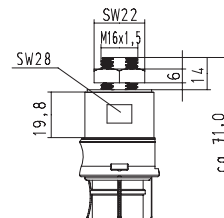
M16 device connector straight, modular

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.

Crimp contacts separately available under Accessories.

See the Technical Data for insulation strip lengths.





with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M16 x 1.5
Gland	inside

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M16 x 1.5
Gland	inside

Application	Coding	Color
Power 250/400V	 1, 2, 3, ⊕	light gray black
AS-i / 24V	 1, 2, 3, 4	signal brown

Part No.
96.041.6153.0
96.041.6153.1
96.041.6151.4

Part No.
96.141.2153.0
96.141.2153.1

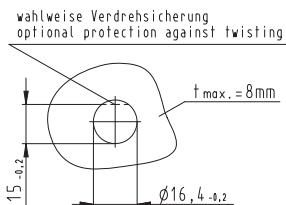
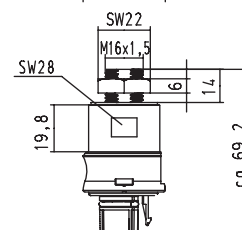
Contacts separately under Accessories, see following pages.

Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside. With locking device.

Crimp contacts separately available under Accessories.

See the Technical Data for insulation strip lengths.





with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M16 x 1.5
Gland	inside
Locking device	yes

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M16 x 1.5
Gland	inside
Locking device	yes

Application	Coding	Color
Power 250/400V	 1, 2, 3, ⊕	light gray black
AS-i / 24V	 1, 2, 3, 4	signal brown

Part No.
96.042.6153.0
96.042.6153.1
96.042.6151.4

Part No.
96.142.2153.0
96.142.2153.1

Contacts separately under Accessories, see following pages.

¹⁾ With wire protection available on request

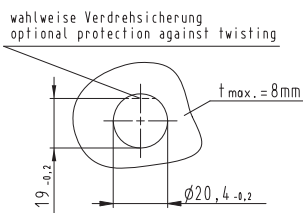
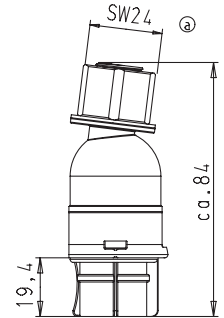
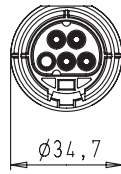
M16 device connector angled 7°, modular

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside. Angled 7°, thread M16.

Crimp contacts separately available under Accessories.

See the Technical Data for insulation strip lengths.



with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M16 x 1.5
Gland	inside

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M16 x 1.5
Gland	inside

Application	Coding	Color
Power 250/400V	1, 2, 3, ⊕	light gray black
AS-i / 24V	1, 2, 3, 4	signal brown

Part No.
96.045.6153.0
96.045.6153.1
96.045.6151.4

Part No.
96.145.2153.0
96.145.2153.1

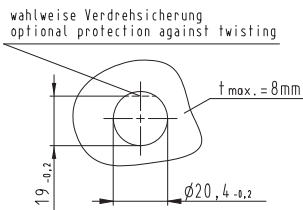
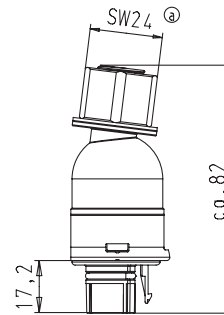
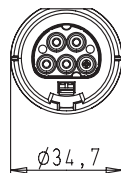
Contacts separately under Accessories, see following pages.

Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside. Angled 7°, thread M16. With locking device.

Crimp contacts separately available under Accessories.

See the Technical Data for insulation strip lengths.



with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M16 x 1.5
Gland	inside
Locking device	yes

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M16 x 1.5
Gland	inside
Locking device	yes

Application	Coding	Color
Power 250/400V	1, 2, 3, ⊕	light gray black
AS-i / 24V	1, 2, 3, 4	signal brown

Part No.
96.046.6153.0
96.046.6153.1
96.046.6151.4

Part No.
96.146.2153.0
96.146.2153.1

Contacts separately under Accessories, see following pages.

¹⁾ With wire protection available on request

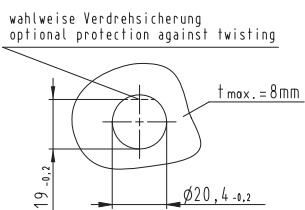
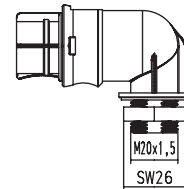
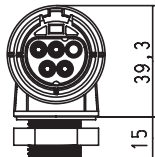
M20 device connector angled 90°, modular

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
Angled 90°, thread M20.

Crimp contacts separately available under Accessories.

See the Technical Data for insulation strip lengths.



with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M20 x 1.5
Gland	inside

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M20 x 1.5
Gland	inside

Application	Coding	Color
Power 250/400V	1, 2, 3, ⊕	light gray black
AS-i / 24V	1, 2, 3, 4	signal brown

Part No.
96.043.6053.0 96.043.6053.1
96.043.6051.4

Part No.
96.143.2053.0 96.143.2053.1

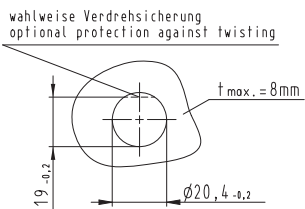
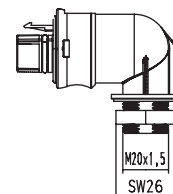
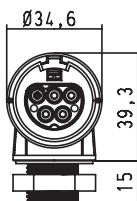
Contacts separately under Accessories, see following pages.

Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
Angled 90°, thread M20.
With locking device.

Crimp contacts separately available under Accessories-

See the Technical Data for insulation strip lengths.



with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M20 x 1.5
Gland	inside
Locking device	yes

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M20 x 1.5
Gland	inside
Locking device	yes

Application	Coding	Color
Power 250/400V	1, 2, 3, ⊕	light gray black
AS-i / 24V	1, 2, 3, 4	signal brown

Part No.
96.044.6053.0 96.044.6053.1
96.044.6051.4

Part No.
96.144.2053.0 96.144.2053.1

Contacts separately under Accessories, see following pages.

¹⁾ With wire protection available on request

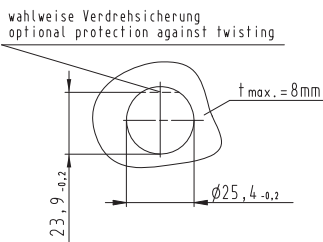
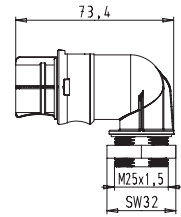
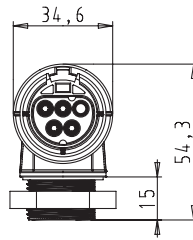
M25 device connector angled 90°, modular

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside. Angled 90°, thread M25.

Crimp contacts separately available under Accessories.

See the Technical Data for insulation strip lengths.



with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M25 x 1.5
Gland	inside

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M25 x 1.5
Gland	inside

Application	Coding	Color
Power 250/400V	1, 2, 3, ⊕	light gray black
AS-i / 24V	1, 2, 3, 4	signal brown

Part No.
96.043.6253.0
96.043.6253.1
96.043.6251.4

Part No.
96.143.2253.0
96.143.2253.1

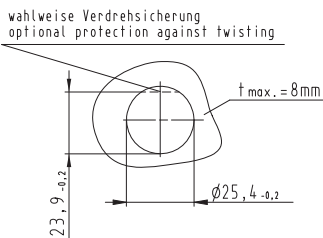
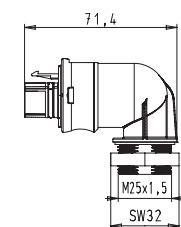
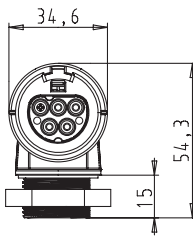
Contacts separately under Accessories, see following pages.

Male connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside. Angled 90°, thread M25. With locking device.

Crimp contacts separately available under Accessories.

See the Technical Data for insulation strip lengths.



with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M25 x 1.5
Gland	inside
Locking device	yes

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M25 x 1.5
Gland	inside
Locking device	yes

Application	Coding	Color
Power 250/400V	1, 2, 3, ⊕	light gray black
AS-i / 24V	1, 2, 3, 4	signal brown

Part No.
96.044.6253.0
96.044.6253.1
96.044.6251.4

Part No.
96.144.2253.0
96.144.2253.1

Contacts separately under Accessories, see following pages.

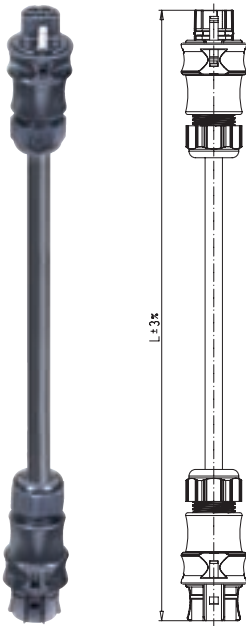
¹⁾ With wire protection available on request

Cable assemblies

Cable 4 x 1.5 mm²; 16 A

Rated values			Pull relief	Gland nut
Wire ends	(open cable end)	ultrason. welded	Interlock	integrated
Sheath strip length	(open cable end)	35 mm	Color cable	black
Wire strip length	(open cable end)	9 mm	Color handle shell	black

Connection cables female – male



Power
250/400V

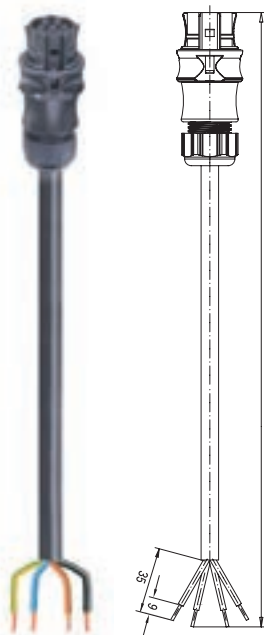


Cable	Length m	Part No.
PVC cable H05VV-F containing halogen	1	96.442.1000.1
	2	96.442.2000.1
	3	96.442.3000.1
	4	96.442.4000.1
	5	96.442.5000.1
	6	96.442.6000.1
	7	96.442.7000.1
	8	96.442.8000.1

Cable	Length m	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1	96.442.1030.1
	2	96.442.2030.1
	3	96.442.3030.1
	4	96.442.4030.1
	5	96.442.5030.1
	6	96.442.6030.1
	7	96.442.7030.1
	8	96.442.8030.1

4-pole cables - one pole is not configured

Connection cables female – free end



Power
250/400V



Cable	Length m	Part No.
PVC cable H05VV-F containing halogen	1	96.442.1003.1
	2	96.442.2003.1
	3	96.442.3003.1
	4	96.442.4003.1
	5	96.442.5003.1
	6	96.442.6003.1
	7	96.442.7003.1
	8	96.442.8003.1

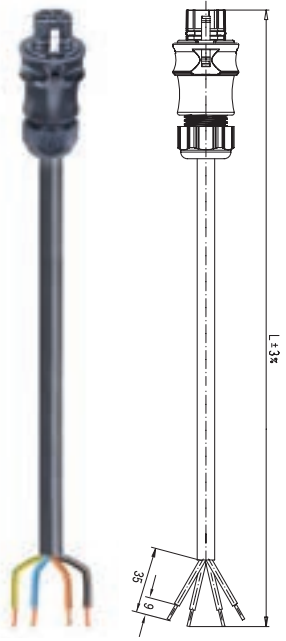
Cable	Length m	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1	96.442.1033.1
	2	96.442.2033.1
	3	96.442.3033.1
	4	96.442.4033.1
	5	96.442.5033.1
	6	96.442.6033.1
	7	96.442.7033.1
	8	96.442.8033.1

4-pole cables - one pole is not configured

Cable assemblies

Cable 4 x 1.5 mm²; 16 A

Connection cables male – free end



**Power
250/400V**



Cable	Length m	Part No.
PVC cable H05VV-F containing halogen	1	96.442.1004.1
	2	96.442.2004.1
	3	96.442.3004.1
	4	96.442.4004.1
	5	96.442.5004.1
	6	96.442.6004.1
	7	96.442.7004.1
	8	96.442.8004.1

Cable	Length m	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1	96.442.1034.1
	2	96.442.2034.1
	3	96.442.3034.1
	4	96.442.4034.1
	5	96.442.5034.1
	6	96.442.6034.1
	7	96.442.7034.1
	8	96.442.8034.1

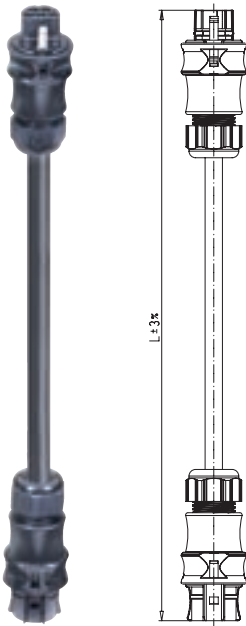
4-pole cables - one pole is not configured

Cable assemblies

Cable 4 x 2.5 mm²; 20 A

Rated values			Pull relief	Gland nut
Wire ends	(open cable end)	ultrason. welded	Interlock	integrated
Sheath strip length	(open cable end)	35 mm	Color cable	black
Wire strip length	(open cable end)	9 mm	Color handle shell	black

Connection cables female – male



Power
250/400V

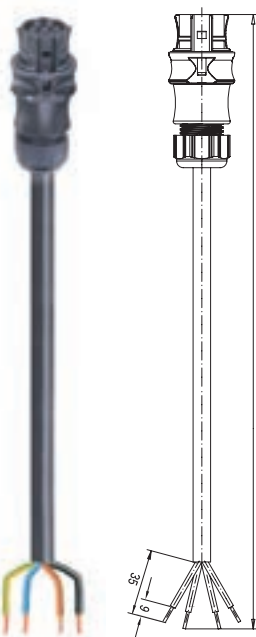


Cable	Length m	Part No.
PVC cable H05VV-F containing halogen	1	96.443.1000.1
	2	96.443.2000.1
	3	96.443.3000.1
	4	96.443.4000.1
	5	96.443.5000.1
	6	96.443.6000.1
	7	96.443.7000.1
	8	96.443.8000.1

Cable	Length m	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1	96.443.1030.1
	2	96.443.2030.1
	3	96.443.3030.1
	4	96.443.4030.1
	5	96.443.5030.1
	6	96.443.6030.1
	7	96.443.7030.1
	8	96.443.8030.1

4-pole cables - one pole is not configured

Connection cables female – free end



Power
250/400V



Cable	Length m	Part No.
PVC cable H05VV-F containing halogen	1	96.443.1003.1
	2	96.443.2003.1
	3	96.443.3003.1
	4	96.443.4003.1
	5	96.443.5003.1
	6	96.443.6003.1
	7	96.443.7003.1
	8	96.443.8003.1

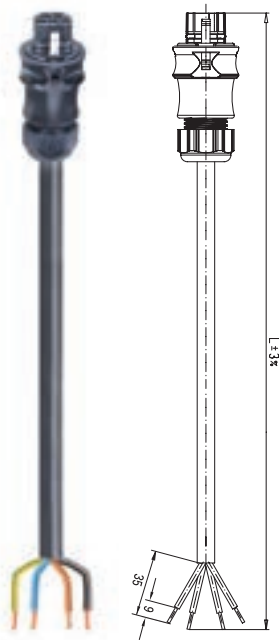
Cable	Length m	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1	96.443.1033.1
	2	96.443.2033.1
	3	96.443.3033.1
	4	96.443.4033.1
	5	96.443.5033.1
	6	96.443.6033.1
	7	96.443.7033.1
	8	96.443.8033.1

4-pole cables - one pole is not configured

Cable assemblies

Cable 4 x 2.5 mm²; 20 A

Connection cables male – free end



Power
250/400V



Cable	Length m	Part No.
PVC cable H05VV-F containing halogen	1	96.443.1004.1
	2	96.443.2004.1
	3	96.443.3004.1
	4	96.443.4004.1
	5	96.443.5004.1
	6	96.443.6004.1
	7	96.443.7004.1
	8	96.443.8004.1

Cable	Length m	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1	96.443.1034.1
	2	96.443.2034.1
	3	96.443.3034.1
	4	96.443.4034.1
	5	96.443.5034.1
	6	96.443.6034.1
	7	96.443.7034.1
	8	96.443.8034.1

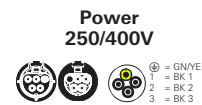
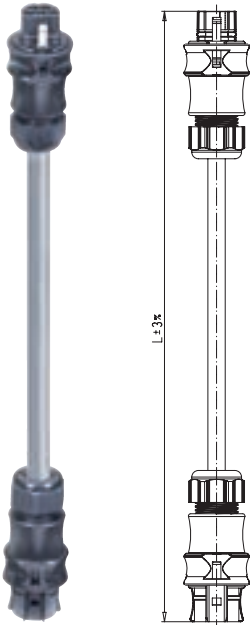
4-pole cables - one pole is not configured

Cable assemblies

Cable 4 x 1.5 mm²; 16 A

Rated values			Pull relief	Gland nut
Wire ends	(open cable end)	ultrason. welded	Interlock	integrated
Sheath strip length	(open cable end)	35 mm	Color cable	grey
Wire strip length	(open cable end)	9 mm	Color handle shell	black

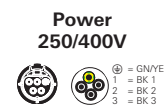
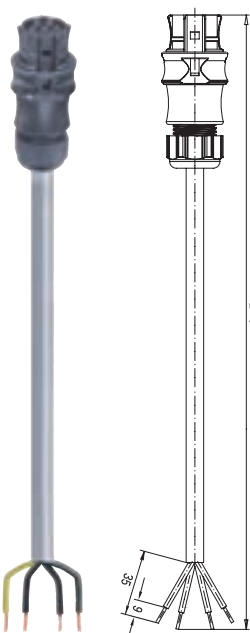
Connection cables female – male



Cable	Length m	Part No.
PVC cable Ölflex Classic 100 containing halogen	1	96.442.1080.1
	2	96.442.2080.1
	3	96.442.3080.1
	4	96.442.4080.1
	5	96.442.5080.1
	6	96.442.6080.1
	7	96.442.7080.1
	8	96.442.8080.1

4-pole cables - one pole is not configured

Connection cables female – free end



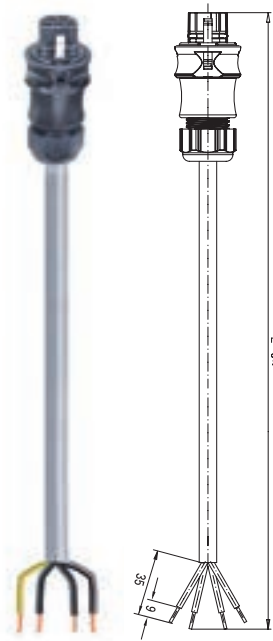
Cable	Length m	Part No.
PVC cable Ölflex Classic 100 containing halogen	1	96.442.1083.1
	2	96.442.2083.1
	3	96.442.3083.1
	4	96.442.4083.1
	5	96.442.5083.1
	6	96.442.6083.1
	7	96.442.7083.1
	8	96.442.8083.1

4-pole cables - one pole is not configured

Cable assemblies

Cable 4 x 1.5 mm²; 16 A

Connection cables male – free end



Power
250/400V



Cable	Length m	Part No.
	1	96.442.1084.1
	2	96.442.2084.1
	3	96.442.3084.1
PVC cable	4	96.442.4084.1
Ölflex Classic 100	5	96.442.5084.1
containing halogen	6	96.442.6084.1
	7	96.442.7084.1
	8	96.442.8084.1

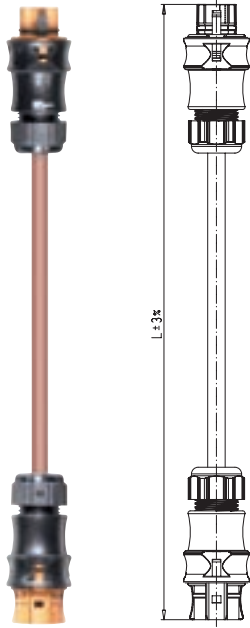
4-pole cables - one pole is not configured

Cable assemblies

Cable 4 x 2.5 mm²; 20 A (AS-i 24 V)

Rated values			Pull relief	Gland nut
Wire ends	(open cable end)	ultrason. welded	Interlock	integrated
Sheath strip length	(open cable end)	35 mm	Color cable	brown
Wire strip length	(open cable end)	9 mm	Color handle shell	signal brown

Connection cables female – male



AS-i, 24V auxiliary voltage

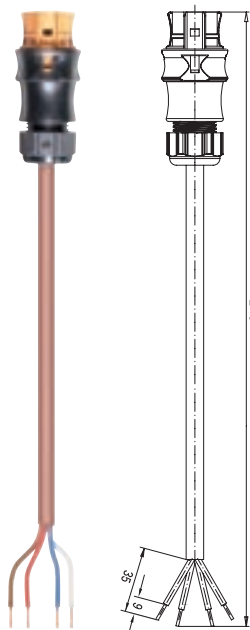
AS-i 24V



Cable	Length m	Part No.
PVC cable special compound	1	96.443.1082.4
	2	96.443.2082.4
	3	96.443.3082.4
	4	96.443.4082.4
	5	96.443.5082.4
	6	96.443.6082.4
	7	96.443.7082.4
	8	96.443.8082.4

4-pole cables - one pole is not configured

Connection cables female – free end



AS-i, 24V auxiliary voltage

AS-i 24V



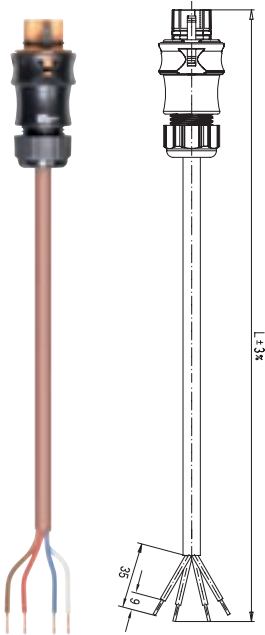
Cable	Length m	Part No.
PVC cable special compound	1	96.443.1087.4
	2	96.443.2087.4
	3	96.443.3087.4
	4	96.443.4087.4
	5	96.443.5087.4
	6	96.443.6087.4
	7	96.443.7087.4
	8	96.443.8087.4

4-pole cables - one pole is not configured

Cable assemblies

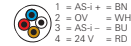
Cable 4 x 2.5 mm²; 20 A (AS-i 24 V)

Connection cables male – free end



AS-i, 24V auxiliary voltage

AS-i 24V



1 = AS-i+ = BN
2 = OV = WH
3 = AS-i- = BU
4 = 24 V = RD

Cable	Length m	Part No.
PVC cable special compound	1	96.443.1088.4
	2	96.443.2088.4
	3	96.443.3088.4
	4	96.443.4088.4
	5	96.443.5088.4
	6	96.443.6088.4
	7	96.443.7088.4
	8	96.443.8088.4

4-pole cables - one pole is not configured

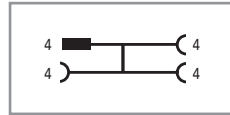
Distribution units

RST compact distribution unit

Dimensions	104 x 162 x 57.2 mm	Pre-wired with	2.5 mm ²
Fitted as required with	M25 device connectors 4-pole	Mounting option	Yes



Circuit diagram



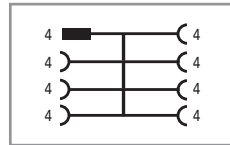
Color	Input	Outputs	Part No.
■ black	1, RST20i4	3, RST20i4	99.911.0000.7

RST multiple distribution unit

Dimensions	112 x 154 x 94 mm	Pre-wired with	2.5 mm ²
Fitted as required with	M25 device connectors 4-pole	Fuse	6.3 or 10A can be integrated



Circuit diagram



Color	Input	Outputs	Part No.
■ black	1, RST20i4	4, RST20i4	99.935.0000.7
■ black	1, RST20i4	5, RST20i4	99.916.0000.7
■ black	1, RST20i4	7, RST20i4	99.936.0000.7

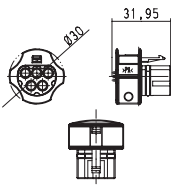
Accessories cover pieces

Cover pieces

For the safe closure of female and male connectors.

With mounting strap for snapping onto plug connectors and device connectors

for female



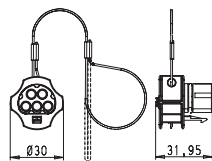
for male



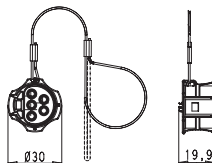
not captive against loss

Color	for female	for male
■ light grey	Part No. 25.565.9853.0	Part No. 05.565.9953.0
■ black	25.565.9853.1	05.565.9953.1

for female



for male



captive against loss

Color	for female	for male
■ light grey	Part No. 99.529.0000.7	Part No. 99.531.0000.7
■ black	99.530.0000.7	99.532.0000.7

Accessories Crimp

Female contacts and male contacts

Female contact



Male contact



Name	Marking	(groove) mm ²	Part No.
Female contact	None	0.75 – 1.0	02.125.5521.8
Female contact	1	1.5	02.125.5621.8
Female contact	2	2.5	02.125.5721.8
Female contact	3	4.0	02.125.5821.8
Male contact	None	0.75 – 1.0	05.545.0021.8
Male contact	1	1.5	05.545.0121.8
Male contact	2	2.5	05.545.0221.8
Male contact	3	4.0	05.545.0321.8

Crimping tool



Name	Part No.
Crimping tool incl. system kit	95.101.0800.0
Crimping die B	05.502.2100.0
Contact positioner	05.502.3600.0

Extraction tool for crimp contacts

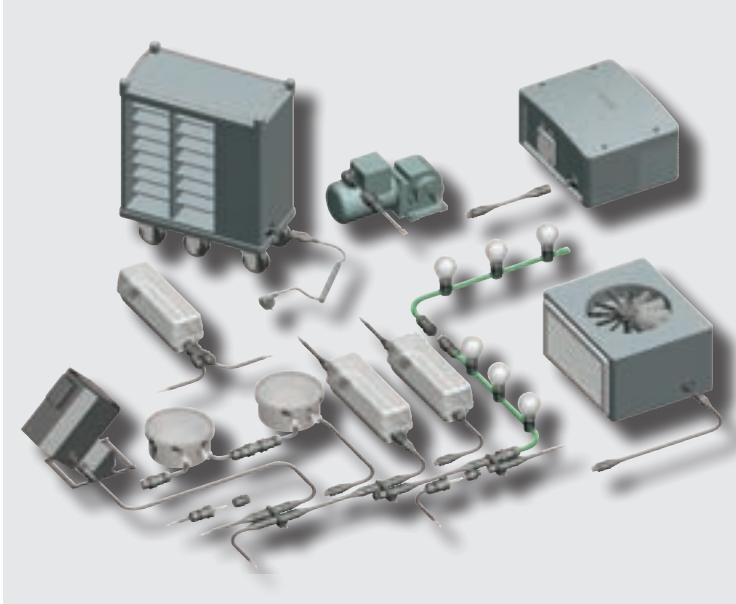


Name	Part No.
Extraction tool	05.502.3500.0



General power applications, switching functions, power/dimming signals and low voltage

Application example



General

Four variations are available for the 5-pole connectors: the standard version for general power applications, another version for switching functions, a version to combine power and dimming signals, as well as a version for low-voltage applications.

All connectors are mechanically coded. This means that only associated pairs of male and female can be connected with the correct polarity. You therefore have the security of a clear separation of different applications without having to redo any incorrect connections. The color of the connectors indicates the links that belong together.

Coding

For daily updates visit the website at http://eshop.wieland-electric.com . Assembly instructions and other technical information can be found in the Technical Data or in eShop.					Application					
Mechanical coding, for example					Power 250V/400V	Extra-low voltage	Power 250V + Dimming	Switch. func. 250 V	Power 250/400V without	
					⊕, N, 3, 2, 1	1,2,3,4,5	L, N, ⊕, D1, D2	1,2,3, 4,5	N,E,1,2,3	
Name	Description	Connection style	Strain relief housing	Connection points per pole	light gray	black	signal brown	turquoise	light blue	yellow
Connector	1 x cable entry	Screw Crimp	yes	1	✓	✓	✓	✓	✓	✓
	2 x cable entry	Screw Spring clamp	yes	1	✓	✓	✓	✓	✓	✓
Distribution units	RST compact distribution unit/ multi-distribution unit				on request	on request	on request	on request	on request	on request
	Individual distribution box				on request	on request	on request	on request	on request	on request
Device connectors	M16 device connector, modular, straight				✓	✓	✓	✓	✓	
	M16 device connector, modular, angled 7°				✓	✓	✓	✓	✓	
	M25 device connector, standard				✓	✓	✓	✓	✓	✓
	M20 device connector, standard				✓	✓	✓	✓	✓	
	M20 device connector, modular, angled				✓	✓	✓	✓	✓	
	M25 device connector, modular, angled				✓	✓	✓	✓	✓	
Cable assemblies	Connection cable Male – Free end	pre-assembled	pre-assembled	pre-assembled	✓	✓	✓	✓	✓	
	Connection cable Female – Free end	pre-assembled	pre-assembled	pre-assembled	✓	✓	✓	✓	✓	
	Extension cable Male – Female	pre-assembled	pre-assembled	pre-assembled	✓	✓	✓	✓	✓	
	Extension cable Male – Female	pre-assembled	pre-assembled	pre-assembled	✓	✓	✓	✓	✓	

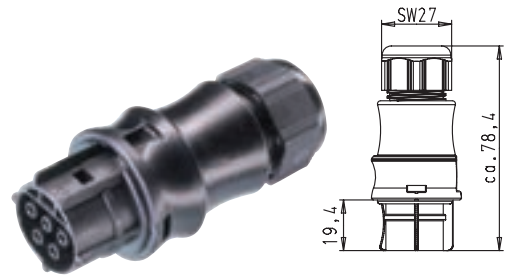
Connectors, straight for cables Ø 6 – 10 mm and 10 – 14 mm

Female connector

Unmounted with cable gland.

Crimp contacts separately available under Accessories.

See the Technical Data for sheath and insulation strip lengths.



with screw connection ¹⁾		with crimp connection	
Wire	mm ²	Wire	mm ²
rigid		fine-stranded	0.75 – 4.0
fine-stranded	0.75 – 4.0		
stranded	without ferrules		

Application	Coding	Cable diameter in mm	Color	Part No.	Part No.
Power 250/400V		6 – 10	gray	96.051.4053.0	96.151.0053.0
			black	96.051.4053.1	96.151.0053.1
Power 250V +Dimming		6 – 10	gray	96.051.4153.0	96.151.0153.0
			black	96.051.4153.1	96.151.0153.1
Switch.func. 250V		6 – 10	turquoise	96.051.4053.6	96.151.0053.6
			light blue	96.051.4153.6	96.151.0153.6
Extra-low voltage		6 – 10	gray	96.051.4053.9	96.151.0053.9
			black	96.051.4153.9	96.151.0153.9
Power 250/400V o. Ⓟ		6 – 10	signal	96.051.4051.4	96.151.0051.4
			brown	96.051.4151.4	96.151.0151.4
			yellow	96.051.4053.2	

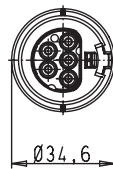
Contacts separately under Accessories, see following pages.

Male connector

Unmounted with cable gland and locking device.

Crimp contacts separately available under Accessories.

See the Technical Data for sheath and insulation strip lengths.



with screw connection ¹⁾		with crimp connection	
Wire	mm ²	Wire	mm ²
rigid		fine-stranded	0.75 – 4.0
fine-stranded	0.75 – 4.0	Locking device	yes
stranded	without ferrules		
Locking device	yes		

Application	Coding	Cable diameter in mm	Color	Part No.	Part No.
Power 250/400V		6 – 10	gray	96.052.4053.0	96.152.0053.0
			black	96.052.4053.1	96.152.0053.1
Power 250V +Dimming		6 – 10	gray	96.052.4153.0	96.152.0153.0
			black	96.052.4153.1	96.152.0153.1
Schaltfunk. 250V		6 – 10	turquoise	96.052.4053.6	96.152.0053.6
			light blue	96.052.4153.6	96.152.0153.6
Extra-low voltage		6 – 10	gray	96.052.4053.9	96.152.0053.9
			black	96.052.4153.9	96.152.0153.9
Power 250/400V o. Ⓟ		6 – 10	signal	96.052.4051.4	96.152.0051.4
			brown	96.052.4151.4	96.152.0151.4
			yellow	96.052.4053.2	

Contacts separately under Accessories, see following pages.

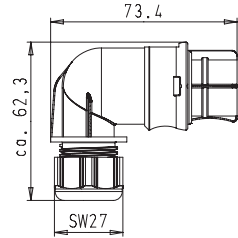
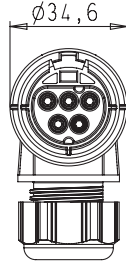
¹⁾ With wire protection available on request

Connectors, angled 90° for cables Ø 6 – 10 mm and 10 – 14 mm

Female connector

Unmounted with cable gland.
90° angle.

See the Technical Data for sheath and insulation strip length as well as the ferrules to be used.



with screw connection¹⁾

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0

Application	Coding	Cable diameter in mm	Color
Power 250/400V		⊕, N, 3, 2, 1	6 – 10 gray
			10 – 14 gray black
Power 250V +Dimming		L, ⊕, N, D1, D2	6 – 10 turquoise
			10 – 14 turquoise
Switch.func. 250V		1, 2, 3, 4, 5	6 – 10 light blue
			10 – 14 light blue
Extra-low voltage		1, 2, 3, 4, 5	6 – 10 signal
			10 – 14 brown

Part No.
96.053.4053.0
96.053.4053.1
96.053.4153.0
96.053.4153.1
96.053.4053.6
96.053.4153.6
96.053.4053.9
96.053.4153.9
96.053.4051.4
96.053.4151.4

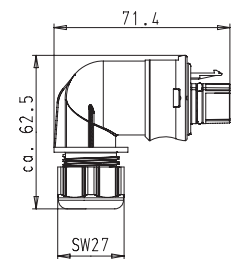
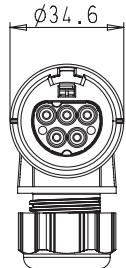
Part No.
96.153.0053.0
96.153.0053.1
96.153.0153.0
96.153.0153.1
96.153.0053.6
96.153.0153.6
96.153.0053.9
96.153.0153.9
96.153.0051.4
96.153.0151.4

Contacts separately under Accessories, see following pages.

Male connector

Unmounted with cable gland and locking device.
90° angle.

See the Technical Data for sheath and insulation strip length as well as the ferrules to be used.



with screw connection¹⁾

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Locking device	yes

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Locking device	yes

Application	Coding	Cable diameter in mm	Color
Power 250/400V		⊕, N, 3, 2, 1	6 – 10 gray
			10 – 14 gray black
Power 250V +Dimming		L, ⊕, N, D1, D2	6 – 10 turquoise
			10 – 14 turquoise
Switch.func. 250V		1, 2, 3, 4, 5	6 – 10 light blue
			10 – 14 light blue
Extra-low voltage		1, 2, 3, 4, 5	6 – 10 signal
			10 – 14 brown

Part No.
96.054.4053.0
96.054.4053.1
96.054.4153.0
96.054.4153.1
96.054.4053.6
96.054.4153.6
96.054.4053.9
96.054.4153.9
96.054.4051.4
96.054.4151.4

Part No.
96.154.0053.0
96.154.0053.1
96.154.0153.0
96.154.0153.1
96.154.0053.6
96.154.0153.6
96.154.0053.9
96.154.0153.9
96.154.0051.4
96.154.0151.4

Contacts separately under Accessories, see following pages.

¹⁾ With wire protection available on request

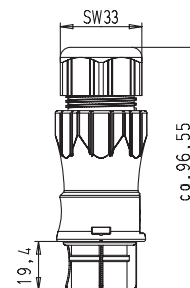
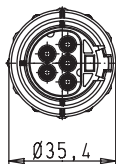
Connectors, straight for cable Ø 13 – 18 mm

Female connector

Unmounted with cable gland.

Crimp contacts separately available under Accessories.

See the Technical Data for sheath and insulation strip lengths.



with screw connection¹⁾

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0

Application	Coding	Cable diameter in mm	Color
Power 250/400V	⊕, N, 3, 2, 1	13 – 18	gray black
Power 250V +Dimming	L, ⊕, N, D1, D2	13 – 18	turquoise
Switch.func. 250V	1, 2, 3, 4, 5	13 – 18	light blue
Extra-low voltage	1, 2, 3, 4, 5	13 – 18	signal brown

Part No.
96.051.4553.0
96.051.4553.1
96.051.4553.6
96.051.4553.9
96.051.4551.4

Part No.
96.151.0553.0
96.151.0553.1
96.151.0553.6
96.151.0553.9
96.151.0551.4

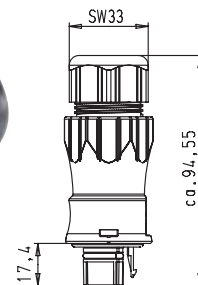
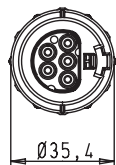
Contacts separately under Accessories, see following pages.

Male connector

Unmounted with cable gland and locking device.

Crimp contacts separately available under Accessories.

See the Technical Data for sheath and insulation strip lengths.



with screw connection¹⁾

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Locking device	yes

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Locking device	yes

Application	Coding	Cable diameter in mm	Color
Power 250/400V	⊕, N, 3, 2, 1	13 – 18	gray black
Power 250V +Dimming	L, ⊕, N, D1, D2	13 – 18	turquoise
Switch.func. 250V	1, 2, 3, 4, 5	13 – 18	light blue
Extra-low voltage	1, 2, 3, 4, 5	13 – 18	signal brown

Part No.
96.052.4553.0
96.052.4553.1
96.052.4553.6
96.052.4553.9
96.052.4551.4

Part No.
96.152.0553.0
96.152.0553.1
96.152.0553.6
96.152.0553.9
96.152.0551.4

Contacts separately under Accessories, see following pages.

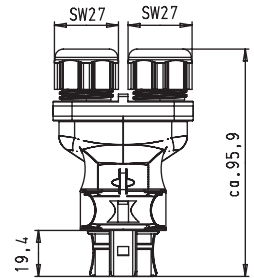
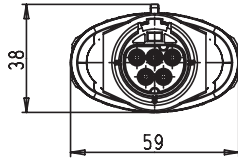
¹⁾ With wire protection available on request

Splitter connector, straight for cables Ø 6 – 10 mm and 10 – 14 mm

Female connector

Unmounted with cable glands.

See Technical Data for sheath and insulation strip lengths.

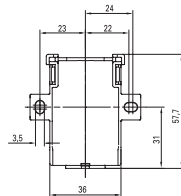
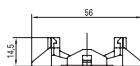


with screw connection¹⁾

Wire	mm ²
rigid	
fine-stranded	0.75 – 1.5
stranded	without ferrules

Application	Coding	Cable diameter in mm	Color	Part No.	
Power 250/400V		⊕, N, 3, 2, 1	6 – 10	gray	96.051.4253.0
			10 – 14	black	96.051.4253.1
Power 250V +Dimming		L, ⊕, N, D1, D2	6 – 10	gray	96.051.4353.0
			10 – 14	black	96.051.4353.1
Switch.func. 250V		1, 2, 3, 4, 5	6 – 10	turquoise	96.051.4253.6
			10 – 14	light blue	96.051.4353.6
Extra-low voltage		1, 2, 3, 4, 5	6 – 10	signal	96.051.4251.4
			10 – 14	brown	96.051.4351.4

Mounting plate for splitter connectors



Color	Part No.
■ gray	01.006.1553.0
■ black	01.006.1553.1

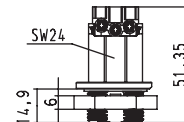
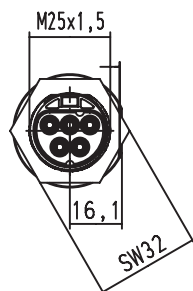
¹⁾ With wire protection available on request

M25 device connector straight, standard

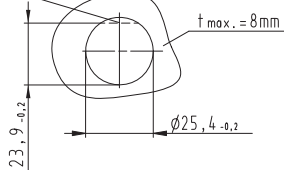
Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from outside.

Crimp contacts separately available under Accessories.
See the Technical Data for insulation strip lengths.
For spacer rings for unlocking the device connector, see Accessories.



wahlweise Verdrehsicherung
optional protection against twisting



with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M25 x 1.5
Gland	outside

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M25 x 1.5
Gland	outside

Contacts separately under Accessories, see following pages.

Application	Coding	Color
Power 250/400V	⊕, N, 3, 2, 1	gray black
Power 250V +Dimming	L, ⊕, N, D1, D2	turquoise
Switch.func. 250V	1, 2, 3, 4, 5	light blue
Extra-low voltage	1, 2, 3, 4, 5	signal brown
Power 250/400V o. ⊕	N, E, 1, 2, 3	yellow

Part No.
96.051.5053.0
96.051.5053.1
96.051.5053.6
96.051.5053.9
96.051.5051.4

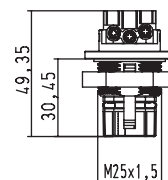
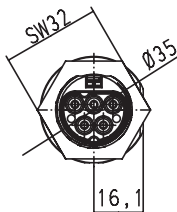
Part No.
96.151.1053.0
96.151.1053.1
96.151.1053.6
96.151.1053.9
96.151.1051.4
96.151.1053.2

Male connector

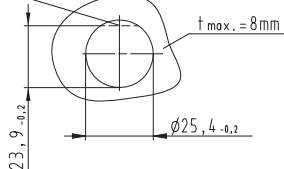
Correct positioning guaranteed due to flattened thread. With locking device.
Fastening with screws from outside.

Crimp contacts separately available under Accessories.

See the Technical Data for insulation strip lengths.



wahlweise Verdrehsicherung
optional protection against twisting



with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M25 x 1.5
Gland	outside
Locking device	yes

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M25 x 1.5
Gland	outside
Locking device	yes

Contacts separately under Accessories, see following pages.

Application	Coding	Color
Power 250/400V	⊕, N, 3, 2, 1	gray black
Power 250V +Dimming	L, ⊕, N, D1, D2	turquoise
Switch.func. 250V	1, 2, 3, 4, 5	light blue
Extra-low voltage	1, 2, 3, 4, 5	signal brown
Power 250/400V o. ⊕	N, E, 1, 2, 3	yellow

Part No.
96.052.5053.0
96.052.5053.1
96.052.5053.6
96.052.5053.9
96.052.5051.4

Part No.
96.152.1053.0
96.152.1053.1
96.152.1053.6
96.152.1053.9
96.152.1051.4
96.152.1053.2

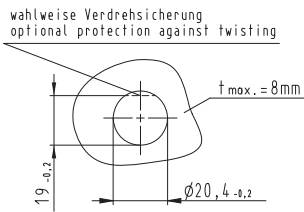
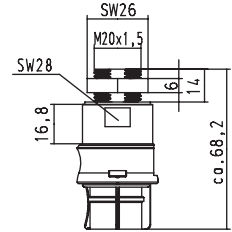
M20 device connector straight, modular

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.

Crimp contacts separately available under Accessories.

See the Technical Data for sheath and insulation strip lengths.



with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M20 x 1.5
Gland	inside

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M20 x 1.5
Gland	inside

Application	Coding	Color
Power 250/400V	⊕, N, 3, 2, 1	gray black
Power 250V +Dimming	L, ⊕, N, D1, D2	turquoise
Switch.func. 250V	1, 2, 3, 4, 5	light blue
Extra-low voltage	1, 2, 3, 4, 5	signal brown

Part No.
96.051.6053.0
96.051.6053.1
96.051.6053.6
96.051.6053.9
96.051.6051.4

Part No.
96.151.2053.0
96.151.2053.1
96.151.2053.6
96.151.2053.9
96.151.2051.4

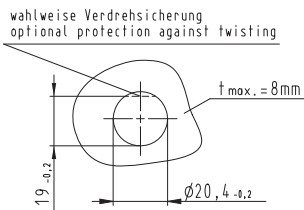
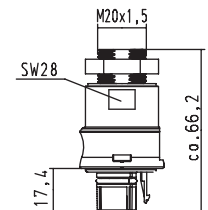
Contacts separately under Accessories, see following pages.

Male connector

Correct positioning guaranteed due to flattened thread. With locking device. Fastening with screws from inside.

Crimp contacts separately available under Accessories.

See the Technical Data for sheath and insulation strip lengths.



with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M20 x 1.5
Gland	inside
Locking device	yes

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M20 x 1.5
Gland	inside
Locking device	yes

Application	Coding	Color
Power 250/400V	⊕, N, 3, 2, 1	gray black
Power 250V +Dimming	L, ⊕, N, D1, D2	turquoise
Switch.func. 250V	1, 2, 3, 4, 5	light blue
Extra-low voltage	1, 2, 3, 4, 5	signal brown

Part No.
96.052.6053.0
96.052.6053.1
96.052.6053.6
96.052.6053.9
96.052.6051.4

Part No.
96.152.2053.0
96.152.2053.1
96.152.2053.6
96.152.2053.9
96.152.2051.4

Contacts separately under Accessories, see following pages.

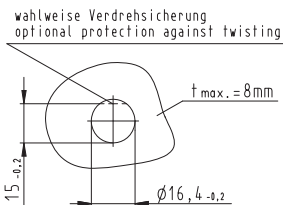
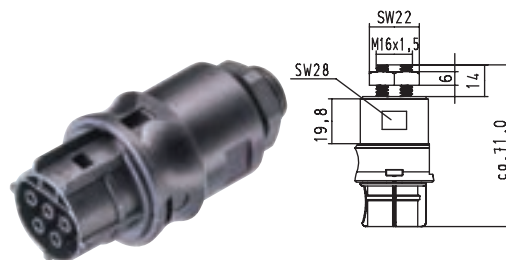
M16 device connector straight, modular

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.

Crimp contacts separately available under Accessories.

See the Technical Data for insulation strip lengths.



with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M16 x 1.5
Gland	inside

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M16 x 1.5
Gland	inside

Application	Coding	Color
Power 250/400V	⊕, N, 3, 2, 1	gray black
Power 250V +Dimming	L, ⊕, N, D1, D2	turquoise
Switch.func. 250V	1, 2, 3, 4, 5	light blue
Extra-low voltage	1, 2, 3, 4, 5	signal brown

Part No.
96.051.6153.0
96.051.6153.1
96.051.6153.6
96.051.6153.9
96.051.6151.4

Part No.
96.151.2153.0
96.151.2153.1
96.151.2153.6
96.151.2153.9
96.151.2151.4

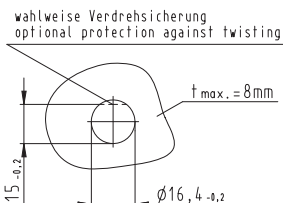
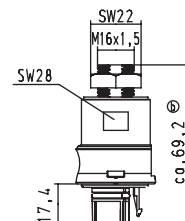
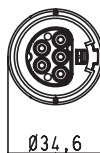
Contacts separately under Accessories, see following pages.

Male connector

Correct positioning guaranteed due to flattened thread. With locking device. Fastening with screws from inside.

Crimp contacts separately available under Accessories.

See the Technical Data for insulation strip lengths.



with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M16 x 1.5
Gland	inside
Locking device	yes

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M16 x 1.5
Gland	inside
Locking device	yes

Application	Coding	Color
Power 250/400V	⊕, N, 3, 2, 1	gray black
Power 250V +Dimming	L, ⊕, N, D1, D2	turquoise
Switch.func. 250V	1, 2, 3, 4, 5	light blue
Extra-low voltage	1, 2, 3, 4, 5	signal brown

Part No.
96.052.6153.0
96.052.6153.1
96.052.6153.6
96.052.6153.9
96.052.6151.4

Part No.
96.152.2153.0
96.152.2153.1
96.152.2153.6
96.152.2153.9
96.152.2151.4

Contacts separately under Accessories, see following pages.

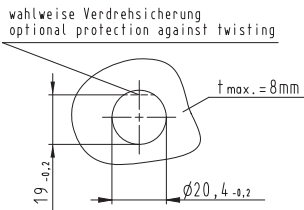
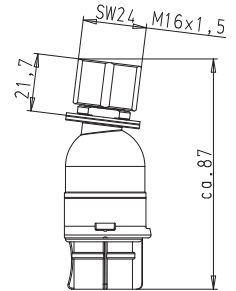
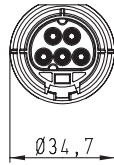
M16 device connector angled 7°, modular

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside. Angled 7°, thread M16.

Crimp contacts separately available under Accessories.

See the Technical Data for insulation strip lengths.



with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M16 x 1.5
Gland	inside

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M16 x 1.5
Gland	inside

Application	Coding	Color
Power 250/400V	⊕, N, 3, 2, 1	gray black
Power 250V +Dimming	L, ⊕, N, D1, D2	turquoise
Switch.func. 250V	1, 2, 3, 4, 5	light blue
Extra-low voltage	1, 2, 3, 4, 5	signal brown

Part No.
96.055.6153.0
96.055.6153.1
96.055.6153.6
96.055.6153.9
96.055.6151.4

Part No.
96.155.2153.0
96.155.2153.1
96.155.2153.6
96.155.2153.9
96.155.2151.4

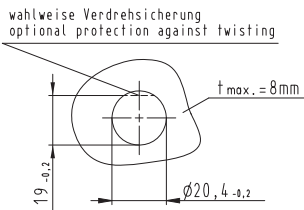
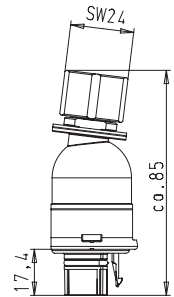
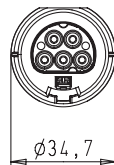
Contacts separately under Accessories, see following pages.

Male connector

Correct positioning guaranteed due to flattened thread. With locking device. Fastening with screws from inside. Angled 7°, thread M16.

Crimp contacts separately available under Accessories.

See the Technical Data for insulation strip lengths.



with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M16 x 1.5
Gland	inside
Locking device	yes

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M16 x 1.5
Gland	inside
Locking device	yes

Application	Coding	Color
Power 250/400V	⊕, N, 3, 2, 1	gray black
Power 250V +Dimming	L, ⊕, N, D1, D2	turquoise
Switch.func. 250V	1, 2, 3, 4, 5	light blue
Extra-low voltage	1, 2, 3, 4, 5	signal brown

Part No.
96.056.6153.0
96.056.6153.1
96.056.6153.6
96.056.6153.9
96.056.6151.4

Part No.
96.156.2153.0
96.156.2153.1
96.156.2153.6
96.156.2153.9
96.156.2151.4

Contacts separately under Accessories, see following pages.

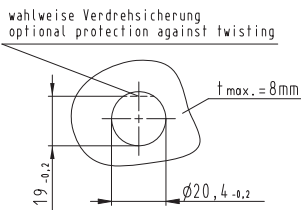
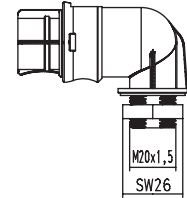
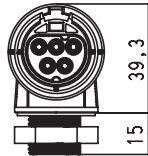
M20 device connector angled 90°, modular

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside.
Angled 90°, thread M20.

Crimp contacts separately available under Accessories.

See the Technical Data for insulation strip lengths.



with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M20 x 1.5
Gland	inside

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M20 x 1.5
Gland	inside

Application	Coding	Color
Power 250/400V	⊕, N, 3, 2, 1	gray black
Power 250V +Dimming	L, ⊕, N, D1, D2	turquoise
Switch.func. 250V	1, 2, 3, 4, 5	light blue
Extra-low voltage	1, 2, 3, 4, 5	signal brown

Part No.
96.053.6053.0
96.053.6053.1
96.053.6053.6
96.053.6053.9
96.053.6051.4

Part No.
96.153.2053.0
96.153.2053.1
96.153.2053.6
96.153.2053.9
96.153.2051.4

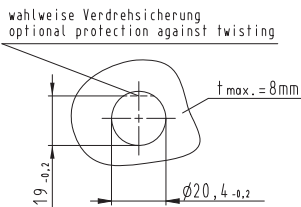
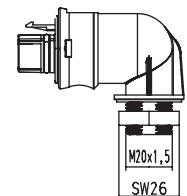
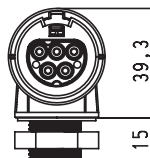
Contacts separately under Accessories, see following pages.

Male connector

Correct positioning guaranteed due to flattened thread. With locking device.
Fastening with screws from inside.
Angled 90°, thread M20.

Crimp contacts separately available under Accessories.

See the Technical Data for insulation strip lengths.



with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M20 x 1.5
Gland	inside
Locking device	yes

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M20 x 1.5
Gland	inside
Locking device	yes

Application	Coding	Color
Power 250/400V	⊕, N, 3, 2, 1	gray black
Power 250V +Dimming	L, ⊕, N, D1, D2	turquoise
Switch.func. 250V	1, 2, 3, 4, 5	light blue
Extra-low voltage	1, 2, 3, 4, 5	signal brown

Part No.
96.054.6053.0
96.054.6053.1
96.054.6053.6
96.054.6053.9
96.054.6051.4

Part No.
96.154.2053.0
96.154.2053.1
96.154.2053.6
96.154.2053.9
96.154.2051.4

Contacts separately under Accessories, see following pages.

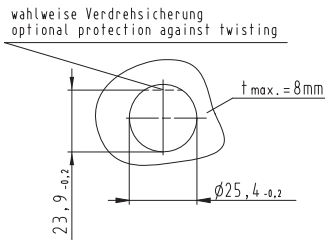
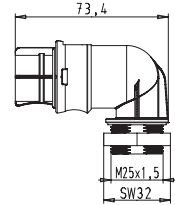
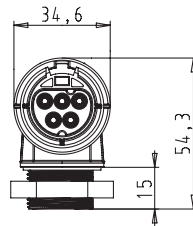
M25 device connector angled 90°, modular

Female connector

Correct positioning guaranteed due to flattened thread. Fastening with screws from inside. Angled 90°, thread M25.

Crimp contacts separately available under Accessories.

See the Technical Data for insulation strip lengths.



with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M25 x 1.5
Gland	inside

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M25 x 1.5
Gland	inside

Application	Coding	Color
Power 250/400V	⊕, N, 3, 2, 1	gray black
Power 250V +Dimming	L, ⊕, N, D1, D2	turquoise
Switch.func. 250V	1, 2, 3, 4, 5	light blue
Extra-low voltage	1, 2, 3, 4, 5	signal brown

Part No.
96.053.6253.0
96.053.6253.1
96.053.6253.6
96.053.6253.9
96.053.6251.4

Part No.
96.153.2253.0
96.153.2253.1
96.153.2253.6
96.153.2253.9
96.153.2251.4

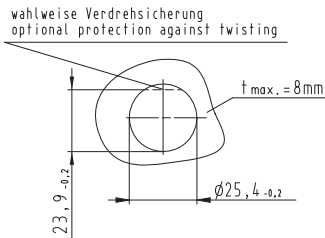
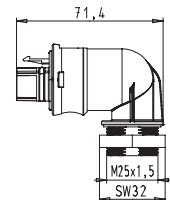
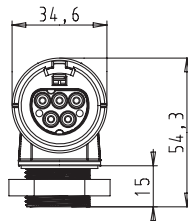
Contacts separately under Accessories, see following pages.

Male connector

Correct positioning guaranteed due to flattened thread. With locking device. Fastening with screws from inside. Angled 90°, thread M25.

Crimp contacts separately available under Accessories.

See the Technical Data for insulation strip lengths.



with screw connection

Wire	mm ²
rigid	
fine-stranded	0.75 – 4.0
stranded	without ferrules
Term. poles	1
Thread	M25 x 1.5
Gland	inside
Locking device	yes

with crimp connection

Wire	mm ²
fine-stranded	0.75 – 4.0
Term. poles	1
Thread	M25 x 1.5
Gland	inside
Locking device	yes

Application	Coding	Color
Power 250/400V	⊕, N, 3, 2, 1	gray black
Power 250V +Dimming	L, ⊕, N, D1, D2	turquoise
Switch.func. 250V	1, 2, 3, 4, 5	light blue
Extra-low voltage	1, 2, 3, 4, 5	signal brown

Part No.
96.054.6253.0
96.054.6253.1
96.054.6253.6
96.054.6253.9
96.054.6251.4

Part No.
96.154.2253.0
96.154.2253.1
96.154.2253.6
96.154.2253.9
96.154.2251.4

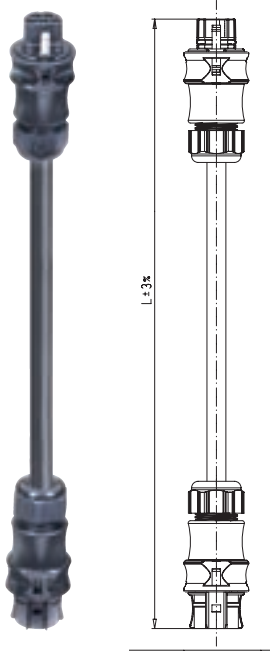
Contacts separately under Accessories, see following pages.

Cable assemblies

Cable 5 x 1.5 mm²; 16 A

Rated values		Pull relief	with gland nut
Wire ends	(open cable end)	ultrason. welded	
Sheath strip length	(open cable end)	35 mm	interlock
Wire strip length	(open cable end)	9 mm	Color cable
			black
		Color handle shell	black

Connection cables female – male

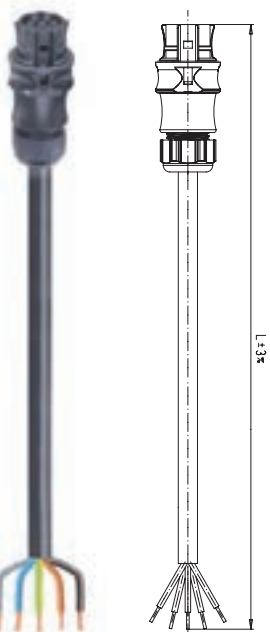


Cable	Length m	Part No.	
		Power 250V / 400V	Power 250V + Dimming
PVC cable H05VV-F containing halogen	1	96.452.1000.1	96.452.1000.6
	2	96.452.2000.1	96.452.2000.6
	3	96.452.3000.1	96.452.3000.6
	4	96.452.4000.1	96.452.4000.6
	5	96.452.5000.1	96.452.5000.6
	6	96.452.6000.1	96.452.6000.6
	7	96.452.7000.1	96.452.7000.6
	8	96.452.8000.1	96.452.8000.6

Cable	Length m	Part No.	
		Power 250V / 400V	Power 250V + Dimming
Rubber-sheathed cable H07RN-F containing halogen	1	96.452.1030.1	96.452.1030.6
	2	96.452.2030.1	96.452.2030.6
	3	96.452.3030.1	96.452.3030.6
	4	96.452.4030.1	96.452.4030.6
	5	96.452.5030.1	96.452.5030.6
	6	96.452.6030.1	96.452.6030.6
	7	96.452.7030.1	96.452.7030.6
	8	96.452.8030.1	96.452.8030.6

Cable	Length m	Part No.	
		Power 250V / 400V	Power 250V + Dimming
Rubber-sheathed cable H07RN-F enhanced version halogen-free	1	96.452.1050.1	
	2	96.452.2050.1	
	3	96.452.3050.1	
	4	96.452.4050.1	
	5	96.452.5050.1	
	6	96.452.6050.1	
	7	96.452.7050.1	
	8	96.452.8050.1	

Connection cables female – free end



Cable	Length m	Part No.	
		Power 250V / 400V	Power 250V + Dimming
PVC cable H05VV-F containing halogen	1	96.452.1003.1	96.452.1003.6
	2	96.452.2003.1	96.452.2003.6
	3	96.452.3003.1	96.452.3003.6
	4	96.452.4003.1	96.452.4003.6
	5	96.452.5003.1	96.452.5003.6
	6	96.452.6003.1	96.452.6003.6
	7	96.452.7003.1	96.452.7003.6
	8	96.452.8003.1	96.452.8003.6

Cable	Length m	Part No.	
		Power 250V / 400V	Power 250V + Dimming
Rubber-sheathed cable H07RN-F containing halogen	1	96.452.1033.1	96.452.1033.6
	2	96.452.2033.1	96.452.2033.6
	3	96.452.3033.1	96.452.3033.6
	4	96.452.4033.1	96.452.4033.6
	5	96.452.5033.1	96.452.5033.6
	6	96.452.6033.1	96.452.6033.6
	7	96.452.7033.1	96.452.7033.6
	8	96.452.8033.1	96.452.8033.6

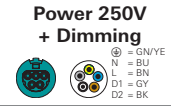
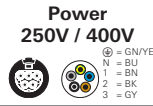
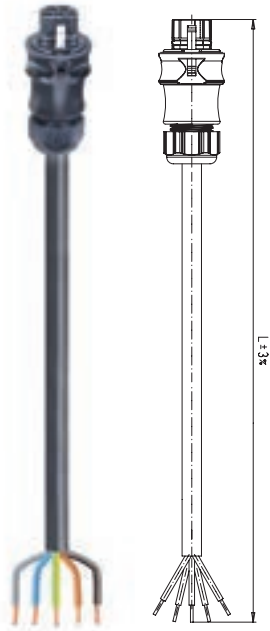
Cable	Length m	Part No.	
		Power 250V / 400V	Power 250V + Dimming
Rubber-sheathed cable H07RN-F enhanced version halogen-free	1	96.452.1053.1	
	2	96.452.2053.1	
	3	96.452.3053.1	
	4	96.452.4053.1	
	5	96.452.5053.1	
	6	96.452.6053.1	
	7	96.452.7053.1	
	8	96.452.8053.1	

Other cable lengths, other codings upon request

Cable assemblies

Cable 5 x 1.5 mm²; 16 A

Connection cables male – free end



Cable	Length m	Part No.	Part No.
PVC cable H05VV-F containing halogen	1	96.452.1004.1	96.452.1004.6
	2	96.452.2004.1	96.452.2004.6
	3	96.452.3004.1	96.452.3004.6
	4	96.452.4004.1	96.452.4004.6
	5	96.452.5004.1	96.452.5004.6
	6	96.452.6004.1	96.452.6004.6
	7	96.452.7004.1	96.452.7004.6
	8	96.452.8004.1	96.452.8004.6

Cable	Length m	Part No.	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1	96.452.1034.1	96.452.1034.6
	2	96.452.2034.1	96.452.2034.6
	3	96.452.3034.1	96.452.3034.6
	4	96.452.4034.1	96.452.4034.6
	5	96.452.5034.1	96.452.5034.6
	6	96.452.6034.1	96.452.6034.6
	7	96.452.7034.1	96.452.7034.6
	8	96.452.8034.1	96.452.8034.6

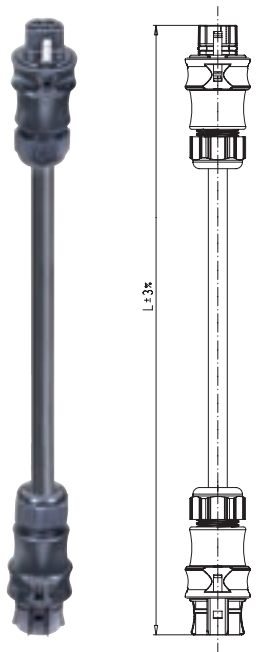
Cable	Length m	Part No.
Rubber-sheathed cable H07RN-F enhanced version halogen-free	1	96.452.1054.1
	2	96.452.2054.1
	3	96.452.3054.1
	4	96.452.4054.1
	5	96.452.5054.1
	6	96.452.6054.1
	7	96.452.7054.1
	8	96.452.8054.1

Cable assemblies

Cable 5 x 2.5 mm²; 20 A

Rated values			Pull relief	with gland nut
Wire ends	(open cable end)	ultrason. welded	Interlock	integrated
Sheath strip length	(open cable end)	35 mm	Color cable	black
Wire strip length	(open cable end)	9 mm	Color handle shell	black

Connection cables female – male

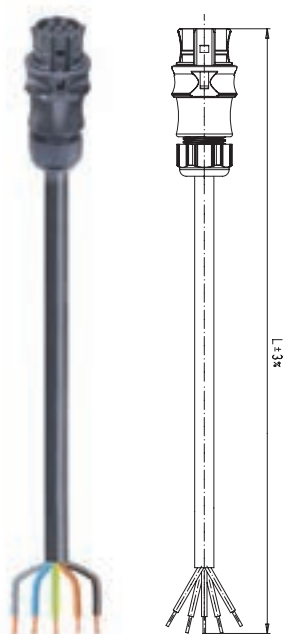


Cable	Length m	Power 250V / 400V	Power 250V + Dimming
		Part No.	Part No.
PVC cable H05VV-F containing halogen	1	96.453.1000.1	96.453.1000.6
	2	96.453.2000.1	96.453.2000.6
	3	96.453.3000.1	96.453.3000.6
	4	96.453.4000.1	96.453.4000.6
	5	96.453.5000.1	96.453.5000.6
	6	96.453.6000.1	96.453.6000.6
	7	96.453.7000.1	96.453.7000.6
	8	96.453.8000.1	96.453.8000.6

Cable	Length m	Power 250V / 400V	Power 250V + Dimming
		Part No.	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1	96.453.1030.1	96.453.1031.6
	2	96.453.2030.1	96.453.2031.6
	3	96.453.3030.1	96.453.3031.6
	4	96.453.4030.1	96.453.4031.6
	5	96.453.5030.1	96.453.5031.6
	6	96.453.6030.1	96.453.6031.6
	7	96.453.7030.1	96.453.7031.6
	8	96.453.8030.1	96.453.8031.6

Cable	Length m	Power 250V / 400V	Power 250V + Dimming
		Part No.	Part No.
Rubber-sheathed cable H07RN-F enhanced version halogen-free	1	96.453.1050.1	
	2	96.453.2050.1	
	3	96.453.3050.1	
	4	96.453.4050.1	
	5	96.453.5050.1	
	6	96.453.6050.1	
	7	96.453.7050.1	
	8	96.453.8050.1	

Connection cables female – free end



Cable	Length m	Power 250V / 400V	Power 250V + Dimming
		Part No.	Part No.
PVC cable H05VV-F containing halogen	1	96.453.1003.1	96.453.1003.6
	2	96.453.2003.1	96.453.2003.6
	3	96.453.3003.1	96.453.3003.6
	4	96.453.4003.1	96.453.4003.6
	5	96.453.5003.1	96.453.5003.6
	6	96.453.6003.1	96.453.6003.6
	7	96.453.7003.1	96.453.7003.6
	8	96.453.8003.1	96.453.8003.6

Cable	Length m	Power 250V / 400V	Power 250V + Dimming
		Part No.	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1	96.453.1033.1	96.453.1033.6
	2	96.453.2033.1	96.453.2033.6
	3	96.453.3033.1	96.453.3033.6
	4	96.453.4033.1	96.453.4033.6
	5	96.453.5033.1	96.453.5033.6
	6	96.453.6033.1	96.453.6033.6
	7	96.453.7033.1	96.453.7033.6
	8	96.453.8033.1	96.453.8033.6

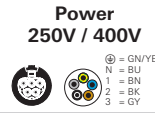
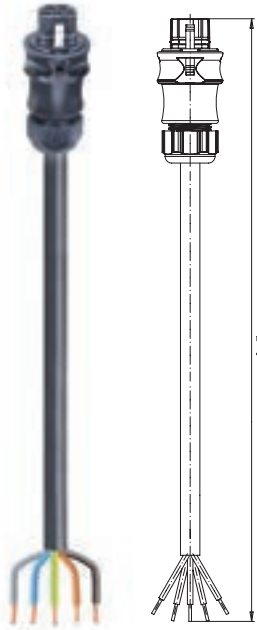
Cable	Length m	Power 250V / 400V	Power 250V + Dimming
		Part No.	Part No.
Rubber-sheathed cable H07RN-F enhanced version halogen-free	1	96.453.1053.1	
	2	96.453.2053.1	
	3	96.453.3053.1	
	4	96.453.4053.1	
	5	96.453.5053.1	
	6	96.453.6053.1	
	7	96.453.7053.1	
	8	96.453.8053.1	

Other cable lengths, other codings upon request

Cable assemblies

Cable 5 x 2.5 mm²; 20 A

Connection cables male – free end



Cable	Length m	Part No.	Part No.
PVC cable H05VV-F containing halogen	1	96.453.1004.1	96.453.1004.6
	2	96.453.2004.1	96.453.2004.6
	3	96.453.3004.1	96.453.3004.6
	4	96.453.4004.1	96.453.4004.6
	5	96.453.5004.1	96.453.5004.6
	6	96.453.6004.1	96.453.6004.6
	7	96.453.7004.1	96.453.7004.6
	8	96.453.8004.1	96.453.8004.6

Cable	Length m	Part No.	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1	96.453.1034.1	96.453.1034.6
	2	96.453.2034.1	96.453.2034.6
	3	96.453.3034.1	96.453.3034.6
	4	96.453.4034.1	96.453.4034.6
	5	96.453.5034.1	96.453.5034.6
	6	96.453.6034.1	96.453.6034.6
	7	96.453.7034.1	96.453.7034.6
	8	96.453.8034.1	96.453.8034.6

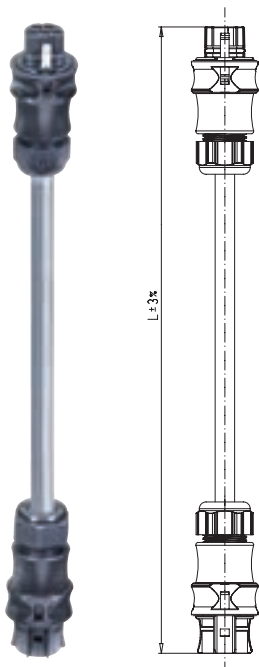
Cable	Length m	Part No.
Rubber-sheathed cable H07RN-F enhanced version halogen-free	1	96.453.1054.1
	2	96.453.2054.1
	3	96.453.3054.1
	4	96.453.4054.1
	5	96.453.5054.1
	6	96.453.6054.1
	7	96.453.7054.1
	8	96.453.8054.1

Cable assemblies

Cable 5 x 2.5 mm²; 20 A (Power 5-pole)

Rated values			Pull relief		with gland nut	
Wire ends	(open cable end)	ultrason. welded	Interlock		integrated	
Sheath strip length	(open cable end)	35 mm	Color cable		gray	
Wire strip length	(open cable end)	9 mm	Color handle shell		black	

Connection cables female – male

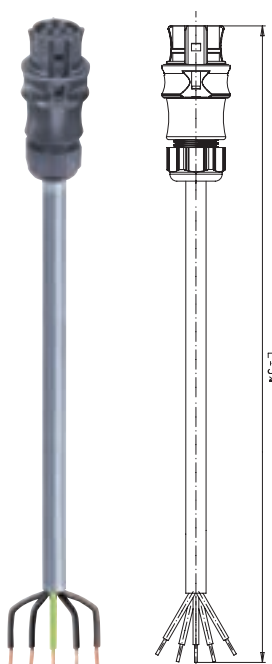


Power
250V



Cable	Length m	Part No.
Cable Ölflex Classic 110 containing halogen	1	96.453.1080.1
	2	96.453.2080.1
	3	96.453.3080.1
	4	96.453.4080.1
	5	96.453.5080.1
	6	96.453.6080.1
	7	96.453.7080.1
	8	96.453.8080.1

Connection cables female – free end



Power
250V

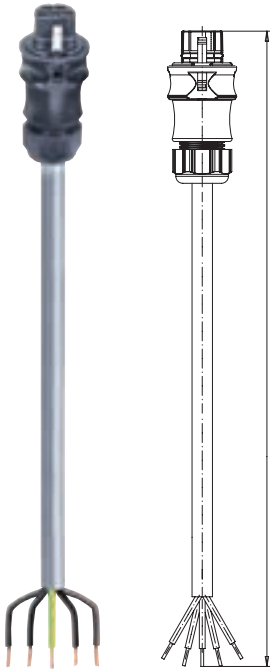


Cable	Length m	Part No.
Cable Ölflex Classic 110 containing halogen	1	96.453.1083.1
	2	96.453.2083.1
	3	96.453.3083.1
	4	96.453.4083.1
	5	96.453.5083.1
	6	96.453.6083.1
	7	96.453.7083.1
	8	96.453.8083.1

Cable assemblies

Cable 5 x 2.5 mm²; 20 A (Power 5-pole)

Connection cables male – free end



Power
250V



⊙ = GN/YE
1 = BK1
2 = BK2
3 = BK3

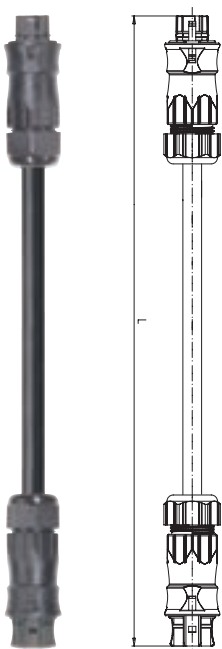
Cable	Length m	Part No.
Cable Ölflex Classic 110 containing halogen	1	96.453.1084.1
	2	96.453.2084.1
	3	96.453.3084.1
	4	96.453.4084.1
	5	96.453.5084.1
	6	96.453.6084.1
	7	96.453.7084.1
	8	96.453.8084.1

Cable assemblies

Cable 5 x 4.0 mm²; 20 A

Rated values			Pull relief	
Wire ends	(open cable end)	ultrason. welded		with gland nut
Sheath strip length	(open cable end)	35 mm	Interlock	integrated
Wire strip length	(open cable end)	9 mm	Color cable	black
			Color handle shell	black

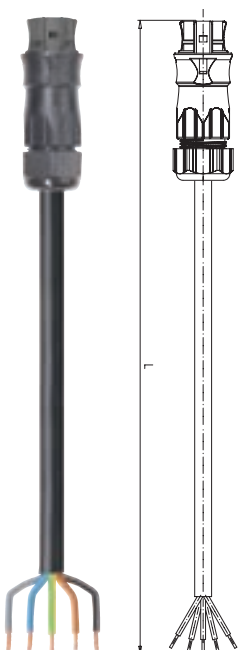
Connection cables female – male



Cable	Length m	Part No.	Part No.
PVC cable H05VV-F containing halogen	1	96.454.1000.1	96.454.1000.6
	2	96.454.2000.1	96.454.2000.6
	3	96.454.3000.1	96.454.3000.6
	4	96.454.4000.1	96.454.4000.6
	5	96.454.5000.1	96.454.5000.6
	6	96.454.6000.1	96.454.6000.6
	7	96.454.7000.1	96.454.7000.6
	8	96.454.8000.1	96.454.8000.6

Cable	Length m	Part No.	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1	96.454.1030.1	96.454.1031.6
	2	96.454.2030.1	96.454.2031.6
	3	96.454.3030.1	96.454.3031.6
	4	96.454.4030.1	96.454.4031.6
	5	96.454.5030.1	96.454.5031.6
	6	96.454.6030.1	96.454.6031.6
	7	96.454.7030.1	96.454.7031.6
	8	96.454.8030.1	96.454.8031.6

Connection cables female – free end



Cable	Length m	Part No.	Part No.
PVC cable H05VV-F containing halogen	1	96.454.1003.1	96.454.1003.6
	2	96.454.2003.1	96.454.2003.6
	3	96.454.3003.1	96.454.3003.6
	4	96.454.4003.1	96.454.4003.6
	5	96.454.5003.1	96.454.5003.6
	6	96.454.6003.1	96.454.6003.6
	7	96.454.7003.1	96.454.7003.6
	8	96.454.8003.1	96.454.8003.6

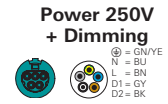
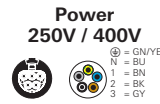
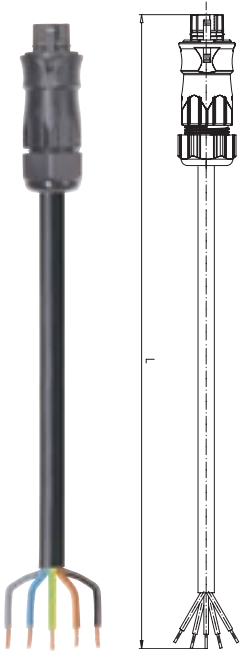
Cable	Length m	Part No.	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1	96.454.1033.1	96.454.1033.6
	2	96.454.2033.1	96.454.2033.6
	3	96.454.3033.1	96.454.3033.6
	4	96.454.4033.1	96.454.4033.6
	5	96.454.5033.1	96.454.5033.6
	6	96.454.6033.1	96.454.6033.6
	7	96.454.7033.1	96.454.7033.6
	8	96.454.8033.1	96.454.8033.6

Other cable lengths, other codings upon request

Cable assemblies

Cable 5 x 4.0 mm²; 20 A

Connection cables male – free end



Cable	Length m	Part No.	Part No.
PVC cable H05VV-F containing halogen	1	96.454.1004.1	96.454.1004.6
	2	96.454.2004.1	96.454.2004.6
	3	96.454.3004.1	96.454.3004.6
	4	96.454.4004.1	96.454.4004.6
	5	96.454.5004.1	96.454.5004.6
	6	96.454.6004.1	96.454.6004.6
	7	96.454.7004.1	96.454.7004.6
	8	96.454.8004.1	96.454.8004.6

Cable	Length m	Part No.	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1	96.453.1034.1	96.453.1034.6
	2	96.453.2034.1	96.453.2034.6
	3	96.453.3034.1	96.453.3034.6
	4	96.453.4034.1	96.453.4034.6
	5	96.453.5034.1	96.453.5034.6
	6	96.453.6034.1	96.453.6034.6
	7	96.453.7034.1	96.453.7034.6
	8	96.453.8034.1	96.453.8034.6

Distributors

RST compact distribution unit

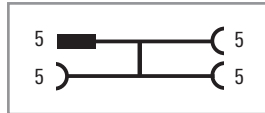
Dimensions 104 x 162 x 57.2 mm
Pre-wired with 2.5 mm²

3 outputs routing 230/400V, 20A
Mounting option

RST 20i5 Coding Color black
Yes



Circuit diagram



Color	Input	Outputs	Part No.
■ light grey	1	3	upon request
■ black	1	3	96.050.0153.1

RST multiple distribution unit

Dimensions 104 x 162 x 96 mm
Pre-wired with 2.5 mm²

Fitted as required with
Fuse

M25 device connector 2- up to 5-pole
6.3 or 10A can be integrated



Color	Input	Outputs	Part No.
■ black	1	7	upon request
■ black	1	5	96.050.2153.1

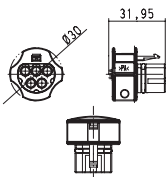
Accessories cover pieces

Cover pieces

For the safe closure of female and male connectors.

With mounting strap for snapping onto plug connectors and device connectors

for female



not captive against loss

Color	for female	for male
■ light grey	Part No. Z5.565.9853.0	Part No. 05.565.9953.0
■ black	Z5.565.9853.1	05.565.9953.1

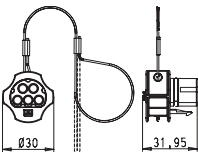
for male



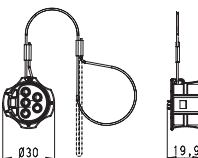
captive against loss

Color	for female	for male
■ light grey	Part No. 99.529.0000.7	Part No. 99.531.0000.7
■ black	99.530.0000.7	99.532.0000.7

for female



for male



Accessories

Female contacts and male contacts

Female contact



Male contact



Name	Marking	(groove) mm ²	Part No.
Female contact	None	0.75 – 1.0	02.125.5521.8
Female contact	1	1.5	02.125.5621.8
Female contact	2	2.5	02.125.5721.8
Female contact	3	4.0	02.125.5821.8
Male contact	None	0.75 – 1.0	05.545.0021.8
Male contact	1	1.5	05.545.0121.8
Male contact	2	2.5	05.545.0221.8
Male contact	3	4.0	05.545.0321.8

*available on straps or in magazines on request

Crimping tool



Name	Part No.
Crimping tool incl. system kit	95.101.0800.0
Crimping die B	05.502.2100.0
Contact positioner	05.502.3600.0

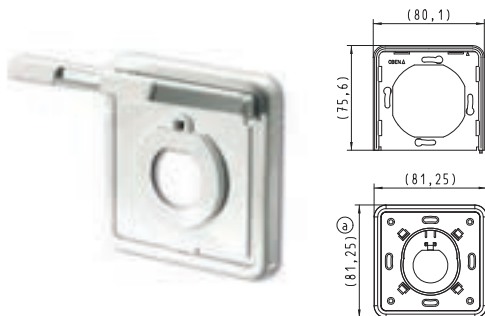
Extraction tool for crimp contacts



Name	Part No.
Extraction tool	05.502.3500.0

Socket frame for device connectors M25 (female)

Protection rating:	IP 44
RST 20 Approval:	2PfG1915, EN61535
Entry:	2- up to 5-pole



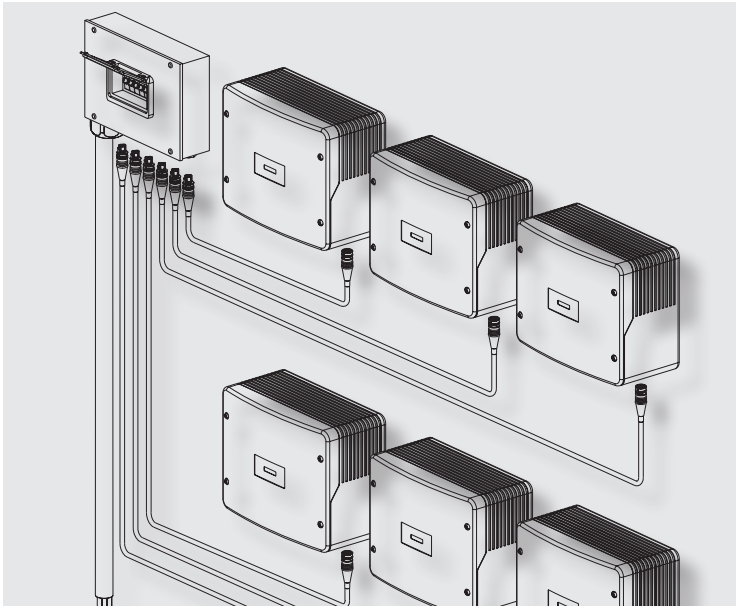
Color	Part No.
<input type="checkbox"/> white	99.400.9999.7





Solar applications up to 25 A for single-phase supply with three-phase power monitoring or three-phase supply

Application example



General

The system has been specially adapted to the requirements of solar technology.

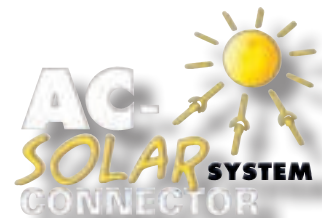
The connectors can be loaded with 25 A and are used for single-phase supply with power monitoring or three-phase supply.

Special distribution boxes are used to bundle the electrical power of up to 6 inverters and thus complete the system.

These connectors have their own mechanical coding. This means that only associated pairs of male and female can be connected with the correct polarity. This ensures a clear separation from the connectors of the other product series.

Features:

- Fast mounting through easy handling
- UV-resistant
- Rated current up to 25 A
- Cross-sections up to 6 mm²
- Degree of protection IP66/68 (3m; 2h) /69K

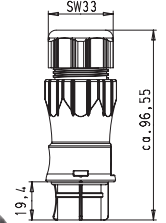
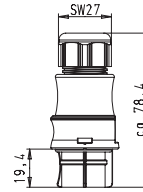


Coding

For daily updates visit the website at http://eshop.wieland-electric.com . Assembly instructions and other technical information can be found in the Technical Data or in eShop.				Application	3-phase power
				Mechanical coding, for example	250/400 V, 25 A L, N, ⊕, 1, 2
Name	Description	Connection style	Strain relief housing	Connection points per pole	concrete gray
Connector	1 x cable entry	Screw	yes	1	✓
Distribution units	Distribution box RST RAN Solar				✓
	Distribution box RST Solar				✓
Device connectors	M25 device connector, Standard				✓
Cable assemblies	Connection cable Male – Free end	pre-assembled	pre-assembled	pre-assembled	✓
	Connection cable Female – Free end	pre-assembled	pre-assembled	pre-assembled	✓
	Extension cable Male – Female	pre-assembled	pre-assembled	pre-assembled	✓

Connectors, straight for cables Ø 10 – 14 mm and 13 – 18 mm

Female connector



with screw connection for cables Ø 10 – 14 mm

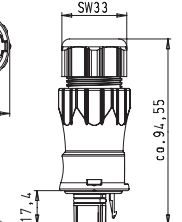
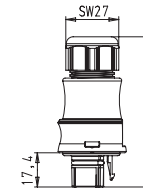
Wire	mm ²	
solid	up to 4.0	
fine-stranded		without ferrules

with screw connection for cables Ø 13 – 18 mm

Wire	mm ²	
solid	up to 6.0	
fine-stranded		without ferrules

Application	Coding	Color	Part No.	Cable Ø	Part No.	Cable Ø
3-phase power 250/400 V, 25 A	L, N, ⊕, 1, 2	concrete gray/ black	96.051.4154.3	4 mm ²	96.051.4554.3	4 mm ²
					99.575.0000.7	6 mm ²

Male connector



with screw connection for cables Ø 10 – 14 mm

Wire	mm ²	
solid	up to 4.0	
fine-stranded		without ferrules

with screw connection for cables Ø 13 – 18 mm

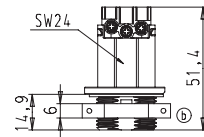
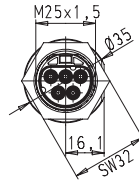
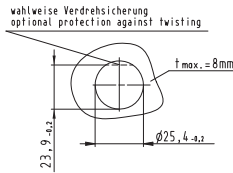
Wire	mm ²	
solid	up to 6.0	
fine-stranded		without ferrules

Application	Coding	Color	Part No.	Cable Ø	Part No.	Cable Ø
3-phase power 250/400 V, 25 A	L, N, ⊕, 1, 2	concrete gray/ black	96.052.4154.3	4 mm ²	96.052.4554.3	4 mm ²
					99.576.0000.7	6 mm ²

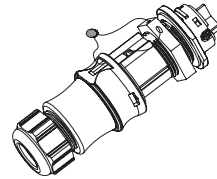
M25 device connector straight, standard

Female connector With sealing option

For spacer rings for unlocking the device connector, see Accessories.



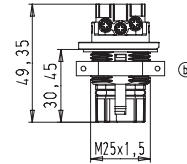
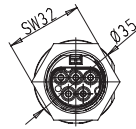
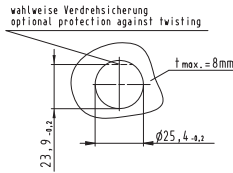
with screw connection		
Wire	mm ²	
solid	up to 4.0	
fine-stranded	up to 6.0	without ferrules



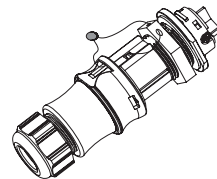
3-phase power 250/400V, 25A		L, N, ⊕ 1, 2	concrete gray/ black
--------------------------------	--	-----------------	-------------------------

96.051.5054.3	4 mm ²
99.577.0000.7	6 mm ²

Male connector With sealing option



with screw connection		
Wire	mm ²	
solid	up to 4.0	
fine-stranded	up to 6.0	without ferrules



3-phase power 250/400V, 25A		L, N, ⊕ 1, 2	concrete gray/ black
--------------------------------	--	-----------------	-------------------------

96.052.5054.3	4 mm ²
99.578.0000.7	6 mm ²

Distribution unit

RST-Distribution box RST RAN Solar

Inputs	6 x RST25i5 / concrete gray coding
Cable gland	1 x M40, 2 x M20

Connector clamps	3 x 35 mm ²
Circuit breakers	6 x B25
Dimensions in mm (L x W x H)	350 x 300 x 100 mm



Name	Color	Part No.
RST RAN Solar	Sheet metal/powder-coated	99.512.0000.7

Distribution box RST Solar

Inputs	3 x RST25i5 / concrete gray coding
Cable gland	1 x M32, 2 x M20

Connector clamps	5 x 10 mm ²
Dimensions in mm (L x W x H)	180 x 180 x 90 mm



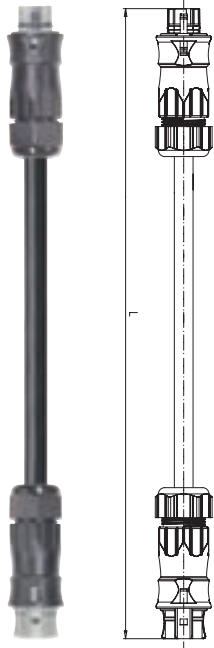
Name	Material	Part No.
Distribution box RST Solar	Plastic	99.502.0000.7

Cable assemblies

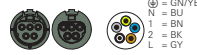
Cable 5 x 4.0 mm²; 25 A

Rated values			Pull relief	
Wire ends	(open cable end)	ultrason. welded		with gland nut
Sheath strip length	(open cable end)	35 mm	Interlock	integrated
Wire strip length	(open cable end)	9 mm	Color cable	black
			Color handle shell	black

Connection cables female – male



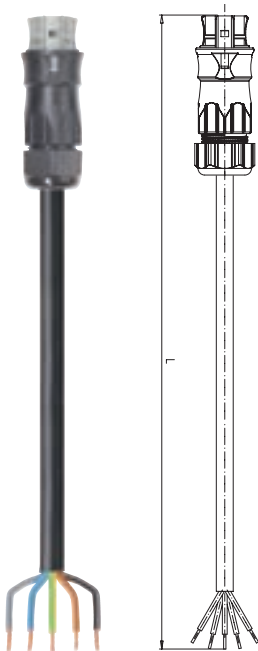
3-phase power
250/400 V, 25 A



Cable	Length m	Part No.
PVC cable H05VV-F containing halogen	1.0	96.854.1000.3
	1.5	96.854.1500.3
	2.0	96.854.2000.3
	2.5	96.854.2500.3
	3.0	96.854.3000.3
	3.5	96.854.3500.3
4.0	96.854.4000.3	

Cable	Length m	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1.0	96.854.1030.3
	1.5	96.854.1530.3
	2.0	96.854.2030.3
	2.5	96.854.2530.3
	3.0	96.854.3030.3
	3.5	96.854.3530.3
4.0	96.854.4030.3	

Connection cables female – free end



3-phase power
250/400 V, 25 A



Cable	Length m	Part No.
PVC cable H05VV-F containing halogen	1.0	96.854.1003.3
	1.5	96.854.1503.3
	2.0	96.854.2003.3
	2.5	96.854.2503.3
	3.0	96.854.3003.3
	3.5	96.854.3503.3
4.0	96.854.4003.3	

Cable diameter 14.3 mm ± 0.2
According to VDE 0281/T5 and
VDE 0288/T4

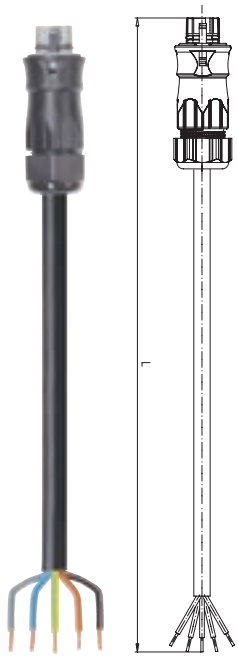
Cable	Length m	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1.0	96.854.1033.3
	1.5	96.854.1533.3
	2.0	96.854.2033.3
	2.5	96.854.2533.3
	3.0	96.854.3033.3
	3.5	96.854.3533.3
4.0	96.854.4033.3	

Cable diameter 17.0 mm ± 0.3
According to VDE 0281/T5 and
VDE 0288/T4

Cable assemblies

Cable 5 x 4.0 mm²; 25 A

Connection cables male – free end



3-phase power
250/400 V, 25 A



Cable	Length m	Part No.
PVC cable H05VV-F containing halogen	1.0	96.854.1004.3
	1.5	96.854.1504.3
	2.0	96.854.2004.3
	2.5	96.854.2504.3
	3.0	96.854.3004.3
	3.5	96.854.3504.3
4.0	96.854.4004.3	

Cable diameter 14.3 mm ± 0.2
According to VDE 0281/T5 and
VDE 0288/T4

Cable	Length m	Part No.
Rubber-sheathed cable H07RN-F containing halogen	1.0	96.854.1034.3
	1.5	96.854.1534.3
	2.0	96.854.2034.3
	2.5	96.854.2534.3
	3.0	96.854.3034.3
	3.5	96.854.3534.3
4.0	96.854.4034.3	

Cable diameter 17.0 mm ± 0.3
According to VDE 0281/T5 and
VDE 0288/T4

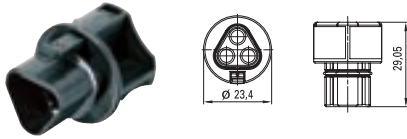
Cover pieces

Cover pieces

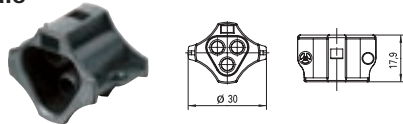
For the safe closure of female and male connectors.

With mounting strap for snapping onto plug connectors and device connectors

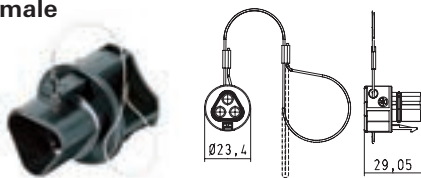
for female



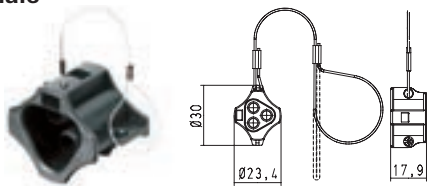
for male



for female



for male



not captive against loss

Color	for female Part No.	for male Part No.
■ light gray	Z5.564.4553.0	05.564.4453.0
■ black	Z5.564.4553.1	05.564.4453.1

captive against loss

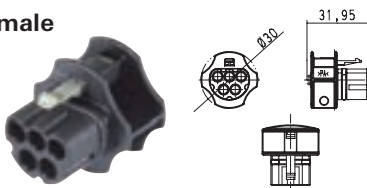
Color	for female Part No.	for male Part No.
■ light gray	99.413.6205.2	99.415.6205.2
■ black	99.414.6205.2	99.416.6205.2

Cover pieces

For the safe closure of female and male connectors.

With mounting strap for snapping onto plug connectors and device connectors

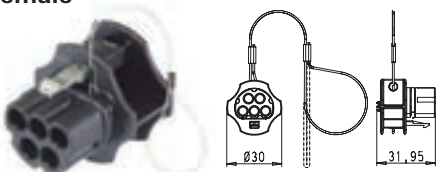
for female



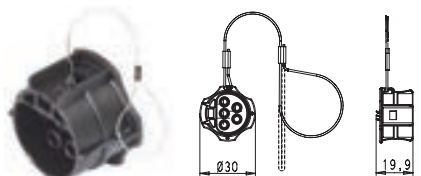
for male



for female



for male



not captive against loss

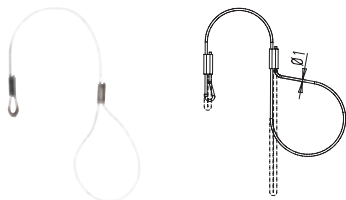
Color	for female Part No.	for male Part No.
■ light gray	Z5.565.9853.0	05.565.9953.0
■ black	Z5.565.9853.1	05.565.9953.1

captive against loss

Color	for female Part No.	for male Part No.
■ light gray	99.529.0000.7	99.531.0000.7
■ black	99.530.0000.7	99.532.0000.7

Mounting material

Fastening cord

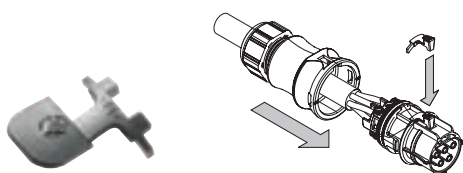


Color	Part No.
■ light gray	99.000.9950.6

Manual disconnect tool

Retrofitting of plug connectors (female only)

Poles 2- up to 5-pole



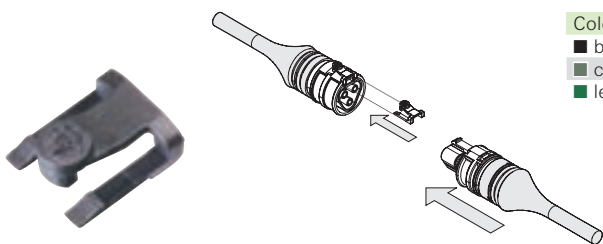
Color	Part No.
■ black	05.564.8653.1
■ concrete gray	05.564.8653.3
■ leaves green	05.564.8653.7

With the manual disconnect tool, only one button must be pressed to easily disconnect the connections.
Also see the Mounting Instructions!

Manual disconnect tool

Retrofitting of pre-assembled cables

Cable RST20i2, RST20i3
Model shrinkage tube



Color	Part No.
■ black	05.565.8653.1
■ concrete gray	05.565.8653.3
■ leaves green	05.565.8653.7

With the manual disconnect tool, only one button must be pressed to easily disconnect the connections.
Also see the Mounting Instructions!

Locking slide - Safety Clip

for replacement need, delivery quantity 100 pieces



Color	Part No.
■ black	05.583.2900.1
■ concrete gray	05.583.2900.3

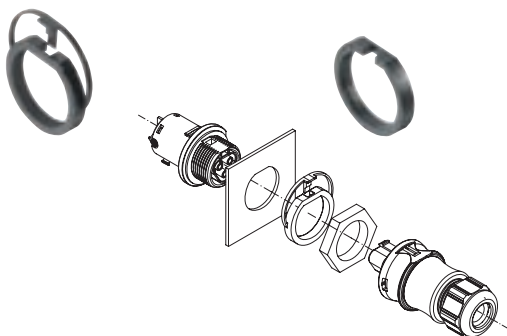
Note: The locking devices are integrated in the according plug parts at the factory. They click audibly when plugged in, confirming the safe connection. They are by default loosened with a screw driver or with the manual disconnect facility (can be ordered separately). In case of excessive tension on the connection these will loosen, however, to prevent hazards by wires pulled out of the contacts. This safety mechanism will lead to wear or destroy the slider, which should be replaced after having been activated several times.

Spacer ring for device connector M25, female connector 2- up to 5-pole

for replacement need

Manually actuated

Screwdriver actuated



Color	Part No.	
	manually actuated	with screwdriver
■ light gray	05.568.8853.0	05.566.5253.0
■ black	05.568.8853.1	05.566.5253.1

A spacer ring makes it possible to unlock a connection at the device connector (female).

RST® CLASSIC Crimp contacts

RST 3-pole

Female contacts and male contacts

Female contact



Male contact



Name	Marking	(groove) mm ²	Part No.
Female contact	1	0.75 – 1.0	02.122.9000.0
Female contact	None	1.5	02.122.9100.0
Female contact	1	2.5	02.122.9200.0
Female contact	None	4.0	02.122.9300.0
Male contact	1	0.75 – 1.0	05.544.7800.0
Male contact	None	1.5	05.544.7900.0
Male contact	1	2.5	05.544.8000.0
Male contact	None	4.0	05.545.4600.0

RST 4- and 5-pole

Female contacts and male contacts

Female contact



Male contact



Name	Marking	(groove) mm ²	Part No.
Female contact	None	0.75 – 1.0	02.125.5521.8
Female contact	1	1.5	02.125.5621.8
Female contact	2	2.5	02.125.5721.8
Female contact	3	4.0	02.125.5821.8
Male contact	None	0.75 – 1.0	05.545.0021.8
Male contact	1	1.5	05.545.0121.8
Male contact	2	2.5	05.545.0221.8
Male contact	3	4.0	05.545.0321.8

Extraction tool for crimp contacts



Name	Part No.
Extraction tool	05.502.3500.0

Crimping tool



Name	Part No.
Crimping tool incl. system kit	95.101.0800.0
Crimping die B	0.75 – 4.0 mm ² 05.502.2100.0
Contact positioner	05.502.3600.0

Tools, ferrules

Ferrule crimping tool for termination points with spring clamp technology

Cable end sleeves 0.08 – 6.0 mm², AWG 28 – 10
 Total length 174 mm
 Square compression; releasable latch; compression adjustable



Name	Part No.
Ferrule crimping tool	95.101.1300.0

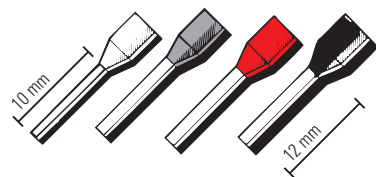
Cable end sleeves

Materials

Sleeve Polypropylene
 Temperature resistance up to 105 °C, tracking resistant
 Tube E-Cu, galvanically tin-plated

for RST 20i3 spring clamp connectors

Insulating sleeve Yes
 for wires
 0.50 mm² DIN 46228-E0,5-10
 0.75 mm² DIN 46228-E0,75-12
 1.00 mm² DIN 46228-E1,0-12
 1.50 mm² DIN 46228-E1,5-12



Name	mm ²	Color	Part No.
Cable end sleeves	0.50	white	06.600.3827.0
Cable end sleeves	0.75	gray	06.600.3727.0
Cable end sleeves	1.00	red	06.600.3627.0
Cable end sleeves	1.50	black	06.600.3927.0

Screwdriver according to DIN 5264

for RST spring clamp connections

Blade 0.4 – 2.5 mm



Name	Part No.
Screwdriver	06.502.4300.0

Sample kits

Sample kit RST 20i3 getting to know

- Contents:
- Connector
 - Device connector
 - Cover pieces



Name	Part No.
Sample set RST 20i3	99.429.0000.0

Sample kit RST 20i5 getting to know

- Contents:
- Connector
 - Device connector
 - Cover pieces



Name	Part No.
Sample kit RST 20i5	99.430.0000.0

Sample kit RST 20i2...i5 getting to know

- Contents:
- connectors, including all codings
 - device connectors
 - pre-assembled cables
 - distributors
 - Cover pieces



Name	Part No.
Sample set RST 20i2...i5 complete kit	99.431.0000.0

Sample kits

Sample set RST 20i3 getting to know

Contents: 1x X6.030.0153.1
1x X6.031.1053.0
1x X6.031.1053.1
1x X6.032.1053.0
1x X6.032.1053.1



Name	Part No.
ATEX , IECEx RST20i3	99.663.0000.0

Sample set RST 20i5 getting to know

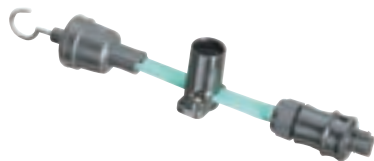
Contents: 1x X6.051.4153.0
1x X6.052.4153.0
1x X6.051.5053.1
1x X6.052.5053.0



Name	Part No.
ATEX RST 20i5	99.664.0000.0

Sample illumination cable getting to know

Contents: – connector RST 20i2, pre-assembled with illumination cable
– lamp base and end piece (no lamp)
The illumination cable is not a standard Wieland product.



Name	Part No.
Sample illumination cable	99.490.0000.0

Technical data **RST**[®] CLASSIC

	RST 20i2/i3	RST 25i3	RST 20i4/i5	RST 25i5
Rated voltage	250/400V	250V	250/400V	250/400V
Rated current	20A	25A 32A (with 6.0 mm ²)	20A	25A
Number of poles	2- or 3-poles	3-poles	4- or 5-poles	5-poles

Operating temperature:	-40° C to +100° C H05VV cable max 70 °C, H07RN-F max. 60 °C, H07 RN-F enhanced 90 °C
Ambient temperature:	-40° C up to +85° C
Material:	Contact parts: brass, surface-treated Housing parts: thermoplastic material PA 66, halogen-free, V2 Sealing material: NBR
Regulations:	IEC 61535 (VDE 0606); DIN EN 61984 (VDE 0627); VDE 0110 IEC 60999: UL 2238; CSA: C22.2 No.182.2-M1987; LR Type Approval System 2 PfG 1915
Pollution severity:	3 (when connected)
Plugging cycles:	as per IEC 61535 100x without load and 50x under nominal load (cos φ = 0.6) RST20i2/3 / RST25i3 provide up to 5,000 plugging cycles and RST20i4/5 / RST25i5 up to 3,000 plugging cycles without load. After approx. 600 plugging cycles, however, the sealing should be checked and, if required, re-lubricated with a suitable lubricant (e.g. Berulub FR 43 UV).
Approvals:	VDE; TÜV Rheinland; LR; GL; DNV; RINA; BV; ATEX; IECEx; CSA**; UL* (observe conditions of acceptability) * without cable assemblies in shrinkage tube technology and connectors with spring clamp technology ** without cable assemblies in shrinkage tube technology You can find the direct assignment of approvals and part numbers in the internet in the eShop under http://eshop.wieland-electric.com , or consult us.
Degree of protection:	IP65, IP66, IP67, IP68 (3m; 2 Stunden), IP69 K The installation instructions must be observed (see page with installation instructions)
IK code:	IK 07 (2 Joule)
Glow-wire test 850° C, 30 s:	for connectors, distribution units, cable assemblies and device connectors
Coding:	Mechanical coding symbolized by color code. Color gray and black with the same mechanical coding. Other codings are optional.

Note: Protection against shock generally guaranteed even when disconnected. Ground conductor leading. Connection to the live cable must be with a female connector according to the regulations. It is therefore not possible to have a ring circuit arrangement. Only pluggable in the correct pole configuration; 1 pole cannot be connected. Contacts protected against strain on the cable. All components can be interlocked.

A locking device is required for IEC 6153 approval.
DIN VDE 0606 T200 conformity does not automatically exclude the danger of confusion with third-party installation plug connector systems! Installation plug connector systems are no substitute for national plug/outlet systems for domestic use. IEC 60364-5-52 must be observed – see note under "Electrical installations with increased degree of protection".

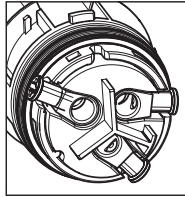
Wire preparation

RST 2- /3-pole

Insulation strip lengths and ferrules

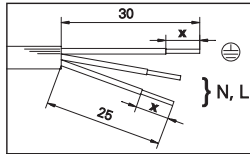
all lengths indicated in mm

Screw connection:

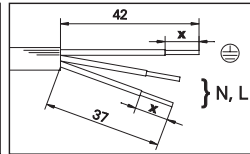


Screwdriver
PZ1
Rated torque:
0.8 – 1.0 Nm

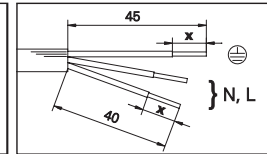
Connector
6 – 10 mm
10 – 14 mm



Connector
13 – 18 mm



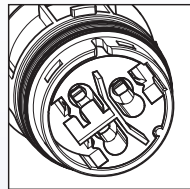
Splitter connector
max. 2 x 2.5 mm²!



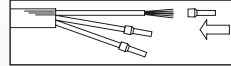
Insulation strip length X =

Conductor cross-section	0.75 mm ²	1.0 mm ²	1.5 mm ²	2.5 mm ²	4.0 mm ²	6.0 mm ²	AWG 12–18
solid	8	8	8	8	8	8	–
fine-stranded	8	8	8	8	8	8	–
stranded	8	8	8	8	8	8	8
ultrasonically compressed	8	8	8	8	8	8	–

Spring clamp connection:

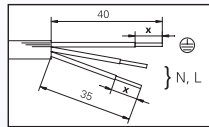


Fine-stranded and stranded wires

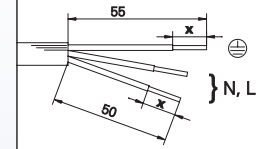


Ferrules required

Connector



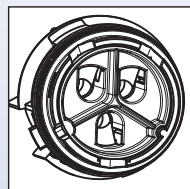
Splitter connector



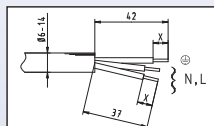
Insulation strip length X =

Conductor cross-section	0.5 mm ²	0.75 mm ²	1 mm ²	1.5 mm ²	2.5 mm ²
solid	14.5 + 1	14.5 + 1	14.5 + 1	14.5 + 1	14.5 + 1
fine-stranded	12.0 + 1	13.0 + 1	13.0 + 1	13.0 + 1	
Ferrules according to DIN	46228-E0.5-10	46228-E0.75-12	46228-E1.0-12	46228-E1.5-12	
stranded		13.0 + 1	13.0 + 1	13.0 + 1	
Ferrules according to DIN		46228-E0.75-12	46228-E1.0-12	46228-E1.5-12	
ultrasonically compressed				14.5 + 1	14.5 + 1

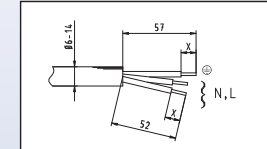
Crimp connection:



Connector 6 – 10 mm, 10 – 14 mm



Connector 13 – 18 mm



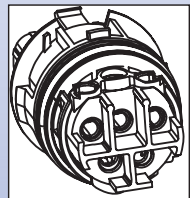
Insulation strip length X =

Conductor cross-section	0.75 mm ²	1.0 mm ²	1.5 mm ²	2.5 mm ²	4.0 mm ²
fine-stranded	8.0 + 1	8.0 + 1	8.0 + 1	8.0 + 1	8.0 + 1

RST 4 /5-pole

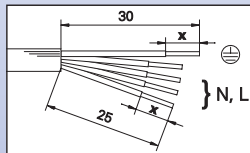
all lengths indicated in mm

Screw connection:

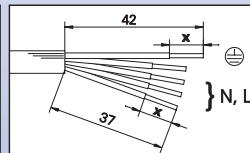


Screwdriver
PZ1
Rated torque:
0.5 – 0.7 Nm

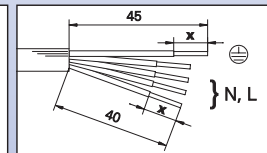
Connector
6 – 10 mm
10 – 14 mm



Connector
13 – 18 mm



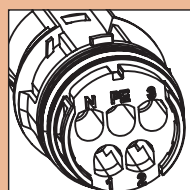
Splitter connector
max. 2 x 1.5 mm²!



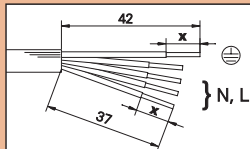
Insulation strip length X =

Conductor cross-section	0.75 mm ²	1.0 mm ²	1.5 mm ²	2.5 mm ²	4.0 mm ²	6.0 mm ²	AWG 12–18
solid	8	8	8	8	8	8	–
fine-stranded	8	8	8	8	8	8	–
stranded	8	8	8	8	8	8	8
ultrasonically compressed	8	8	8	8	8	8	–

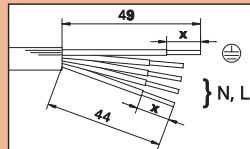
Crimp connection:



Connector
6 – 10 mm
10 – 14 mm



Connector
13 – 18 mm



Insulation strip length X =

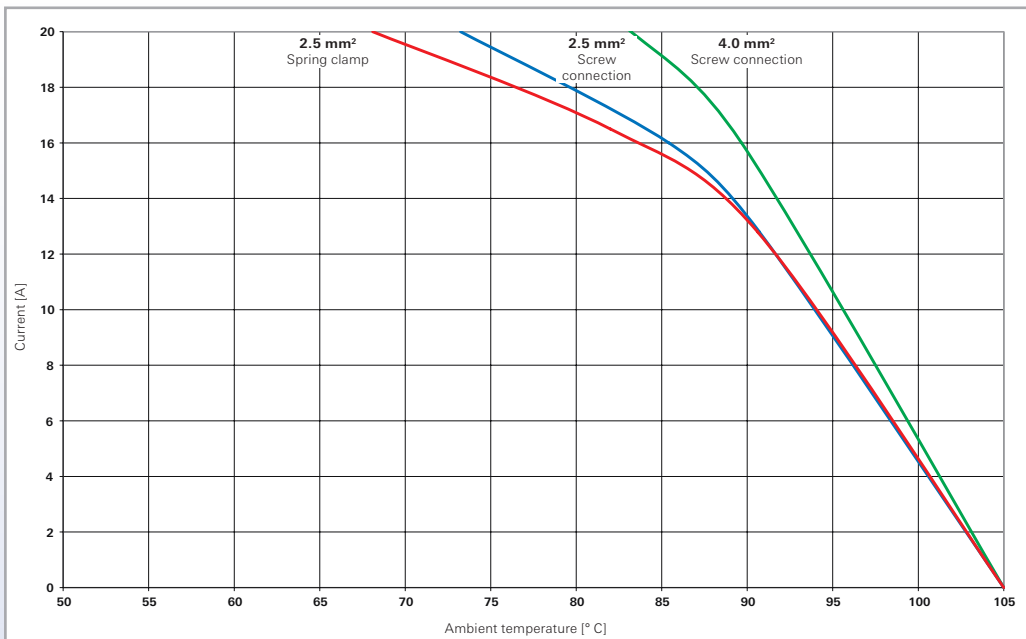
Conductor cross-section	0.75 mm ²	1.0 mm ²	1.5 mm ²	2.5 mm ²	4 mm ²
fine-stranded	7.0 + 1	7.0 + 1	7.0 + 1	7.0 + 1	7.0 + 1

Derating curves

RST 20i3

Screw connection – spring clamp connection

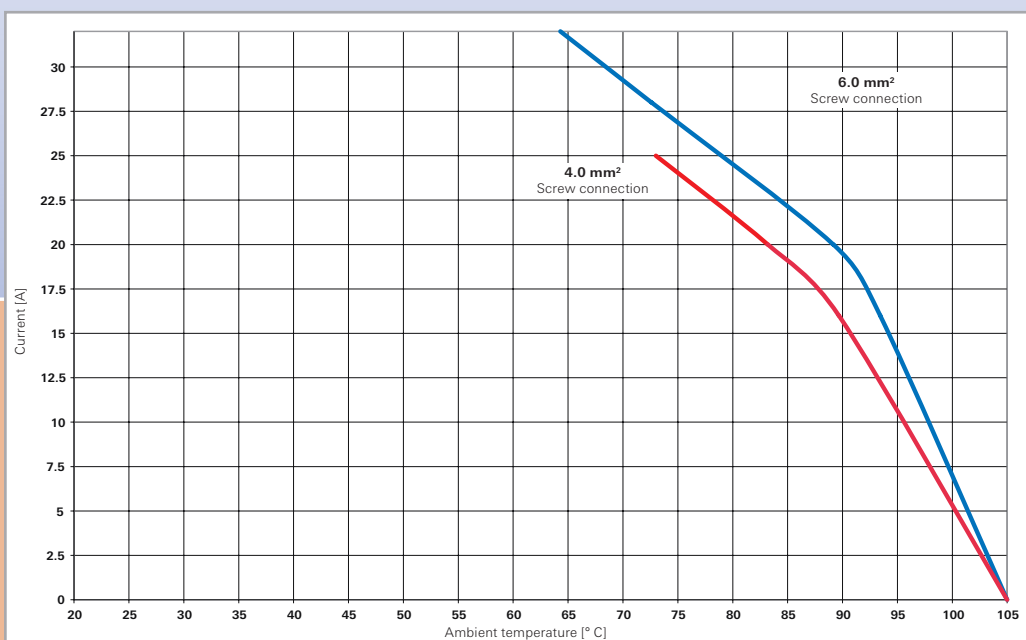
Derating curve according to IEC 61984 Edition 2 dated 10/2008 paragraph 7.3.8



RST 25i3

Screw connection

Derating curve according to IEC 61984 Edition 2 dated 10/2008 paragraph 7.3.8

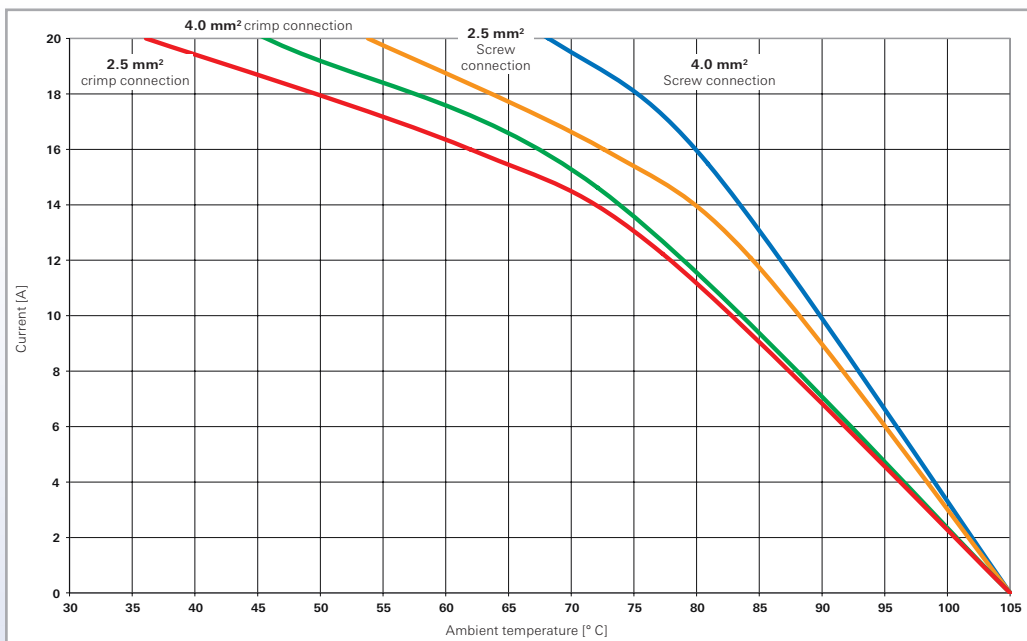


Derating curves

RST 20i5

Screw connection – crimp connection

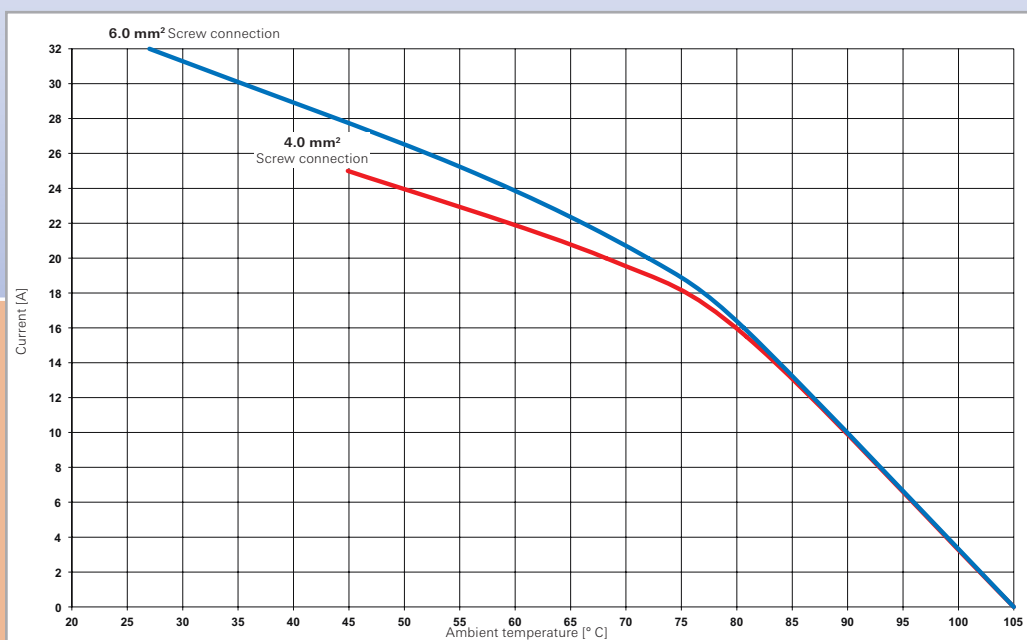
Derating curve according to IEC 61984 Edition 2 dated 10/2008 paragraph 7.3.8



RST 25i5

Screw connection

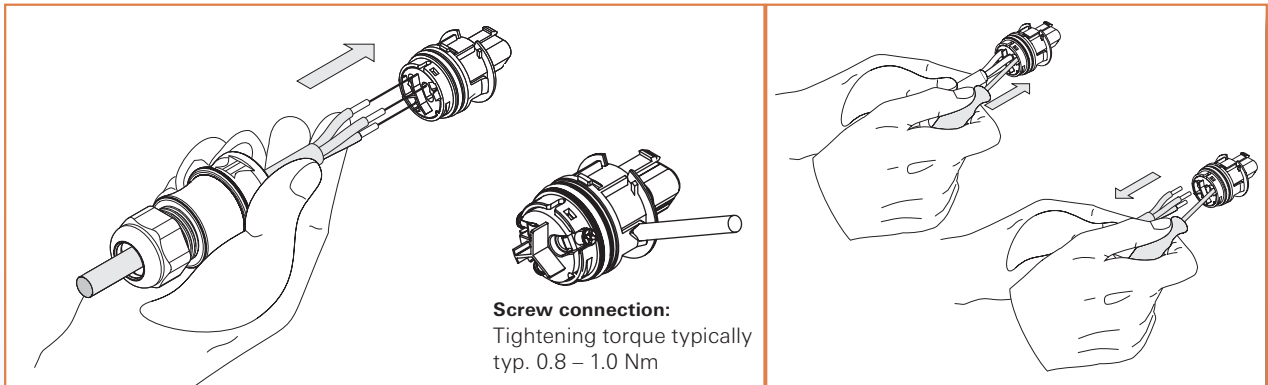
Derating curve according to IEC 61984 Edition 2 dated 10/2008 paragraph 7.3.8



Connectors 2- and 3-pole

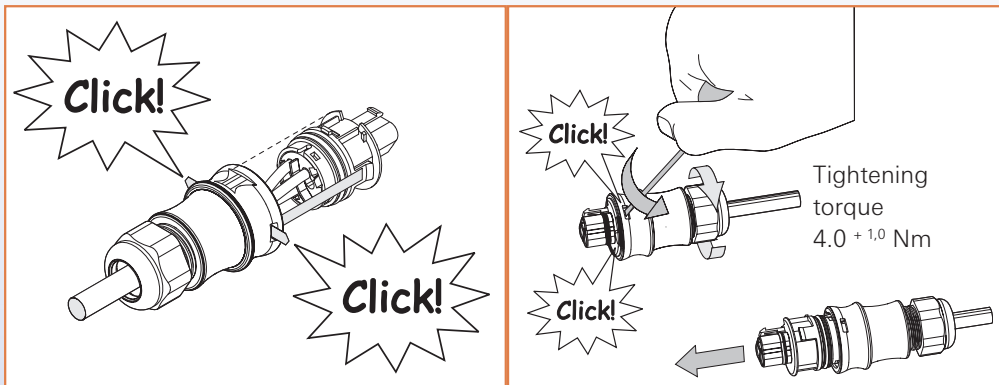
Connect the wires ...

... and disconnect them



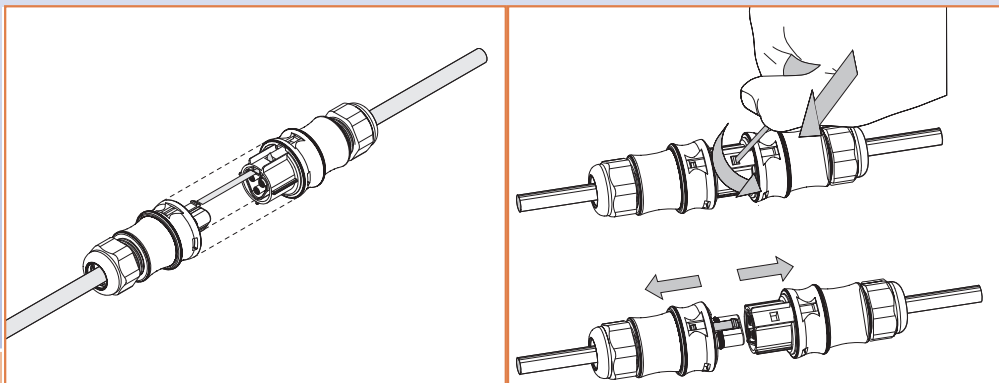
Close the connector ...

... and open it

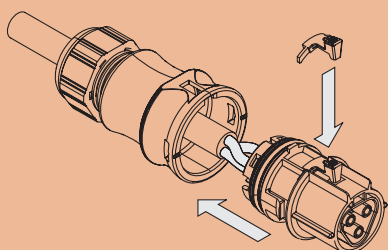


Lock the housing ...

... and unlock it

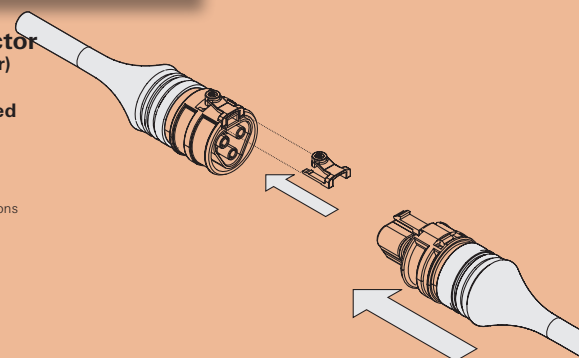


How to insert the (optional) manual disconnect tool into the connector (only possible for the female connector)



The manual disconnect tool can be used as an alternative and enables disconnecting without a tool.

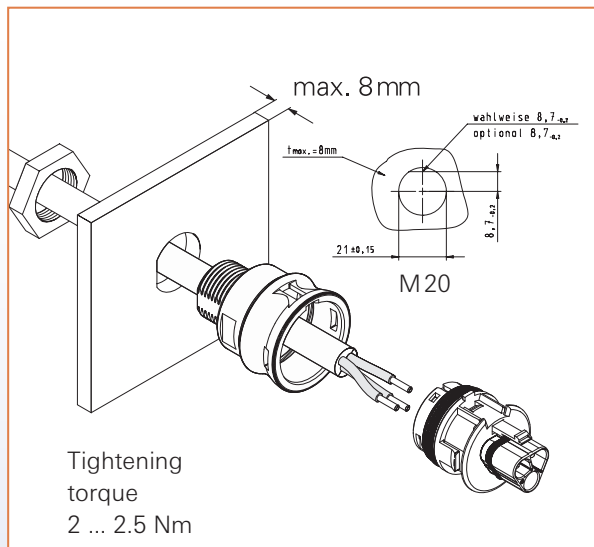
The descriptions on this page merely serve as an overview. For assembly and installation, only the installation instructions supplied together with the products are binding



Device connections 2- and 3-pole

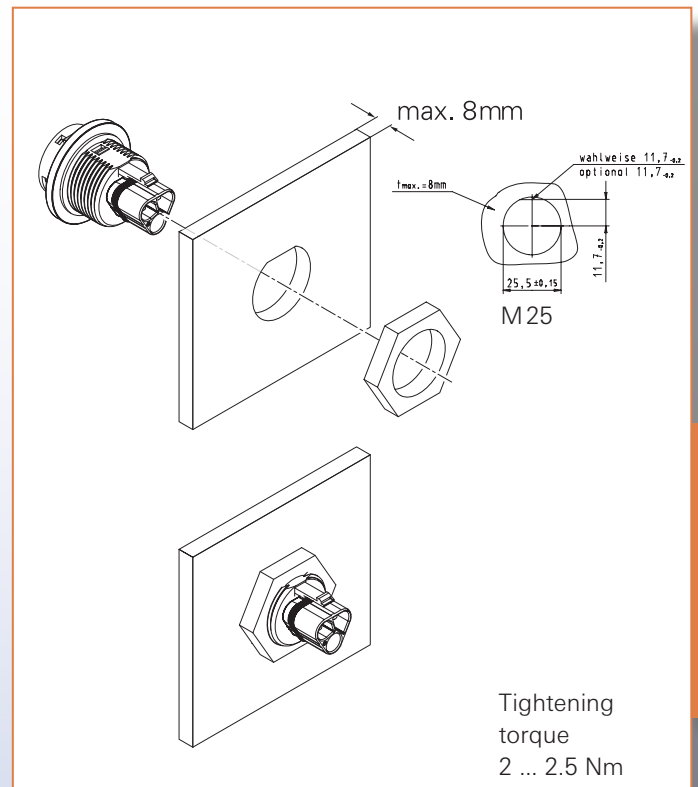
Installation of a standard system,
for M20 feed-through

Dimensions in mm



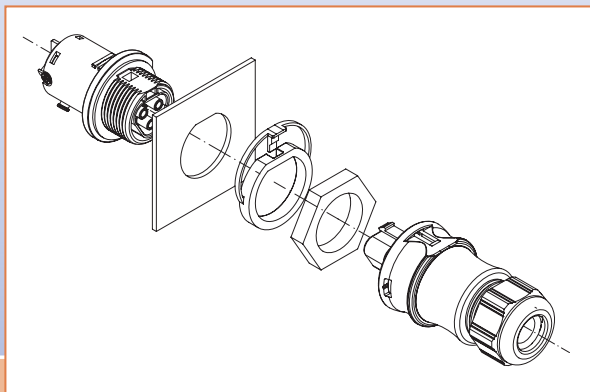
Installation of a standard system,
for M25 feed-through

Dimensions in mm



Note:

Effectiveness of the protection against twisting can only be guaranteed when the lower tolerance limit is ensured for the diameter of the hole.



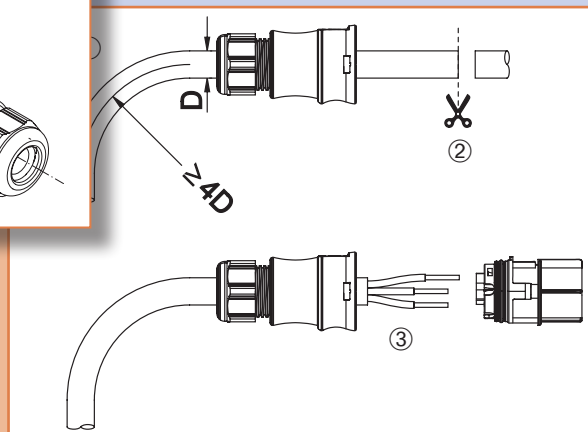
Bending radius (for conductors)

Note the minimum bending radius for conductors > 2.5 mm². Pull forces on the contact points can be avoided by proceeding as follows::

Bend the wire as required

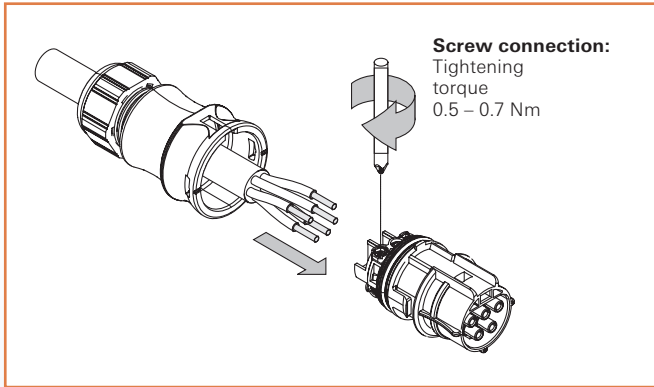
Cut the wire to length ②

Strip the cable and wires ③

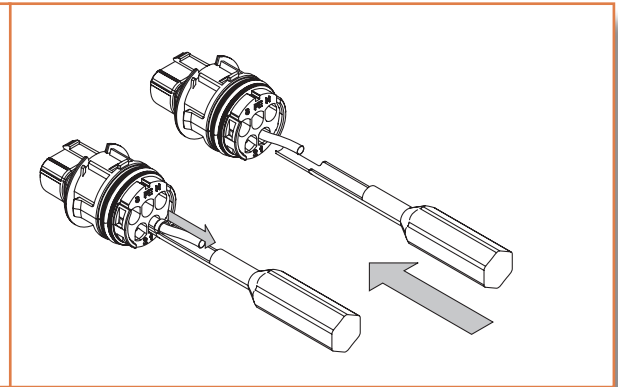


Connectors 4- and 5-pole

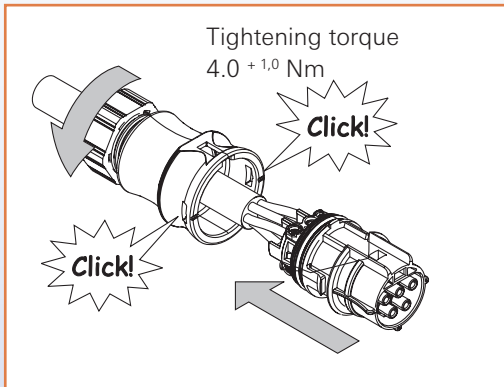
Connect the wires ...



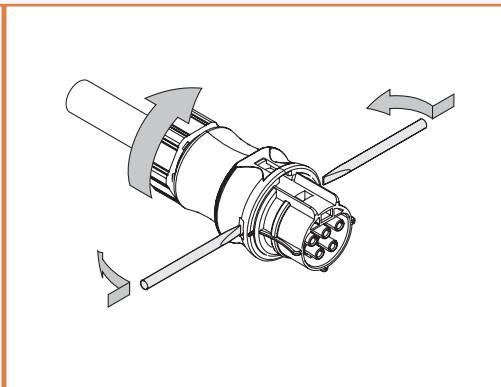
... and disconnect them



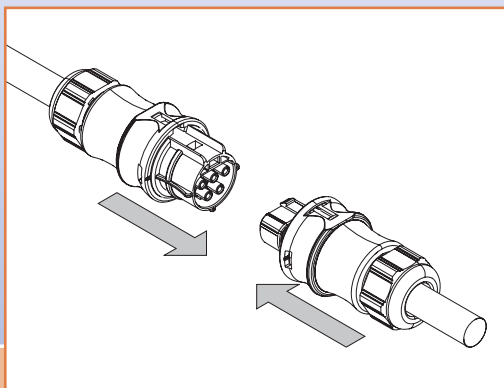
Close the connector ...



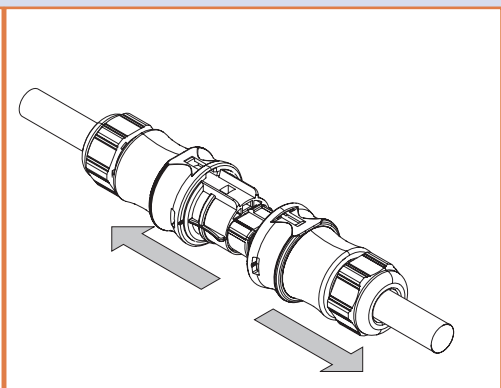
... and open it



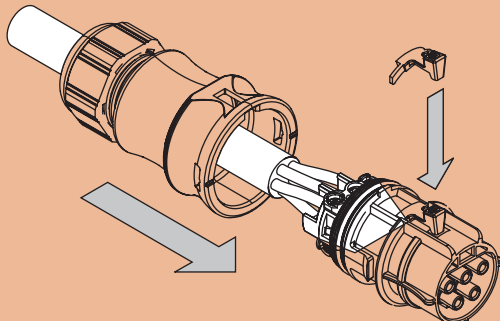
Lock the housing ...



... and unlock it



How to insert the (optional) manual disconnect tool into the connector (only possible for the female connector)



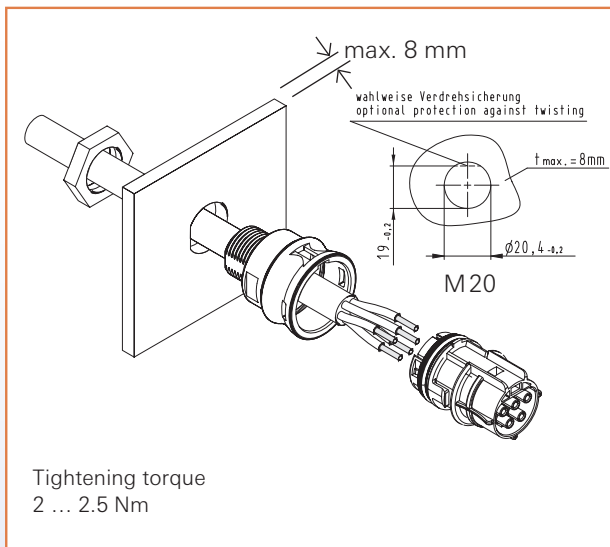
The manual disconnect tool can be used as an alternative and enables disconnecting without a tool.

The descriptions on this page merely serve as an overview. For assembly and installation, only the installation instructions supplied together with the products are binding.

Device connections 4- and 5-pole

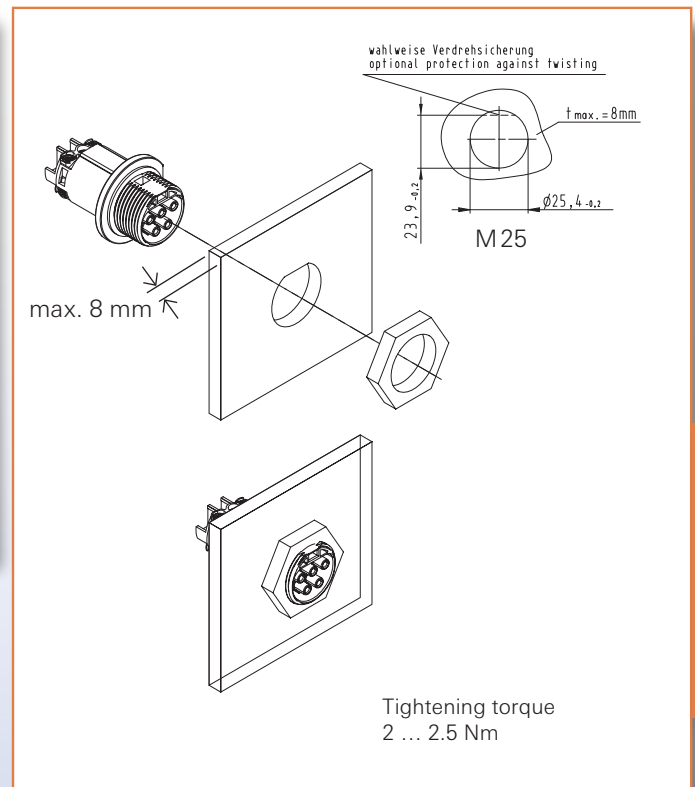
Installation of a standard system,
for M20 feed-through

Dimensions in mm



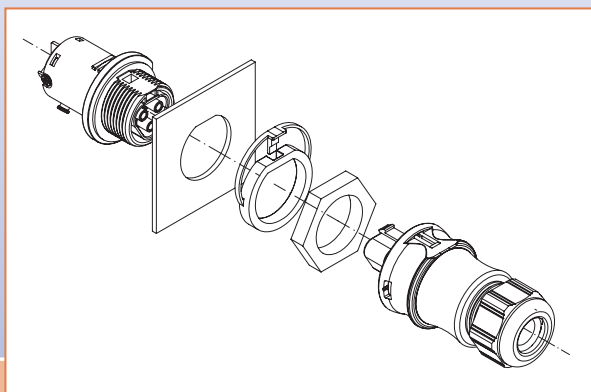
Installation of a standard system,
for M25 feed-through

Dimensions in mm



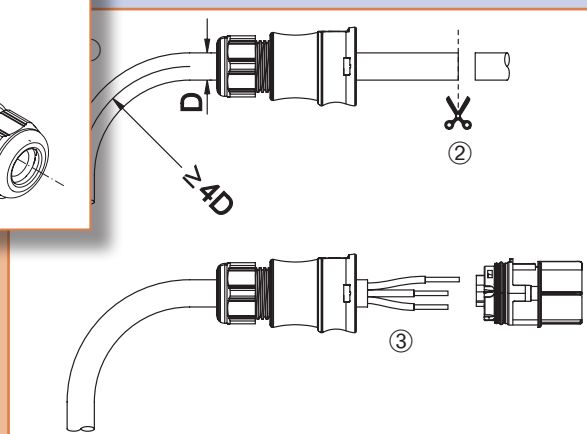
Note:

Effectiveness of the protection against twisting can only be guaranteed when the lower tolerance limit is ensured for the diameter of the hole.



Bending radius (for conductors)

Note the minimum bending radius for conductors > 2.5 mm². Pull forces on the contact points can be avoided by proceeding as follows::



Bend the wire as required

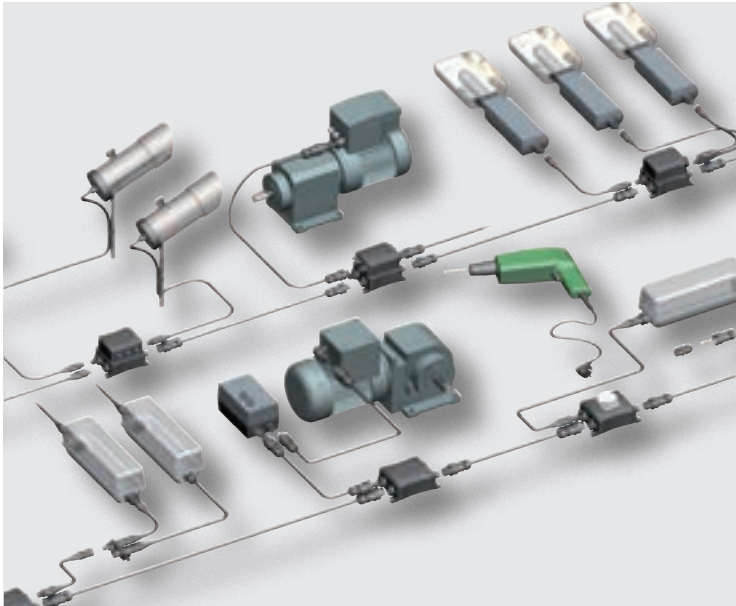
Cut the wire to length ②

Strip the cable and wires ③



Compact and multi-distribution units for use in rough environments

Application example



General

The pluggable distribution units play a major role in power distribution. In their simplest function, they merely have to provide branches in the required locations. Practice shows, however, that the requirements may be much more complex.

Examples can be found in AC and DC wiring through distribution units with microfuses up to boxes with integrated safety outlets or switches.



Compact and multi-distribution units

Flexibility according to the modular *RST*[®] principle

The highest level of flexibility!

Two housing variations are the basis: a flat design with up to four slots, and a high design with a total of up to eight slots. Unused slots are closed at the factory.

The distribution units are equipped individually with suitable device connectors.

These connectors are available in various pole configurations, with

mechanical coding and designs; they are wired to customer's requirements.

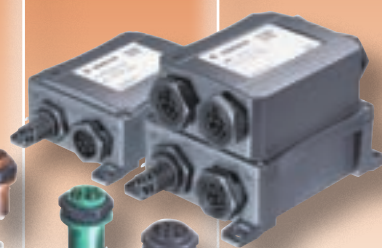
Overview of the standard components:

Depending on the application, you can choose among 30 codings from the range of *RST*[®] CLASSIC and *RST*[®] MINI. Mechanically coded means that only the matching male and female connectors can be plugged together. Thus you

can be sure that your different applications are clearly distinguished – without having to rework incorrect connections. The connector colors signal the matching connections. The standard power coding is an exception. Here you can select between black and gray.

These are compatible with one another.

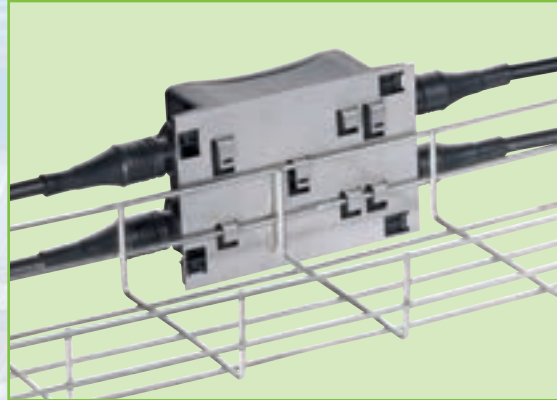
RST16i2/3	RST16i4/5	RST20i2	RST20i3	RST20i4	RST20i5	RST25i3
SKII L, N	Motor connection 1, 2, 3, PE	Protection class II L, N	Power 250V L, N, PE	Power 250/400V L, N, PE	Power 250/400V L, N, PE, D1, D2	Single-phase supply (ENS) L, N, PE
250/400V without PE 1, 2	Extra-low voltage (50V-120V-) 1, 2, 3, 4	LV, signals bus, 50 V 1, 2	Power 250/400V 1, 2, PE	LV, signals bus, 50 V 1, 2, PE	LV, signals bus, 50 V 1, 2, 3, 4, 5	AC-SOLAR SYSTEM CONNECTOR
Dimming D1, D2	Power 1, 2, 3, N, PE	AS-i +, -	LV, signals bus, 50 V 1, 2, PE	AS-i / 24V 1, 2, 3, 4	Power 250V + dimming L, N, PE, D1, D2	RST25i5
Extra-low voltage (50V-120V-) 1, 2	Power/Dimming L, N, PE, 1, 2	Switch. function 230V 1, 2, 3	Switch. function 230V 1, 2, 3	Switch. function 230V 1, 2, 3, 4, 5	Single-phase power with 3-phase monitoring or three-phase power with 3-phase monitoring L, N, PE, 1, 2	AC-SOLAR SYSTEM CONNECTOR
Power L, N, PE	250/400V with PE 1, 2, PE	AS-i +, -	Switch. function 230V 1, 2, 3	Switch. function 230V 1, 2, 3, 4, 5	Power 250/400V without L, N, E, 1, 2, 3	AC-SOLAR SYSTEM CONNECTOR
250/400V with PE 1, 2, PE	Power/Dimming L, N, PE, 1, 2	AS-i +, -	Switch. function 230V 1, 2, 3	Switch. function 230V 1, 2, 3, 4, 5	Power 250/400V without L, N, E, 1, 2, 3	AC-SOLAR SYSTEM CONNECTOR
250/400V without PE 1, 2, 3	250/400V without PE 1, 2, 3, 4, 5	AS-i +, -	Switch. function 230V 1, 2, 3	Switch. function 230V 1, 2, 3, 4, 5	Power 250/400V without L, N, E, 1, 2, 3	AC-SOLAR SYSTEM CONNECTOR
Dimming with PE D1, D2, PE	Extra-low voltage (50V-120V-) 1, 2, 3, 4, 5	AS-i +, -	Switch. function 230V 1, 2, 3	Switch. function 230V 1, 2, 3, 4, 5	Power 250/400V without L, N, E, 1, 2, 3	AC-SOLAR SYSTEM CONNECTOR
Extra-low voltage (50V-120V-) 1, 2, 3	Extra-low voltage (50V-120V-) 1, 2, 3, 4, 5	AS-i +, -	Switch. function 230V 1, 2, 3	Switch. function 230V 1, 2, 3, 4, 5	Power 250/400V without L, N, E, 1, 2, 3	AC-SOLAR SYSTEM CONNECTOR



Mounting

Four fixing clips on the outside ensure easy installation and safe fixation.

At the bottom, there are extra fixing holes for attachment of a special mounting plate.



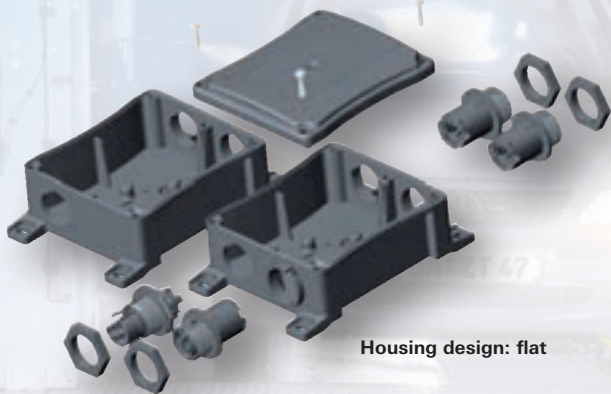
Unlocking

All pluggable connections are protected against accidental loosening. This is guaranteed by a locking facility integrated during production. On plug-in, the locking facility latches with an audible click. The connection is released using a screwdriver.

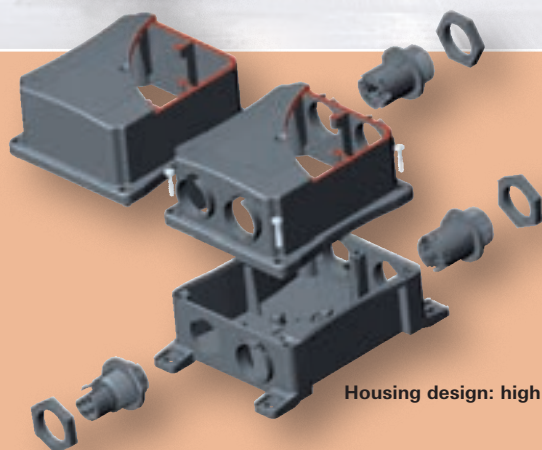


Cover pieces

Cover pieces are required for safely covering unused outputs. These are available either with or without protection against loss.



Housing design: flat



Housing design: high

Circuit diagram

A circuit diagram on the housing cover provides information about the internal wiring. The outputs are numbered from X1 to X8.



Compact distribution units with max. 4 slots

RST compact distribution unit

Dimensions (W x L x H) 104 x 162 x 57.2 mm
 Number of poles 5-pole

routing 3 outputs 230/400V, 20A
 Pre-wired with
 Mounting option

RST 20i5 coding Color black
 2.5 mm²
 Yes



Circuit diagram



Color	Input	Outputs	Part No.
gray	1	3	upon request
black	1	3	96.050.0153.1

RST compact distribution unit

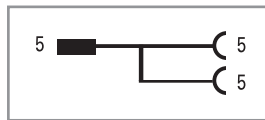
Dimensions (W x L x H) 104 x 162 x 57.2 mm
 Number of poles 5-pole

routing 2 outputs 230/400V, 20A
 Pre-wired with
 Mounting option

RST 20i5 Coding Color black
 2.5 mm²
 Yes



Circuit diagram



Color	Input	Outputs	Part No.
gray	1	2	upon request
black	1	2	96.050.1153.1

RST compact distribution unit

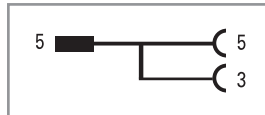
Dimensions (W x L x H) 104 x 162 x 57.2 mm
 Number of poles 5-/3-pole

routing 1 output 230/400V, 20A
 1 output 230V, 20A
 Pre-wired with
 Mounting option

RST 20i5 coding Color black
 RST 20i3 coding Color black
 2.5 mm²
 Yes



Circuit diagram



Color	Pole marking	Input	Outputs	Part No.
gray		1	2	upon request
black	L	1	2	96.050.3153.1
black	L	1	2	96.050.4153.1
black	L	1	2	96.050.5153.1

RST compact distribution unit

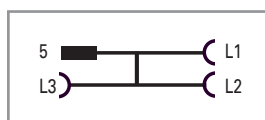
Dimensions (W x L x H) 104 x 162 x 57.2 mm
 Number of poles 5-/3-pole

1 input 230/400V, 20A
 3 outputs 230V, 20A
 Pre-wired with
 Mounting option

RST 20i5 coding Color black
 RST 20i3 coding Color black
 2.5 mm²
 Yes



Circuit diagram



Color	Pole marking	Input	Outputs	Part No.
gray		1	3	Upon request
black	L1, L2, L3	1	3	96.050.6153.1

AS-i distribution unit

Distribution box AS-i / 24V

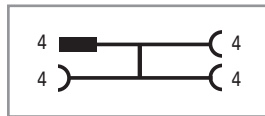
Dimensions (W x L x H) 104 x 162 x 57.2 mm
 Number of poles 4-pole

3 outputs 230/400V, 20A
 Pre-wired with
 Mounting option

RST 20i4 coding Color brown
 2.5 mm²
 Yes



Circuit diagram

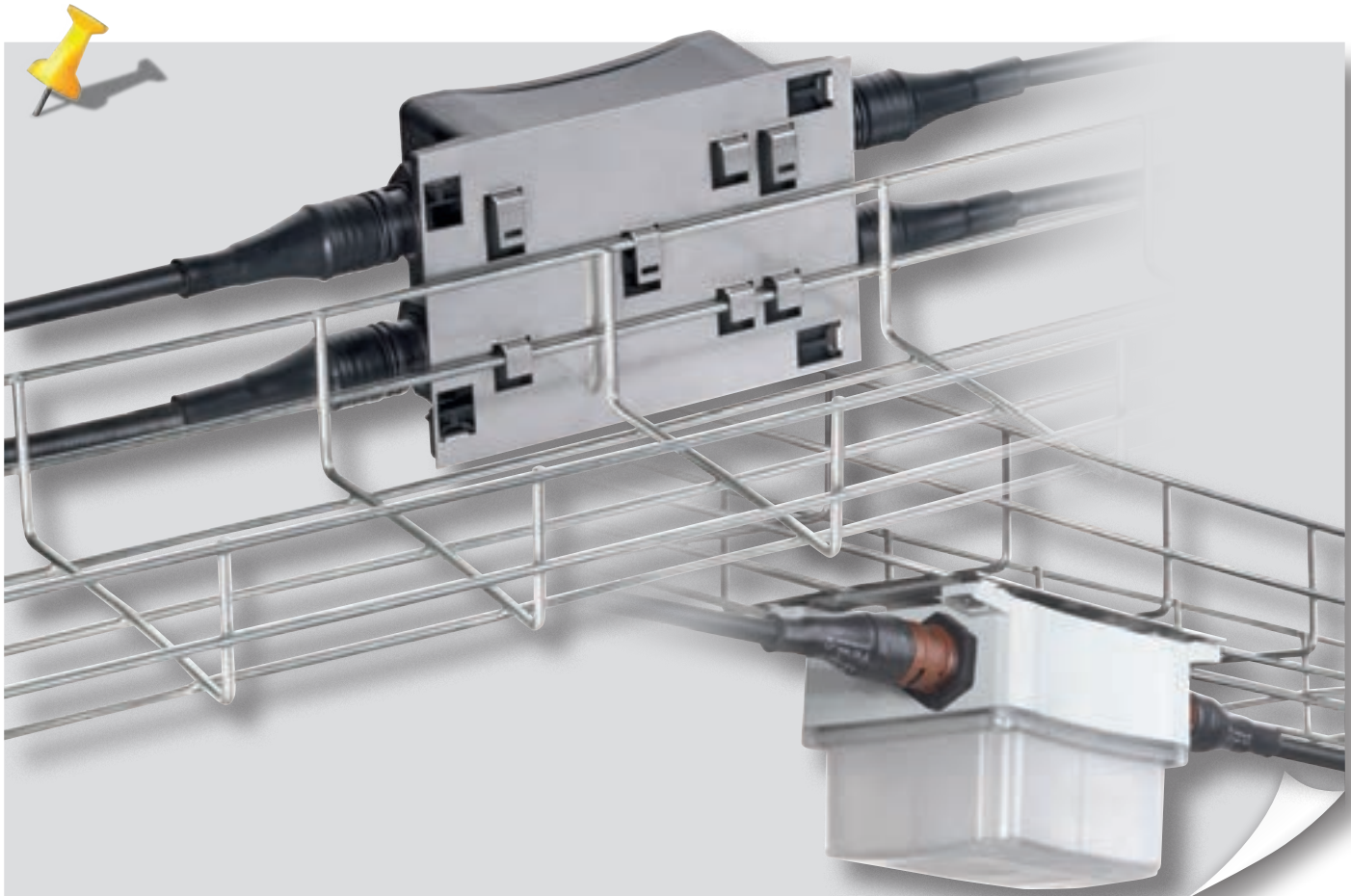


Color	Input	Outputs	Part No.
■ gray	1	3	upon request
■ black	1	3	96.040.0151.4

Mounting plate for example to fit on the mesh cable tray (see illustration below)

Dimensions (W x L x H) 105 x 154 x 4.5 mm
 Mounting option Yes

Part No.
 G0.500.2041.5



Compact/multi-distribution units

Multi-distribution units with max. 8 slots

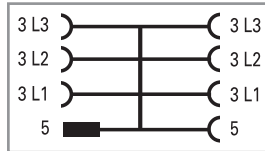
Multi-distribution unit 5-/3-pole, 1I/7O, 2x L1, L2, L3

Dimensions (W x L x H)
routing outputs 230/400V, 20A
outputs 230V, 20A

104 x 162 x 96 mm
1, RST 20i5 coding black
6, RST 20i3 coding black



Circuit diagram



Color	Input	Outputs	Part No.
■ gray	1	7	upon request
■ black	1	7	96.050.7153.1

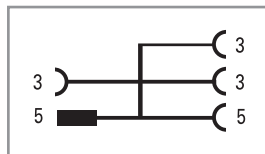
Multi-distribution unit 5-/3-pole, 1I/3O, L1, L2, L3

Dimensions (W x L x H)
routing outputs 230/400V, 20A
outputs 230V, 20A

104 x 162 x 96 mm
1, RST 20i5 coding black
3, RST 20i3 coding black



Circuit diagram



Color	Input	Outputs	Part No.
■ gray	1	4	upon request
■ black	1	4	99.902.0000.7

Multi-distribution unit 5-/3-pole, 1I/3O, L1, L2, L3

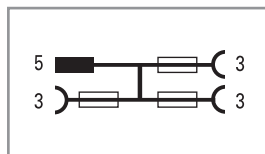
Dimensions (W x L x H) 104 x 162 x 96 mm
Protection type IP 65, 66, 67

input 230/400V, 20A
outputs 230 V, with 3 integrated microfuse holders up to 10 A
including microfuse

1, RST 20i5 coding black
3, RST 20i3 coding black
10A, 5 x 20 mm



Circuit diagram



Color	Input	Outputs	Part No.
■ gray	1	3	upon request
■ black	1	3	99.901.0000.7

Distribution box Power and AS-i / 24 V

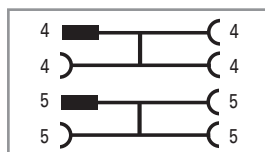
Dimensions (W x L x H) 104 x 162 x 96 mm

Input power 230/400V, 20A
Outputs power 230/400V, 20A
input AS-i/24V, 20A
outputs AS-i/24V, 20A

1
3, RST 20i5 coding black
1
3, RST 20i4 coding brown



Circuit diagram



Color	Input	Outputs	Part No.
■ black	1	3	99.903.0000.7

Multi-distribution units, radio, halogen technology, LED technology

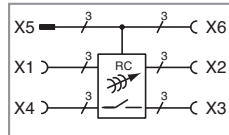
Switching output unit EnOcean 4-fold

Power In-/Output 230V AC / 20A connectors RST 20i3 coding black
 Outputs 4
 Connection type connector RST20i3, coding black

Rated voltage 230 V AC
 Switching capacity 6A (max. two of the LED/LV halogen modules given below)
 Protection type IP 65, 66, 67, 68 (3m; 2h)
 Dimensions (length/width/height) 104/162/96 mm
 Mounting option 4 elongated holes



Circuit diagram



Type	Name	Part No.
gesis RC RST-0/4	4 relay outputs, 1 feed-through wiring	83.020.0505.0

The EnOcean 4-fold switching output unit in IP68 surface housing for outdoor use features four 230V relays. They can be programmed for 30 push button pairs. All electrical connections are pluggable.

Switching output unit EnOcean 1-fold

Power In-/Output 230V AC / 20A connector RST 20i3 coding black
 Outputs 1
 Connection type connector RST 20i3, coding black

Rated voltage 230 V AC
 Switching capacity 5A total ohmic load
 Protection type IP 65, 66, 67, 68 (3m; 2h), 69K
 Dimensions (length/width/height) 104/162/57 mm
 Mounting option 4 elongated holes



Type	Name	Part No.
gesis RC RST-0/1	1 relay output, 1 feed-through wiring	83.020.0504.0
gesis RC RST-0/1x2	2 relay outputs connected in parallel	83.020.0504.1

The EnOcean 1-fold switching output unit in IP68 surface housing for outdoor use features one 230V relay. They can be programmed for 30 push button pairs. All electrical connections are pluggable.

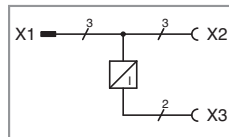
Constant power supply unit, 350 mA DC

Power input (male connector) 230V AC/20A RST 20i3 coding black
 Power output (female connector) 230V AC/20A RST 20i3 coding black
 Output LED (female connector) 350mA DC/max. 12W RST 20i2 coding brown

Protection type IP 65, 66, 67, 68 (3m; 2h), 69K
 Ambient temperature -25 °C up to +55 °C
 Dimensions (length/width/height) 104/162/96 mm
 Mounting option 4 elongated holes
 Electrical connections pluggable with RST 20i2...20i3



Circuit diagram



Type	Part No.
gesis RST PSI 350/12 LED	83.020.0902.0

Constant power supply unit 350 mA for connecting LEDs. Connections not used have to be closed.

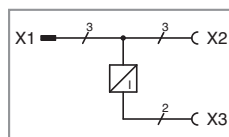
Constant power supply unit, 700 mA DC

Power input (male connector) 230V AC/20A, RST 20i3 coding black
 Power output (female connector) 230V AC/20A RST 20i3, coding black
 Output LED (female connector) 700mA DC/max. 12W, RST 20i2 coding brown

Protection type IP 65, 66, 67, 68 (3m; 2h), 69K
 Ambient temperature -25 °C up to +55 °C
 Dimensions (length/width/height) 104/162/96 mm
 Mounting option 4 elongated holes
 Electrical connections pluggable with RST 20i2...20i3



Circuit diagram



Type	Part No.
gesis RST PSI 700/12 LED	83.020.0903.0

Constant power supply unit 700 mA for connecting LEDs. Connections not used have to be closed.

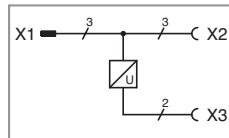
Constant power supply unit, 12 V DC

Power input (male connector)	230V AC/20A RST 20i3, coding black
Power output (female connector)	230V AC/20A RST 20i3, coding black
Output LED (female connector)	12V DC/max. 12W RST 20i2 coding pebble gray

Protection type	IP 65, 66, 67, 68 (3m; 2h), 69K
Ambient temperature	-25 °C up to +55 °C
Dimensions (length/width/height)	104/162/96 mm
Mounting option	4 elongated holes
Electrical connections	pluggable with RST 20i2...20i3



Circuit diagram



gesis RST PSU 12/12 LED

83.020.0900.0

Constant voltage supply unit 12 V for connecting LEDs.
Connections not used have to be closed.

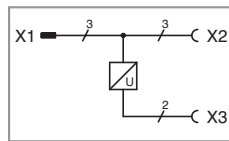
Constant power supply unit, 24 V DC

power input (male connector)	230V AC/20A RST 20i3, coding black
power output (female connector)	230V AC/20A RST 20i3, coding black
output LED (female connector)	24V DC/max. 12W RST20i2, coding pebble gray

Protection type	IP 65, 66, 67, 68 (3m; 2h), 69K
Ambient temperature	-25 °C up to +55 °C
Dimensions (length/width/height)	104/162/96 mm
Mounting option	4 elongated holes
Electrical connections	pluggable with RST 20i2...20i3



Circuit diagram



gesis RST PSU 24/12 LED

83.020.0901.0

Constant voltage supply unit 24 V for connecting LEDs.
Connections not used have to be closed.

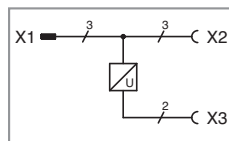
Transformer for low voltage halogen luminaires, 12 V AC

Power input (male connector)	230V AC/20A RST 20i3, coding black
Power output (female connector)	230V AC/20A RST 20i3, coding black
Output LV halogen (female connector)	12V AC/20 – 70W RST 20i2, coding signal brown

Output LV halogen	max. 2 m cable length
Protection type	IP 65, 66, 67, 68 (3m; 2h), 69K
Ambient temperature	0 °C up to +45 °C (derating from 35 °C)
Dimensions (length/width/height)	104/162/96 mm
Mounting option	4 elongated holes
Electrical connections	pluggable with RST 20i2...20i3



Circuit diagram



Type gesis RST PSU 12/70 LVH

Part No.
83.020.0904.0

Power supply unit 12 V for connecting halogen luminaires.
Connections not used have to be closed.

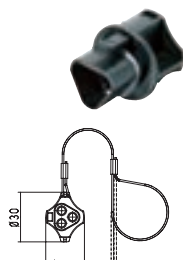
Accessories Covers

Suitable for all RST 20i2 and RST 20i3 codings

The covers have to be used to close all unused inputs and outputs. Without these covers, only IP20 is achieved!

for male

for female



Type	Part No.
Cover for male connector, captive against loss	99.416.6205.2
Cover for male connector, not captive against loss	05.564.4453.1
Cover for female connector, captive against loss	99.414.6205.2
Cover for female connector, not captive against loss	Z5.564.4553.1

Radio switch / hand-held radio transmitter

Radio switch, 2/4 channels glossy with suitable frame

- glossy surface
- batteryless and maintenance free
- for installation on flat surfaces with screws or adhesive pads (included in delivery)
- the combination frames have to be ordered separately



This push button series features a glossy, smooth surface. The radio switches with 2 or 4 channels do not require batteries or maintenance. The rockers are in neutral central position and without marking with 1/0 or up/down symbols. The matching frames for these push buttons can be found below.



Frame for installation of the 2/4 channel glossy radio switches. Suitable for vertical and horizontal mounting.

Type	Color	Marking	Part No.
Radio switch, 2 channels	pure white	1 / 0	F0.000.0025.0
	pure white	(△▼)	F0.000.0025.2
	pure white		F0.000.0025.4
	piano black	1 / 0	F0.000.0025.9
	piano black	(△▼)	F0.000.0026.1
	piano black		F0.000.0026.3
	aluminum	1 / 0	F0.000.0026.8
	aluminum	(△▼)	F0.000.0027.0
aluminum		F0.000.0027.2	
Radio switch, 4 channels	pure white	1 / 0	F0.000.0025.1
	pure white	(△▼)	F0.000.0025.3
	pure white		F0.000.0025.5
	Piano black	1 / 0	F0.000.0026.0
	Piano black	(△▼)	F0.000.0026.2
	Piano black		F0.000.0026.4
	aluminum	1 / 0	F0.000.0026.9
	aluminum	(△▼)	F0.000.0027.1
aluminum		F0.000.0027.3	

* 2 channels represent a rocker in neutral center position. This function is defined in the receiver.

* 4 channels represent two rockers in neutral center position. This function is defined in the receiver.

Type	Color	Marking	Part No.
Combination frame 1-fold	pure white		F0.000.0025.6
Combination frame 2-fold	pure white		F0.000.0025.7
Combination frame 3-fold	pure white		F0.000.0025.8
Combination frame 1-fold	piano black		F0.000.0026.5
Combination frame 2-fold	piano black		F0.000.0026.6
Combination frame 3-fold	piano black		F0.000.0026.7
Combination frame 1-fold	aluminum		F0.000.0027.4
Combination frame 2-fold	aluminum		F0.000.0027.5
Combination frame 3-fold	aluminum		F0.000.0027.6

Handheld radio transmitter, 4 channels

- Batteryless and maintenance-free
- For stick-on surface mounting or as a handheld remote control.



Type	Color	Marking	Part No.
Handheld radio transmitter	pure white RAL 9010		F0.000.0009.1
Handheld radio transmitter	black RAL 9005		F0.000.0009.2
Handheld radio transmitter	silber lackiert		F0.000.0009.3

Batteryless and maintenance-free 4-channel handheld transmitter for direct control of the actuators.

Radio switch / hand-held transmitter

Convenient hand-held transmitter

Radio channels	512
Configurable levels	32

Displays	Time, date, temperature
Texts and symbols	pre-defined or configurable
Lock	with pin code
Timers	32
Speed dial keys	8
Dimensions (length/width/height)	165/55/21 mm

Type	Part No.
Convenient hand-held transmitter	F0.000.0024.4



Included in delivery

Special EnOcean function: EnOcean service function, e.g. ID display, quality of radio signals, and a radio link test (enables range test between two hand-held terminals)

Power supply: Supply with batteries 3 AAA-NiMH power packs (included in delivery)
Charging device: USB charging device and separate USB cable (included in delivery)

The convenient hand-held transmitter allows for control of the complete building. Whether complex lighting concepts or comprehensive actions following a detailed schedule: This hand-held terminal lets you program building functions in the twinkling of an eye. Menu navigation is intuitive and is supported by easily understandable symbols. Additionally, the device offers service functions for the installer regarding range planning and serves for function testing during commissioning.

Multivendor radio switch, 2/4 channels

- Batteryless and maintenance-free
- for mounting on flat surfaces with screws or adhesive pads (included in delivery)

- The radio switches fit the frames with 55mm installation size of the vendors and their designs listed:
 - Berker: S1, B1, B3, B7 Glas
 - Gira: Standard 55, E2, Event, Esprit
 - Jung: A500, A plus
 - Merten: M-Smart, M-Arc, M-Plan



Type	Color	Marking	Part No.
Radio switch, 2 channels	white	I / O	F0.000.0005.6
	anthracite	I / O	F0.000.0007.5
	aluminum finish	I / O	F0.000.0007.6
Radio switch, 2 channels	white	(△▼)	F0.000.0005.8
	anthracite	(△▼)	F0.000.0007.7
	aluminum finish	(△▼)	F0.000.0007.8
Radio switch, 4 channels	white	I / O	F0.000.0005.7
	anthracite	I / O	F0.000.0007.9
	aluminum finish	I / O	F0.000.0008.0
Radio switch, 4 channels	white	(△▼)	F0.000.0005.9
	anthracite	(△▼)	F0.000.0008.1
	aluminum finish	(△▼)	F0.000.0008.2

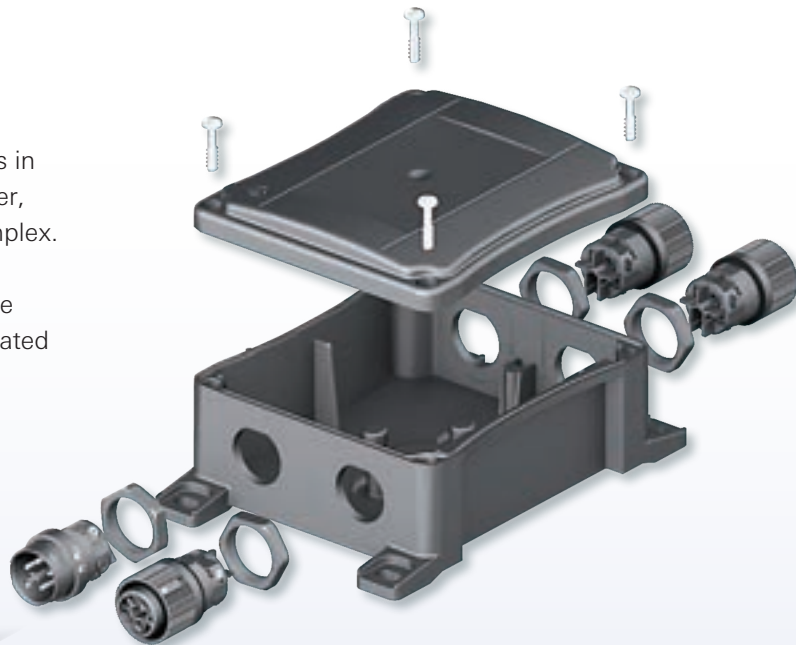
Batteryless and maintenance-free radio switches with 2/4 channels for direct control of the actuators. The rockers in neutral center position are marked with I/O or Up/Down (△▼) symbols. These 55x55 mm switches enable installation in various designs of various manufacturer

- Multivendor radio switches with 2/4 channels (light) (I / O)
- the rockers are printed with I/O symbols
- Multivendor radio switches with 2/4 channels (sunblind) (Up / Down) (△▼)
- the rockers are printed with Up/Down (△▼) symbols

Compact and multiple distribution units

Flexibility according to RST® modularity

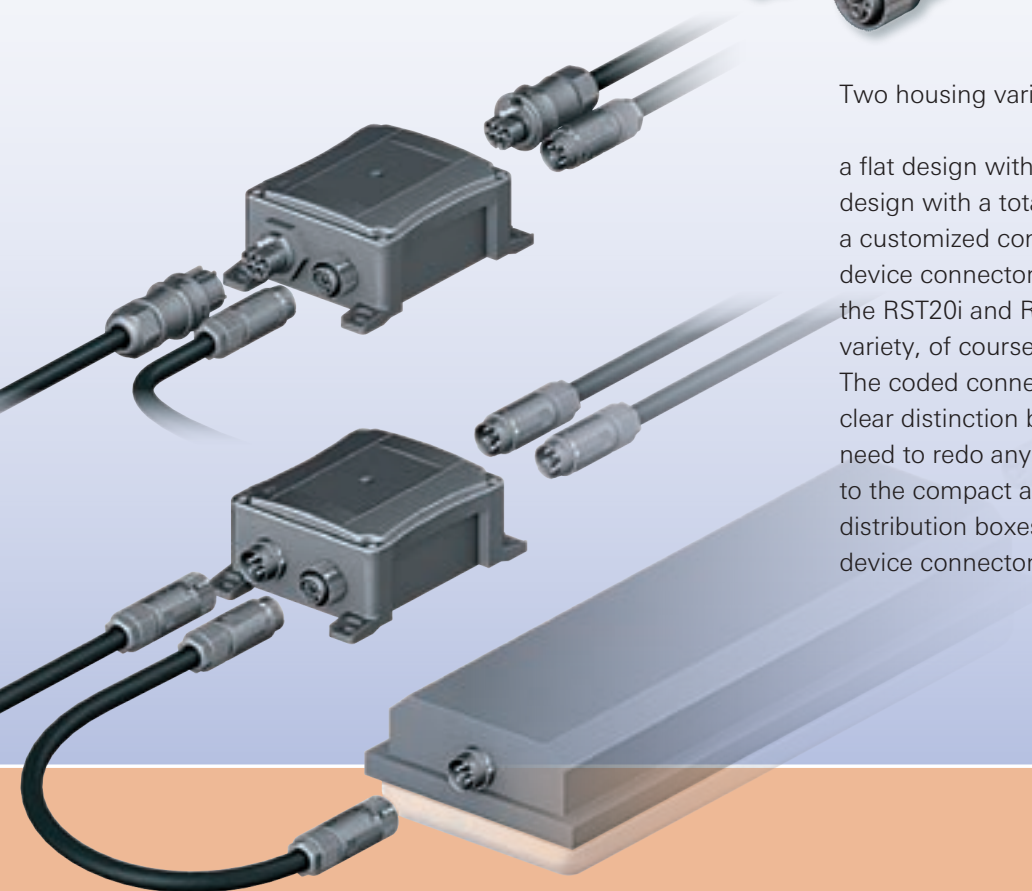
The pluggable distributors play a major role in power or signal distribution. In their simplest function, they merely have to provide branches in the required locations. Practice shows, however, that the requirements may be much more complex. Examples can be found in rotary A/C current distributors and distributors with integrated fine fuses, all the way through to boxes with integrated electronics, such as constant current sources, voltage sources, or radio actuators.



Two housing variations are the basis:

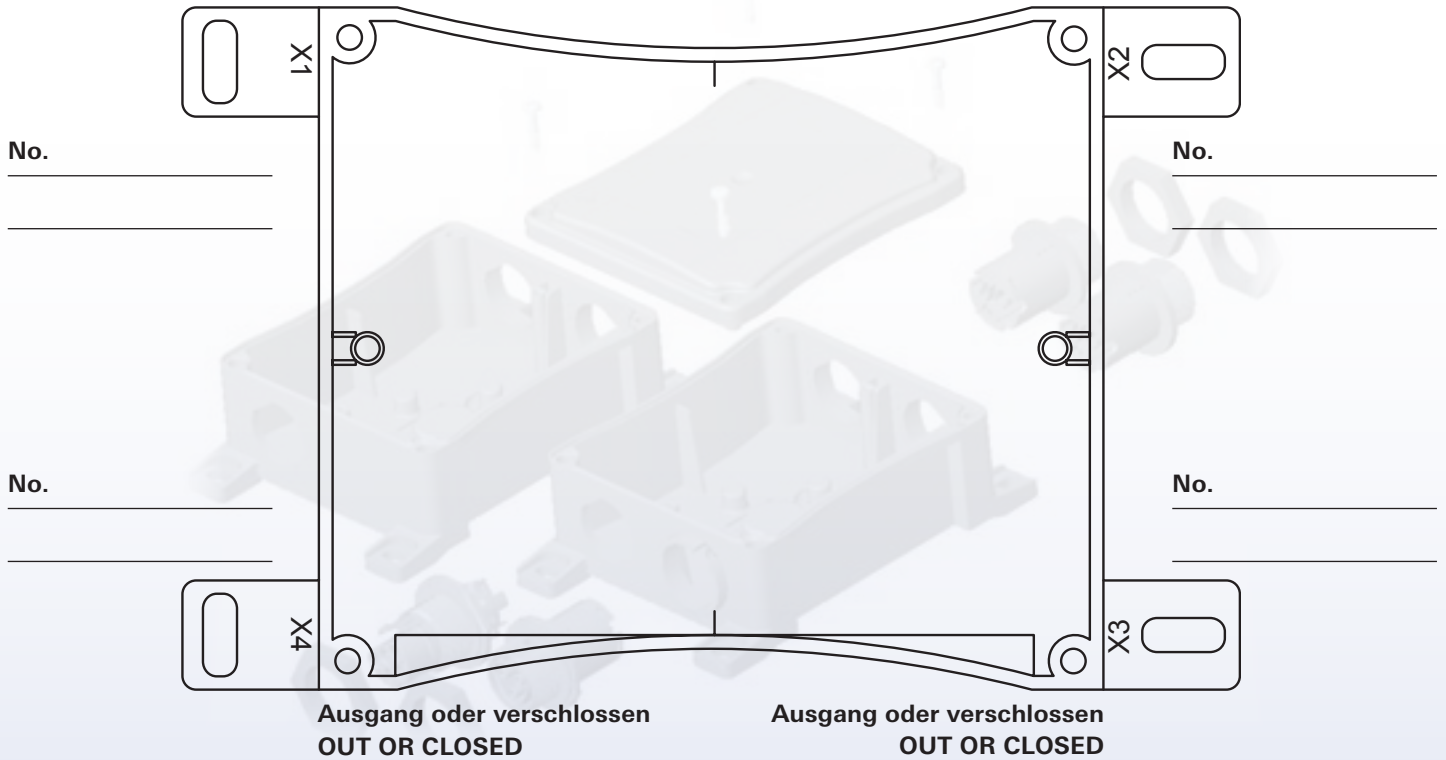
a flat design with up to four slots, and a high design with a total of up to eight slots. Alongside a customized configuration with the new RST16i device connectors, the existing components of the RST20i and RST25i lines can also be used for variety, of course.

The coded connectors give you the security of a clear distinction between different circuits – no need to redo any incorrect connections. In addition to the compact and multiple distributors, standard distribution boxes can also be customequipped with device connectors.



Example

Special variant request – please complete and fax: +49-951-9326-996

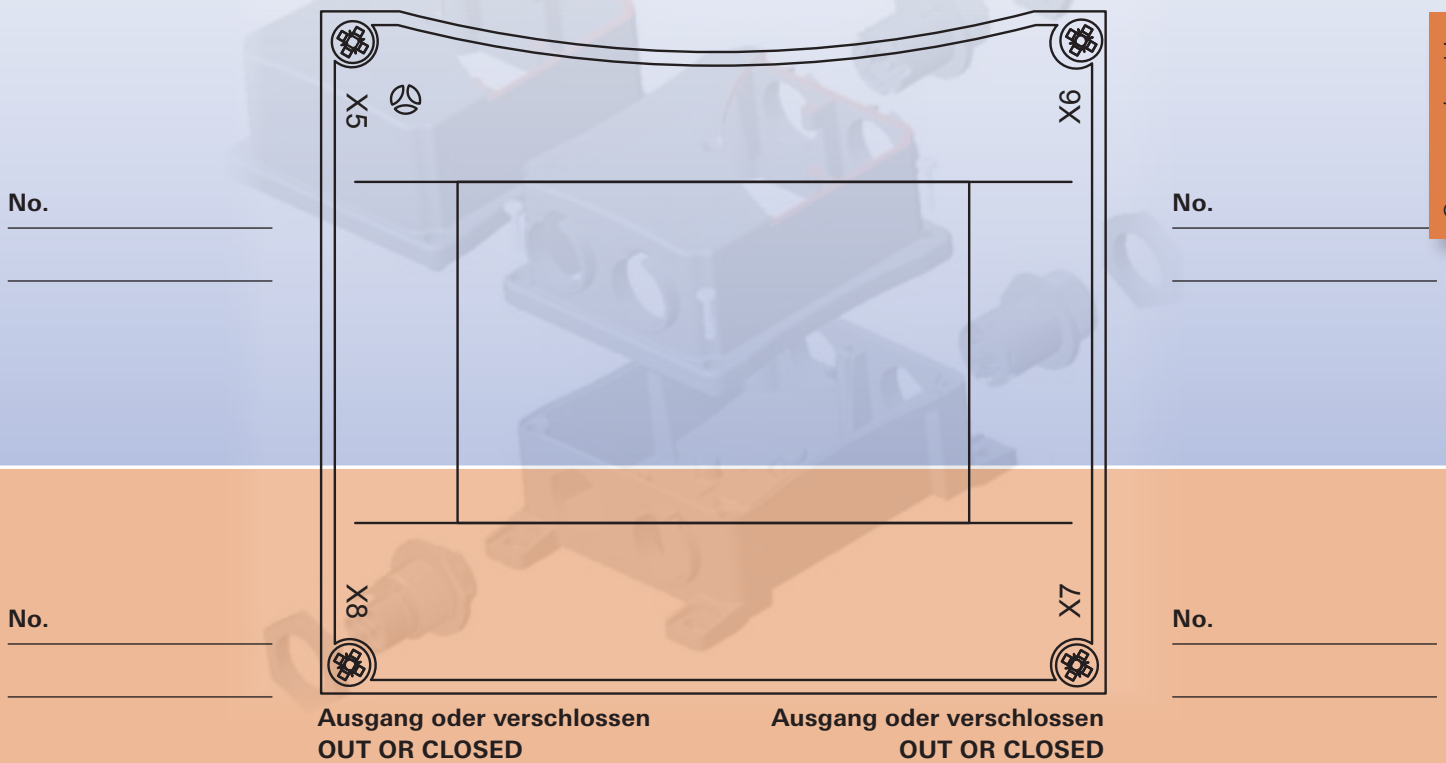


Ausgang oder verschlossen
OUT OR CLOSED

Ausgang oder verschlossen
OUT OR CLOSED

Input, Ausgang
oder verschlossen
IN, OUT OR CLOSED

Ausgang oder verschlossen
OUT OR CLOSED



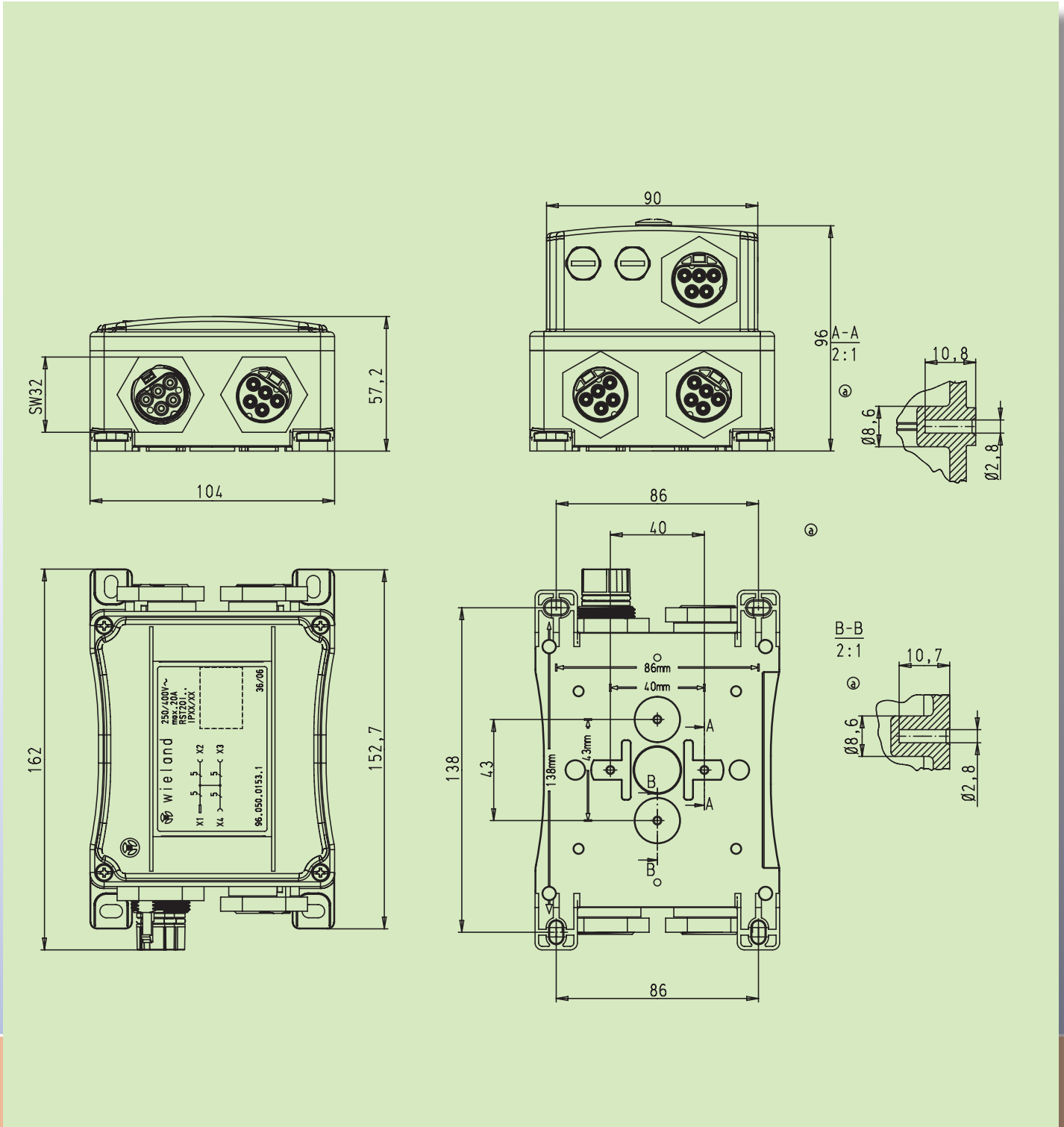
Ausgang oder verschlossen
OUT OR CLOSED

Ausgang oder verschlossen
OUT OR CLOSED

Compact/multi-
distribution units

Bitte die benötigten Komponenten (Artikelnummer oder Polzahl und Farbe) ergänzen und Verdrahtung einzeichnen.
Please add required components (either article code or number of poles and color) and the wiring scheme.

RST[®] compact and multi-distribution units

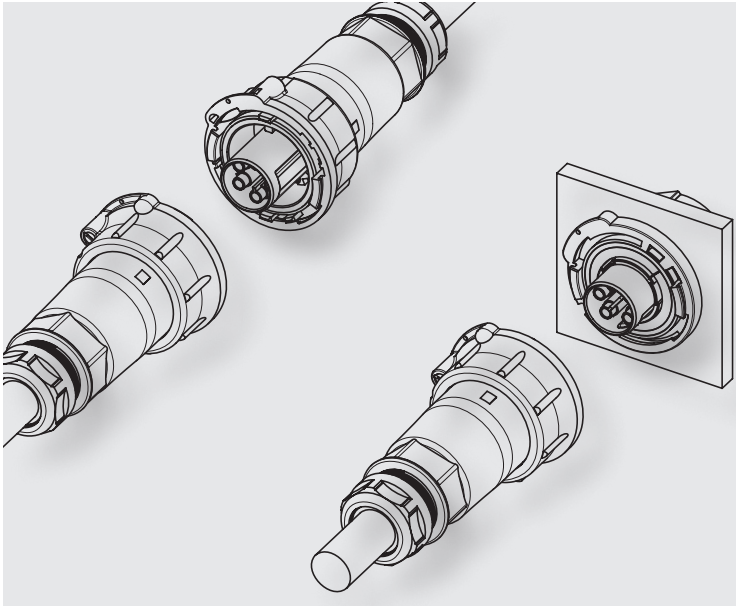


Temperature range:	-40° C up to +100° C
Operating ambient temperature:	under full load (20 A) 55° C
Material:	Contact parts: brass, silver-plated Housing parts: thermoplastic material PA 66, halogen-free, V2 Sealing material: NBR
Wiring:	Individual wires 2.5 mm ² , halogen-free (other cross-sections on request)
Regulations:	DIN VDE 0606 T200; DIN EN 61984 (VDE 0627); VDE 0110 IEC 60999
Approvals:	VDE You can find the direct assignment of approvals and part numbers in the internet in the eShop under http://eshop.wieland-electric.com , or consult us.
Degree of protection:	IP65, IP66, IP67 und IP68 (3m; 2 Stunden) $\hat{=}$ 0.3 bar, IP69 K Special variants may occur different degrees of protection.
IK code:	IK 07 (2 Joule) according to DIN EN 62262
Rated voltage:	250 V / 400 V
Rated current:	20 A (25 A)
Coding:	Mechanical coding symbolized by color code. Gray and black with the same mechanical coding. Other codings are optional.
Note:	Protection against shock generally guaranteed even when disconnected. Ground conductor leading. Connection to the live cable must be with a female connector according to the regulations. It is therefore not possible to have a ring circuit arrangement! Only pluggable in the correct pole configuration; 1-pole cannot be connected. Contacts protected against strain on the cable. All components can be interlocked. A locking device is required for DIN EN 61535 approval. DIN VDE 0606 T200 conformity does not automatically exclude the danger of confusion with third-party installation plug connector systems! Installation plug connector systems are no substitute for national plug/outlet systems for domestic use.



The new **RST**[®] POWER series up to 50 A

Application example




General

The new **RST**[®] POWER series is particularly designed for device engineering. With a current-carrying capability of 50 A combined with an extremely compact design, the connector fits almost everywhere.

The 4-pole connector is based on the 5-pole variation, with one pole left empty.

Coding

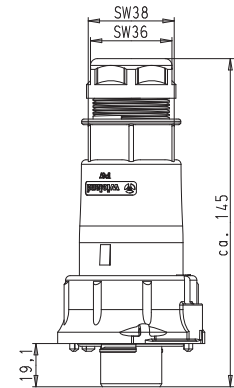
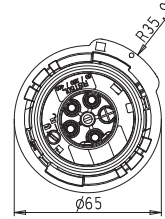
For daily updates visit the website at http://eshop.wieland-electric.com . Assembly instructions and other technical information can be found in the Technical Data or in eShop.				Application	Power max. 50 A
				Mechanical coding	250/400 V 1, 2, 3 ⊕ 
Name	Description	Connection style	Strain relief housing	Connection points per pole	black
Connectors	1 x wire entry	Screw Crimp	yes	1	✓
Device connectors	M32 connector, standard	Screw Crimp	yes	1	✓

Connectors, straight for cables Ø 4 – 6 mm and 4 – 10 mm

Female connector



Illustration
M 32 cable gland



with screw connection

Wire	mm ²
solid	from 4.0 to 6.0*
stranded	
flexible wires	from 4.0 to 16.0
Approvals	VDE, c CSA us

with crimp connection

Wire	mm ²
flexible wires	from 4.0 to 10.0
Approvals	VDE, c CSA us

Application	Coding	Cable gland	Cable Ø in mm	Color
Power max. 50A		M32	15 – 25	black
		M40	20 – 32	black

Part No.
97.041.4053.1
97.041.4253.1

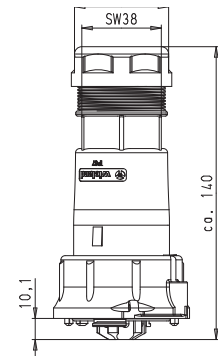
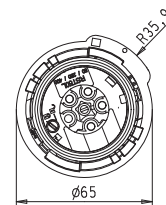
Part No.
97.141.0053.1
97.141.0253.1

Contacts separately under Accessories, see following pages.

Male connector



Illustration
M 40 cable gland



with screw connection

Wire	mm ²
solid	from 4.0 to 6.0*
stranded	
flexible wires	from 4.0 to 16.0
Approvals	VDE, c CSA us

with crimp connection

Wire	mm ²
flexible wires	from 4.0 to 10.0
Approvals	VDE, c CSA us

Application	Coding	Cable gland	Cable Ø in mm	Color
Power max. 50A		M32	15 – 25	black
		M40	20 – 32	black

Part No.
97.042.4053.1
97.042.4253.1

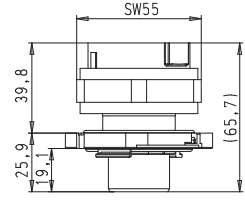
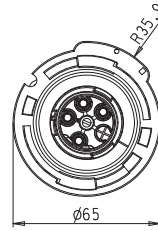
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97.142.0253.1

Contacts separately under Accessories, see following pages.

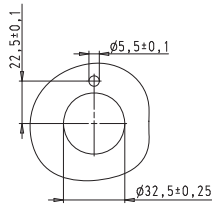
* Solid and stranded wires > 6.0 mm² cannot be connected in the available space due to their rigidity.

M32 device connector straight, standard

Female connector



Drilling template for device connectors fixed in position



with screw connection

Wire	mm ²
solid	from 4.0 to 16.0
stranded	
flexible wires	from 4.0 to 16.0
Approvals	VDE, c CSA us

with crimp connection

Wire	mm ²
flexible wires	from 4.0 to 10.0
Approvals	VDE, c CSA us

Application Coding Fixation with bolts Color

Power max. 50A		fixed in position	black
		not fixed in position	black

Part No.

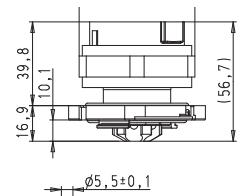
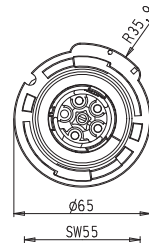
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97.041.5053.1

Part No.

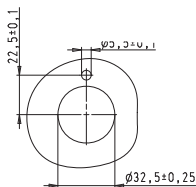
97.141.1553.1
97.141.1053.1

Contacts separately under Accessories, see following pages.

Male connector



Drilling template for device connectors fixed in position



with screw connection

Wire	mm ²
solid	from 4.0 to 16.0
stranded	
flexible wires	from 4.0 to 16.0
Approvals	VDE, c CSA us

with crimp connection

Wire	mm ²
flexible wires	from 4.0 to 10.0
Approvals	VDE, c CSA us

Application Coding Fixation with bolts Color

Power max. 50A		fixed in position	black
		not fixed in position	black

Part No.

97.042.5553.1
97.042.5053.1

Part No.

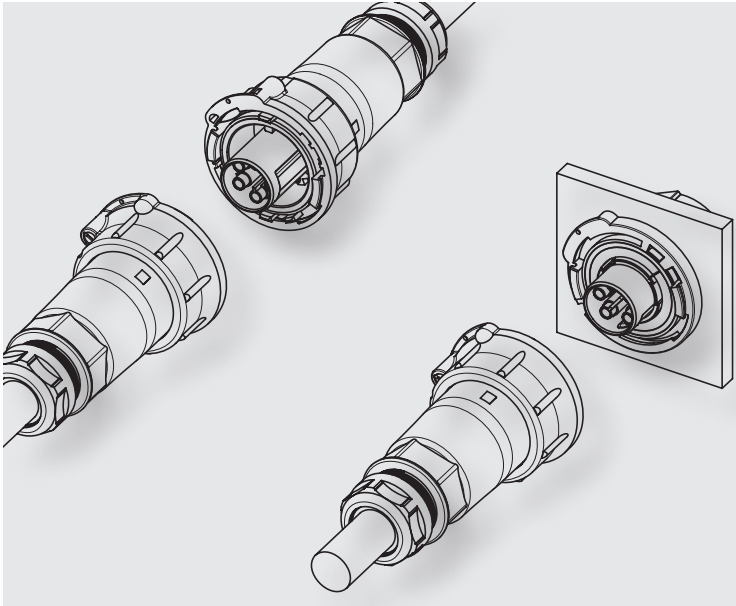
97.142.1553.1
97.142.1053.1

Contacts separately under Accessories, see following pages.



The new **RST**[®] POWER series up to 50 A


Application example



General

The new **RST**[®] POWER series is particularly designed for device engineering. With a current-carrying capability of 50A combined with an extremely compact design, the connector fits almost everywhere.

Coding

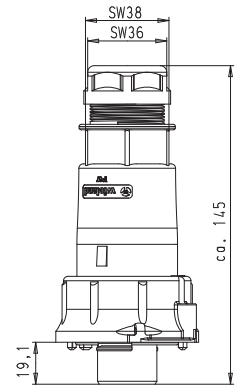
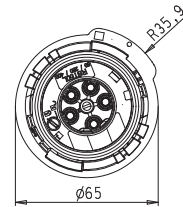
For daily updates visit the website at http://eshop.wieland-electric.com . Assembly instructions and other technical information can be found in the Technical Data or in eShop.				Application	Power max. 50A
				Mechanical coding	250/400V 1, 2, 3, N, ⊕ 
Name	Description	Connection style	Strain relief housing	Connection points per pole	black
Connectors	1 x wire entry	Screw Crimp	yes	1	✓
Device connectors	M32 connector, standard	Screw Crimp	yes	1	✓

Connectors, straight for cables Ø 4 – 6 mm and 4 – 10 mm

Female connector



Illustration
M 32 cable gland



with screw connection

Wire	mm ²
solid	from 4.0 to 6.0*
stranded	
flexible wires	from 4.0 to 16.0
Approvals	VDE, c CSA us

with crimp connection

Wire	mm ²
flexible wires	from 4.0 to 10.0
Approvals	VDE, c CSA us

Application Coding Cable gland Cable Ø in mm Color

Power max. 50A		M32	15 – 25	black
		M40	20 – 32	black

Part No.

97.051.4053.1
97.051.4253.1

Part No.

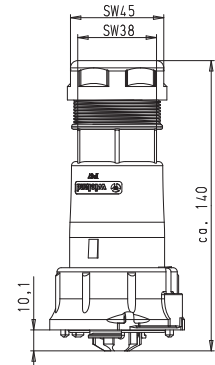
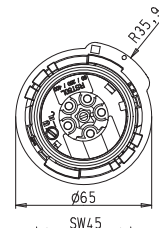
97.151.0053.1
97.151.0253.1

Contacts separately under Accessories, see following pages.

Male connector



Illustration
M 40 cable gland



with screw connection

Wire	mm ²
solid	from 4.0 to 6.0*
stranded	
flexible wires	from 4.0 to 16.0
Approvals	VDE, c CSA us

with crimp connection

Wire	mm ²
flexible wires	from 4.0 to 10.0
Approvals	VDE, c CSA us

Application Coding Cable gland Cable Ø in mm Color

Power max. 50A		M32	15 – 25	black
		M40	20 – 32	black

Part No.

97.052.4053.1
97.052.4253.1

Part No.

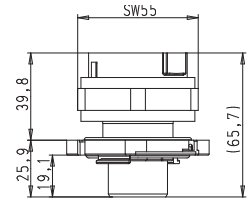
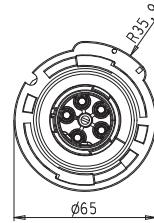
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97.152.0253.1

Contacts separately under Accessories, see following pages.

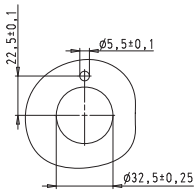
* Solid and stranded wires > 6.0 mm² cannot be connected in the available space due to their rigidity.

M32 device connector straight, standard

Female connector



Drilling template for device connectors fixed in position



with screw connection

Wire	mm ²
solid	from 4.0 to 16.0
stranded	
flexible wires	from 4.0 to 16.0
Approvals	VDE, c CSA us

with crimp connection

Wire	mm ²
flexible wires	from 4.0 to 10.0
Approvals	VDE, c CSA us

Application Coding Fixation with bolts Color

Power max. 50A		fixed in position	black
		not fixed in position	black

Part No.

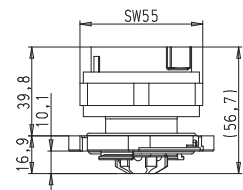
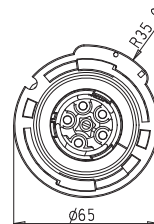
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97.051.5053.1

Part No.

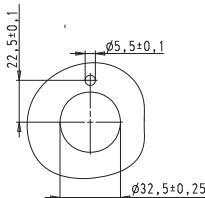
97.151.1553.1
97.151.1053.1

Contacts separately under Accessories, see following pages.

Male connector



Drilling template for device connectors fixed in position



with screw connection

Wire	mm ²
solid	from 4.0 to 16.0
stranded	
flexible wires	from 4.0 to 16.0
Approvals	VDE, c CSA us

with crimp connection

Wire	mm ²
flexible wires	from 4.0 to 10.0
Approvals	VDE, c CSA us

Application Coding Fixation with bolts Color

Power max. 50A		fixed in position	black
		not fixed in position	black

Part No.

97.052.5553.1
97.052.5053.1

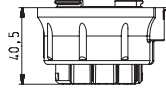
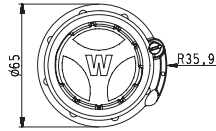
Part No.

97.152.1553.1
97.152.1053.1

Contacts separately under Accessories, see following pages.

Cover

For safe covering of unused male or female components



Name	Color	Part No.
Cover	black	Z5.567.5653.0

Sample kit RST 50i5

Complete kit

Contents:

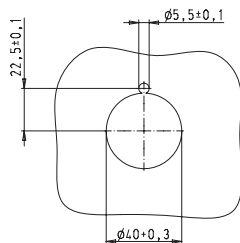
- Connectors
- Device connection
- Cover
- Knock-out (metal sheet)



Name	Color	Part No.
Sample kit RST50i5	black	99.628.0000.0

Adapter ring 40 mm

For fixing the device connector inside 40 mm knock-outs



Name	Color	Part No.
Adapter ring	black	05.568.1853.0

RST® POWER Crimp contacts

Female contact



Male contact



Name	Marking	(groove) mm ²	Part No.
Female contact	None	4.0	02.126.0621.8
Female contact	1	6.0	02.126.0721.8
Female contact	None	10.0	02.126.0821.8
Male contact	None	4.0	05.545.2821.8
Male contact	1	6.0	05.545.2921.8
Male contact	None	10.0	05.545.3021.8

Crimping tool with system kit

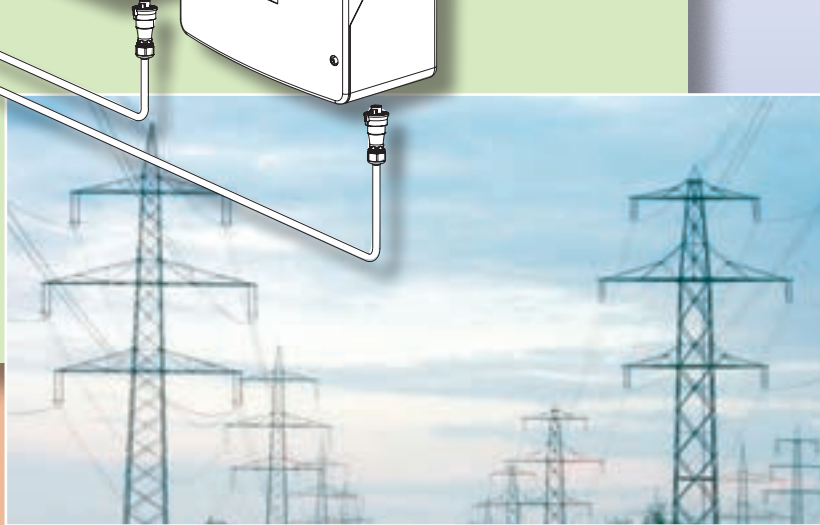
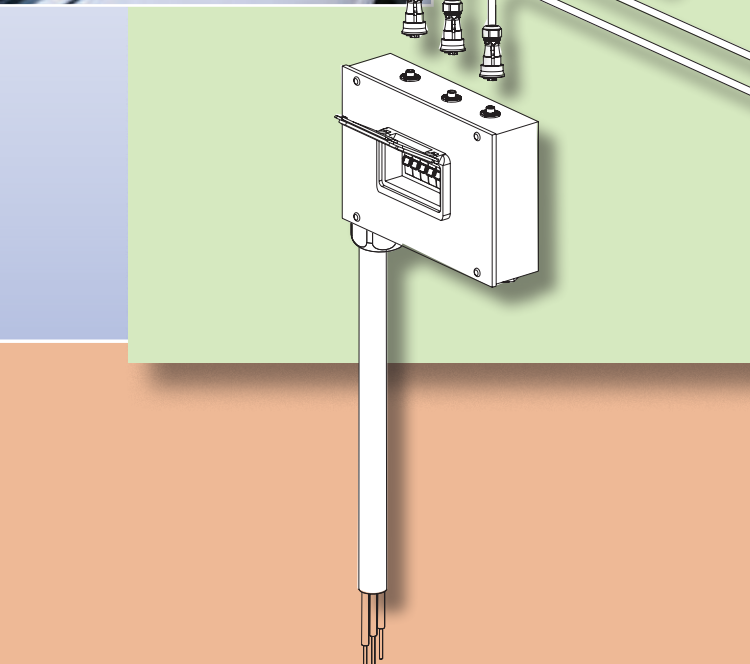


Name	Part No.
Crimping tool (supplied in case)	95.101.0800.0
Crimping die D	05.502.2300.0

Convincing technology

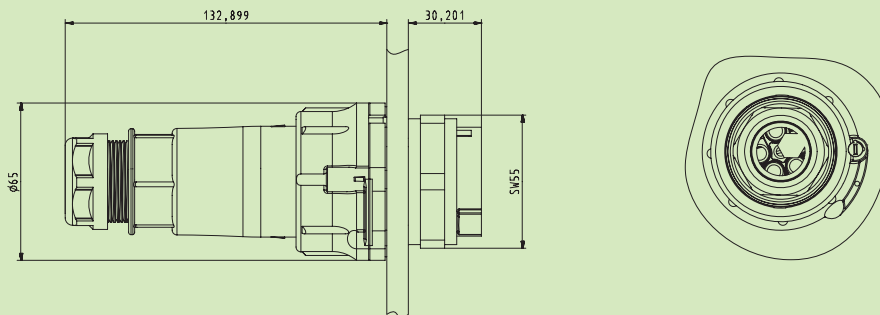


Example:
Solar collective
distribution box

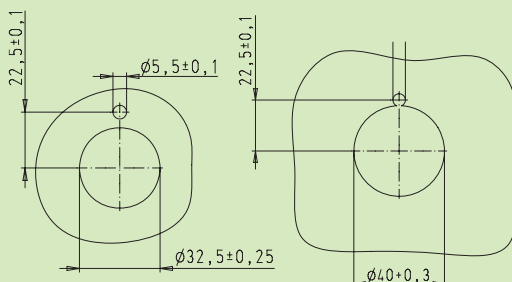


RST® POWER

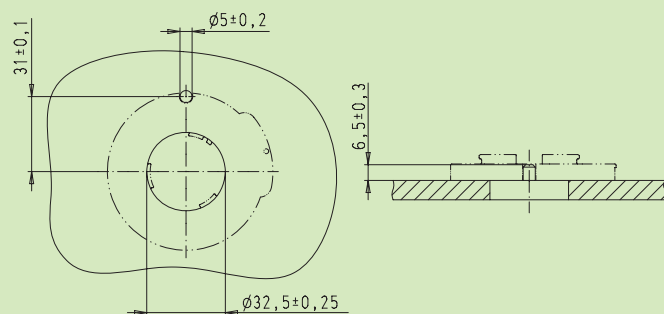
Rated voltage:	250/400V	
Rated current:	50A	
Rated cross-section:	rigid cables with 4.0 mm ² to 6.0 mm ² for plug connectors (up to 16 mm ² with device connectors) fine-stranded cables with 4.0 mm ² to 16.0 mm ²	
Number of poles:	4-pole	5-pole
Pole designation:	1, 2, 3, ⊕	1, 2, 3, N, ⊕
Material:	Contact parts: brass, surface-plated Housing parts: thermoplastic material PA 66, halogen-free, V2 Sealing material NBR, TPE	
Degree of protection:	IP65, IP66, IP67, IP69K	
Approvals:	VDE, cCSA us You can find the direct assignment of approvals and part numbers in the internet in the eShop under http://eshop.wieland-electric.com , or consult us.	
Sheath strip length:	70 mm	
Insulation strip length:	Screw 10 mm (crimp 11 mm)	
Torques:	Cable gland SW 36: 12 Nm; SW 38: 14 Nm	



Hole pattern for M32 device connectors, alternative M40 with adapter ring (fixed in position)

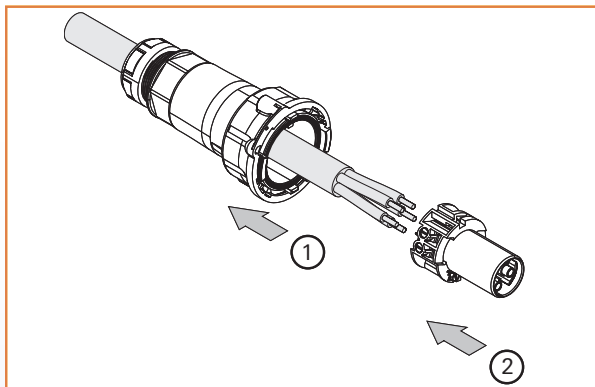


Alternative fixed in position (cams on the housing)

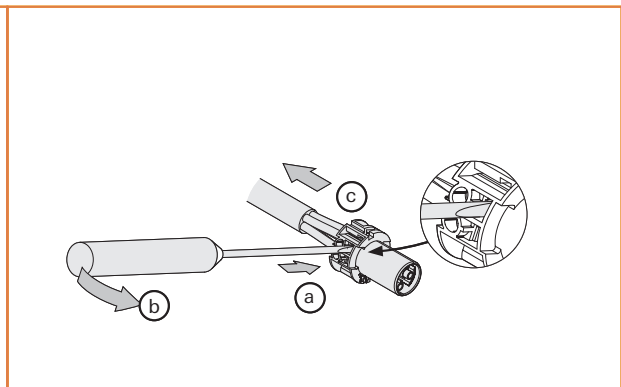


Connectors 4- and 5-pole

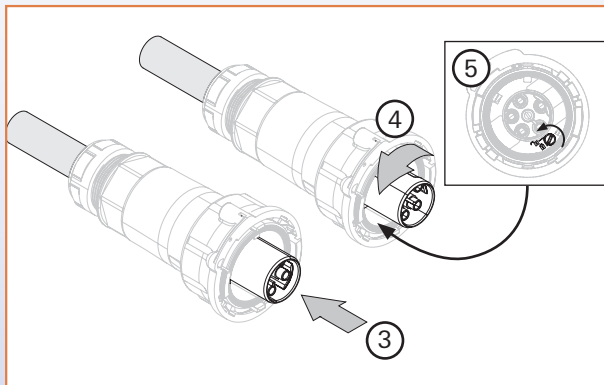
Connect the wires ...



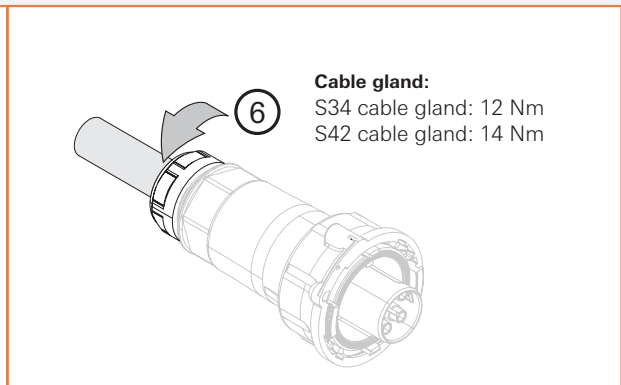
... Disconnect the crimp contacts



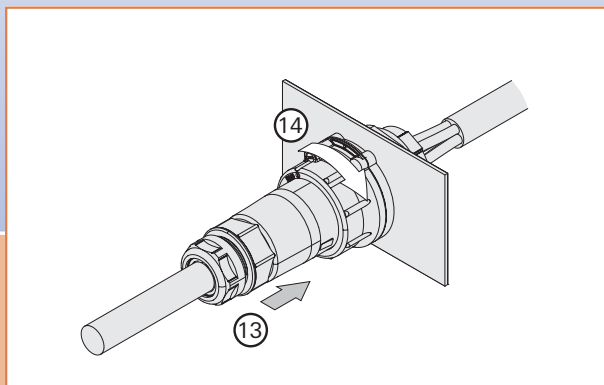
Secure the contact inserts ...



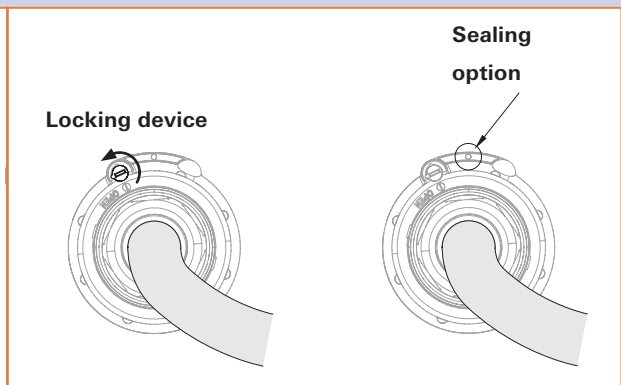
... Tighten the cable gland



Bayonet lock ...

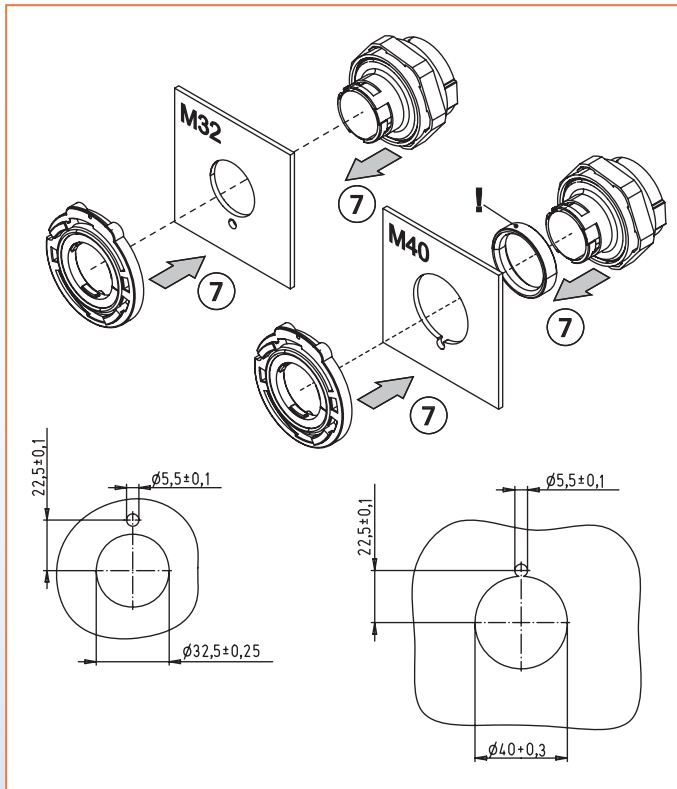


... and protection against unintentional disconnection

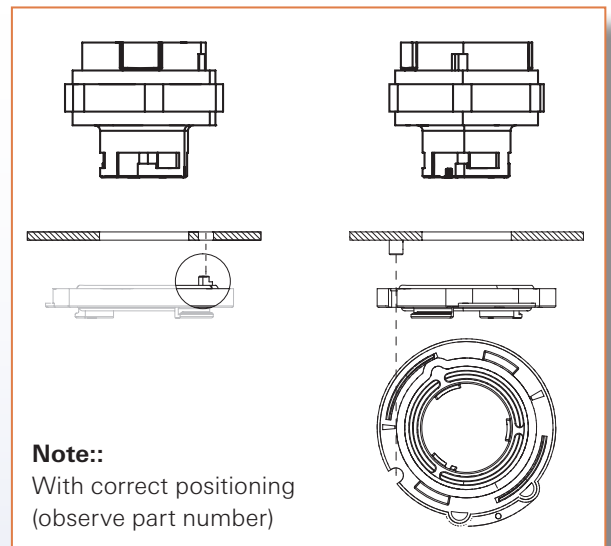


Device connections 4- and 5-pole

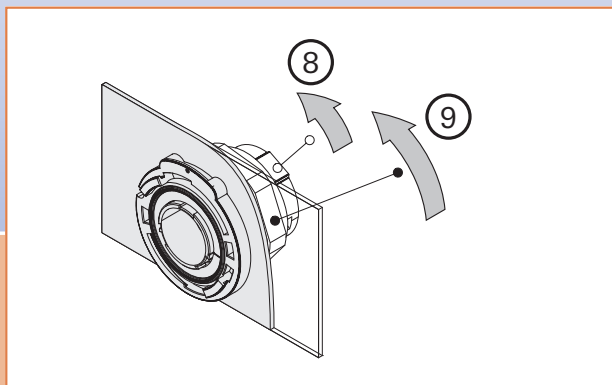
Mounting housing flange, dimensions in mm



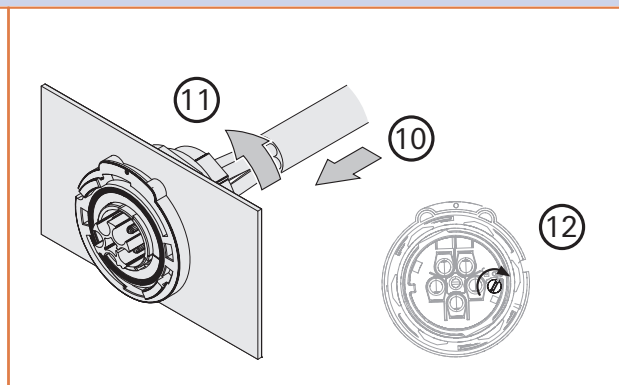
Positioning option



Latching the housing flange ...



... securing the contact insert



Definition of IP protection degrees (DIN EN 60529-1)

Documentation:

Example: IP65



	Protection against contact	Protection against ingress of objects
0	no protection	no protection
1	Any large surface of the body (e.g. back of the hand)	Large foreign objects (> 50 mm in Ø)
2	Finger	Medium-sized foreign objects (> 12 mm in Ø)
3	Tools and wires (> 2.5 mm in Ø)	Small foreign objects (> 2.5 mm in Ø)
4	Tools and wires (> 1.0 mm in Ø)	Grain-shaped foreign objects (> 12 mm in Ø)
5	Complete protection against contact	Dust deposition
6	Complete protection against contact	Dust ingress
7		
8		
9		

0	no protection
1	Protection against vertically falling water
2	Protection from diagonally (up to 15°) falling water drops
3	Protection against spraying water up to 60° to the vertical
4	Protection from splashing water from any direction
5	Protection against water jets
6	Protected against powerful water jets
7	Protection against temporary immersion in water
8	Protection against continuous immersion in water
9K*)	Protection against high pressure, high temperature spray downs

*) according to DIN 400 50

As an innovative installation system, Wieland offers a global concept for efficient outdoor installation and industrial application.

In many applications, electrotechnical devices and systems must reliably work for many years under tough environmental conditions. To ensure a reliable function, it is essential to prevent the penetration of humidity or particles (e.g. dust, oil, soot, etc.) in production plants, garages or in outdoor areas. Even an unplanned immersion is possible with the **RST**® system within the scope of the specified degree of protection.

The system is not designed for permanent operation under water.

It is not possible to lay the components directly in the ground.

According to VDE 0100-520, connectors must be protected using suitable additional facilities and must be accessible for visual inspection, testing, and maintenance.

Refer also to the installation instructions.

Degree of protection achieved:

- IP65** Water jets
- IP66** Powerful water jets
- IP67** Temporary immersion
- IP68** Continuous immersion (for 2 hours at a water depth of 3 m)
- IP69K** High-pressure spray down

Material resistance

Please contact us for applications under different conditions.			
UV light (use black-colored connectors!)	+	Motor oil (SAE 20W/55)	+
Oil and grease resistance	+	Nickel chloride	+
Aliphatic carbon hydride	+	Paraffin and paraffin derivates	+
Aromatic hydrocarbons	+	Phosphoric ester	+
Alcohols	+	Phthalic ester	+
Ammonia, water-free	+	Polyamide resin	+
Ammonium chloride (salmiac)	+	Polyester polyoles	+
Ammonium sulfate	+	Polyether polyoles	+
Barium chloride	+	Polyglycols	+
Beer	+	Polymeric softeners	+
Butter	+	Polyurethane resins	+
Butyl alcohol	+	Mercury	+
Calcium chloride, aqueous solution, 10%	+	Castor oil	+
Citric acid, aqueous solution, 10%	+	Salmiac	+
Ferric sulfide	+	Oxygen, RT	+
Ethyl ether	+	Lubricating oil (O-149), (not bunker oil, oil tankers)	+
Paint, varnish, with low sulphuric acid content	+	Sulfur, wet	+
Fruit juice, fruit acid	+	Sulfuric acid (diluted, RT)	+
Tannic acid	+	Sulfur hexafluoride	+
Glycerin	+	Sweat	+
Glycantine, aqueous solution, 40%	+	Sebacic acid ester	+
Potassium chloride	+	Spirits	+
Caustic potash solution, aqueous solution, 10%	+	Nitric acid (10%)	+
Sodium, aqueous solution, 10%	+	Hydrochloric acid (10%)	+
Linseed oil	+	Water, RT, free from chlorine up to 80 °C	+
Milk	+	Water: sea water resistance, artificial, 20 °C	+
Lactic acid, 20 °C	+	Stannic chloride, 20 °C, saturated	+

TÜV certificate for outdoor use



RST® long-term studies:

In addition to the tests required by the standard, a continuous test was performed over 14 months. During this time, the connectors were exposed to direct sunlight, frost and occasional flooding. For this purpose, the **RST®** components were installed in an eaves gutter and monitored by a 30 mA circuit breaker with the mains voltage applied. The following tests were performed in addition to the continuous test:

– Temperature change test (– 40 °C to + 60 °C)

Please observe overleaf installation instructions.

The complete test report can be ordered from our hotline using the phone number +49 951/9324-996.

Installation instructions for outdoor electrical installations

Outdoor electrical installations are particularly tricky. Constant temperature changes, high UV radiation, high ozone values and, not least, mechanical wear leading to material fatigue, water ingress, and, finally, system failure.

Installation instructions

A horizontal installation position is preferable in order to ensure that water drains off. In accordance with installation regulation IEC 60364-5-52 (DIN VDE 0100-522.3), cable systems must be designed in such a way that damage caused by the ingress of water is avoided.

Cable systems must satisfy the required degree of protection. If water can accumulate or water condensation can occur, provisions for water drainage must be made! This particularly applies to sealing points in the area of the strain relief.

If abrasion might occur (in flexible installations), wear of the pre-assembled cable must be taken into consideration and must be monitored.

Avoid any bending of the cable in the area of the strain relief.

Control mechanical bending in the area of the strain relief using suitable measures (e.g. cable clamps).

Laying of the system components directly in the ground is not possible. According to VDE 0100-520, connectors must be protected using suitable additional facilities and must be accessible for visual inspection, testing, and maintenance.

The connector system is not designed for continuous operation under water. However, unplanned immersion is possible as foreseen by the specification.



Further information can be found in our White Paper „Installation instructions for outdoor electrical installations“, order no. 0693.1



... always the right cable

What is crucial for the durability of your unit is the perfect interaction between the materials used in order to defy the environmental conditions.

While all connectors and distribution units are designed for continuous indoor and outdoor operation, the cables are clearly a different matter. Selection of the appropriate cable plays a major role for continuous operation of the installation.

By default, we offer the low-cost H05VV-F cable, but its field of applications is restricted to indoor areas. This cable is not suitable for outdoor areas and constantly humid or wet rooms! Protection from foreign bodies (IP6X) is at the fore here. Temporary wetness for cleaning purposes, however, is allowed.

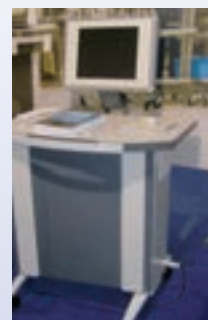
Temporary outdoor installations without special demands can be implemented using H07RN-F rubbersheathed cables. However, it is essential to check whether or not any additional action, such as laying inside installation pipes, is required.

If installations will be directly exposed to environmental influences for some time, the selection of a suitable cable must be discussed with Wieland.

PVC cable H05VV-F

Use inside dry rooms, not outdoors, not directly in the ground. Not UV resistant.

Minimum bending radius: 4 x outside diameter
Service temperature: 70 °C



Rubber-sheathed cable H07RN-F

Use inside dry, and wet rooms, as well as outdoors, but not directly in the ground. Limited UV resistant..

Minimum bending radius: 4 x outside diameter
Service temperature: 60 °C



Rubber-sheathed cable H07RN-F (enhanced version)

Use in dry, humid and wet rooms, as well as outdoors. UV and Ozon resistant. Cable halogen-free and flame retardant. Laying of the cable not directly in the ground.

Minimum bending radius: 4 x outside diameter
Service temperature: von -50 °C bis +90 °C



01.006.1553.0	64	05.545.4600.0	98	46.031.4554.1	42	46.051.5054.1	51
01.006.1553.0	85	05.545.4600.0	158	46.031.4554.9	42	46.052.4550.4	50
01.006.1553.0	111	05.564.4453.0	71	46.031.4555.7	42	46.052.4551.4	50
01.006.1553.0	127	05.564.4453.0	97	46.031.5050.4	43	46.052.4553.0	50
01.006.1553.0	133	05.564.4453.0	156	46.031.5050.6	43	46.052.4553.1	50
01.006.1553.1	64	05.564.4453.1	71	46.031.5051.4	43	46.052.4553.6	50
01.006.1553.1	85	05.564.4453.1	97	46.031.5051.6	43	46.052.4553.9	50
01.006.1553.1	111	05.564.4453.1	156	46.031.5053.0	43	46.052.4554.0	50
01.006.1553.1	127	05.564.4453.1	179	46.031.5053.1	43	46.052.4554.1	50
01.006.1553.1	133	05.564.8653.1	157	46.031.5053.9	43	46.052.5050.4	51
02.122.9000.0	98	05.564.8653.3	157	46.031.5054.0	43	46.052.5051.4	51
02.122.9000.0	158	05.564.8653.7	157	46.031.5054.1	43	46.052.5053.0	51
02.122.9100.0	98	05.565.8653.1	157	46.031.5054.9	43	46.052.5053.1	51
02.122.9100.0	158	05.565.8653.3	157	46.031.5055.7	43	46.052.5053.6	51
02.122.9200.0	98	05.565.8653.7	157	46.032.4550.4	42	46.052.5053.9	51
02.122.9200.0	158	05.565.9953.0	126	46.032.4550.6	42	46.052.5054.0	51
02.122.9300.0	98	05.565.9953.0	148	46.032.4551.4	42	46.052.5054.1	51
02.122.9300.0	158	05.565.9953.0	156	46.032.4551.6	42	46.422.0500.1	44
02.125.5521.8	127	05.565.9953.1	126	46.032.4553.0	42	46.422.0502.4	44
02.125.5521.8	149	05.565.9953.1	148	46.032.4553.1	42	46.422.0503.1	44
02.125.5521.8	158	05.565.9953.1	156	46.032.4553.9	42	46.422.0504.1	45
02.125.5621.8	127	05.566.5253.0	157	46.032.4554.0	42	46.422.0507.4	44
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02.125.5821.8	127	05.583.2900.3	157	46.032.5051.4	43	46.422.0537.4	44
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05.502.3500.0	127	46.030.0151.4	46	46.050.0153.1	54	46.422.1037.4	44
05.502.3500.0	149	46.030.0151.6	46	46.050.0153.6	54	46.422.1038.4	45
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05.544.8000.0	98	46.030.1251.4	46	46.050.1254.0	54	46.422.2034.1	45
05.544.8000.0	158	46.030.1251.6	46	46.050.1254.1	54	46.422.2037.4	44
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05.545.2921.8	195	46.031.4553.9	42	46.051.5053.9	51	46.422.4000.1	44
05.545.3021.8	195	46.031.4554.0	42	46.051.5054.0	51	46.422.4002.4	44

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46.422.4032.4	44	46.452.1003.1	52	95.101.0800.0	127	96.021.6153.1	66
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46.422.4037.4	44	46.452.1004.6	53	95.101.0800.0	195	96.022.0053.0	62
46.422.4038.4	45	46.452.1030.1	52	95.101.1300.0	159	96.022.0053.1	62
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46.432.0503.1	44	46.452.2033.1	52	96.021.0153.1	62	96.022.2150.8	66
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46.432.0533.1	44	46.452.2034.6	53	96.021.0253.1	64	96.022.2153.1	66
46.432.0534.1	45	46.452.3000.1	52	96.021.0351.4	64	96.022.4050.8	62
46.432.1000.1	44	46.452.3000.6	52	96.021.0353.0	64	96.022.4051.4	62
46.432.1003.1	44	46.452.3003.1	52	96.021.0353.1	64	96.022.4053.0	62
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46.432.1033.1	44	46.452.3004.6	53	96.021.0950.8	62	96.022.4153.1	62
46.432.1034.1	45	46.452.3030.1	52	96.021.0951.4	62	96.022.4453.0	62
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46.432.3004.1	45	46.452.4003.6	52	96.021.2151.4	66	96.022.6051.4	68
46.432.3030.1	44	46.452.4004.1	53	96.021.2153.0	66	96.022.6053.0	68
46.432.3033.1	44	46.452.4004.6	53	96.021.2153.1	66	96.022.6053.1	68
46.432.3034.1	45	46.452.4030.1	52	96.021.4050.8	62	96.022.6150.8	66
46.432.4000.1	44	46.452.4030.6	52	96.021.4051.4	62	96.022.6151.4	66
46.432.4003.1	44	46.452.4033.1	52	96.021.4053.0	62	96.022.6153.0	66
46.432.4004.1	45	46.452.4033.6	52	96.021.4053.1	62	96.022.6153.1	66
46.432.4030.1	44	46.452.4034.1	53	96.021.4153.0	62	96.023.0050.8	63
46.432.4033.1	44	46.452.4034.6	53	96.021.4153.1	62	96.023.0051.4	63
46.432.4034.1	45	46.452.5000.1	52	96.021.4251.4	64	96.023.0053.0	63
46.432.5000.1	44	46.452.5000.6	52	96.021.4253.0	64	96.023.0053.1	63
46.432.5003.1	44	46.452.5003.1	52	96.021.4253.1	64	96.023.0153.0	63
46.432.5004.1	45	46.452.5003.6	52	96.021.4351.4	64	96.023.0153.1	63
46.432.5030.1	44	46.452.5004.1	53	96.021.4353.0	64	96.023.0453.0	63
46.432.5033.1	44	46.452.5004.6	53	96.021.4353.1	64	96.023.0453.1	63
46.432.5034.1	45	46.452.5030.1	52	96.021.4453.0	62	96.023.0950.8	63
46.452.0500.1	52	46.452.5030.6	52	96.021.4453.1	62	96.023.0951.4	63
46.452.0500.6	52	46.452.5033.1	52	96.021.4950.8	62	96.023.2050.8	69
46.452.0503.1	52	46.452.5033.6	52	96.021.4951.4	62	96.023.2051.4	69
46.452.0503.6	52	46.452.5034.1	53	96.021.5050.8	65	96.023.2053.0	69
46.452.0504.1	53	46.452.5034.6	53	96.021.5051.4	65	96.023.2053.1	69
46.452.0504.6	53	83.020.0504.0	178	96.021.5053.0	65	96.023.2250.8	70
46.452.0530.1	52	83.020.0504.1	178	96.021.5053.1	65	96.023.2251.4	70
46.452.0530.6	52	83.020.0505.0	178	96.021.6050.8	68	96.023.2253.0	70
46.452.0533.1	52	83.020.0900.0	179	96.021.6051.4	68	96.023.2253.1	70

96.023.4050.8	63	96.026.6153.0	67	96.031.5054.3	103	96.032.6155.7	88
96.023.4051.4	63	96.026.6153.1	67	96.031.5055.7	86	96.033.0051.4	83
96.023.4053.0	63	96.030.0151.4	96	96.031.6051.4	87	96.033.0053.0	83
96.023.4053.1	63	96.030.0153.0	96	96.031.6053.0	87	96.033.0053.1	83
96.023.4153.0	63	96.030.0153.1	96	96.031.6053.1	87	96.033.0053.9	83
96.023.4153.1	63	96.030.0155.7	96	96.031.6053.9	87	96.033.0055.7	83
96.023.4453.0	63	96.030.0251.4	96	96.031.6055.7	87	96.033.0151.4	83
96.023.4453.1	63	96.030.0253.0	96	96.031.6151.4	88	96.033.0153.0	83
96.023.4950.8	63	96.030.0253.1	96	96.031.6153.0	88	96.033.0153.1	83
96.023.4951.4	63	96.030.0255.7	96	96.031.6153.1	88	96.033.0153.9	83
96.023.6050.8	69	96.031.0051.4	82	96.031.6153.9	88	96.033.0155.7	83
96.023.6051.4	69	96.031.0053.0	82	96.031.6155.7	88	96.033.2051.4	90
96.023.6053.0	69	96.031.0053.1	82	96.032.0051.4	82	96.033.2053.0	90
96.023.6053.1	69	96.031.0053.9	82	96.032.0053.0	82	96.033.2053.1	90
96.023.6250.8	70	96.031.0055.7	82	96.032.0053.1	82	96.033.2053.9	90
96.023.6251.4	70	96.031.0151.4	82	96.032.0053.9	82	96.033.2055.7	90
96.023.6253.0	70	96.031.0153.0	82	96.032.0055.7	82	96.033.2251.4	91
96.023.6253.1	70	96.031.0153.1	82	96.032.0151.4	82	96.033.2253.0	91
96.024.0050.8	63	96.031.0153.9	82	96.032.0153.0	82	96.033.2253.1	91
96.024.0051.4	63	96.031.0155.7	82	96.032.0153.1	82	96.033.2253.9	91
96.024.0053.0	63	96.031.0253.0	85	96.032.0153.9	82	96.033.2255.7	91
96.024.0053.1	63	96.031.0253.1	85	96.032.0155.7	82	96.033.4051.4	83
96.024.0153.0	63	96.031.0255.7	85	96.032.1051.4	86	96.033.4053.0	83
96.024.0153.1	63	96.031.0353.0	85	96.032.1053.0	86	96.033.4053.1	83
96.024.0453.0	63	96.031.0353.1	85	96.032.1053.1	86	96.033.4053.9	83
96.024.0453.1	63	96.031.0353.9	85	96.032.1053.9	86	96.033.4055.7	83
96.024.0950.8	63	96.031.0355.7	85	96.032.1055.7	86	96.033.4151.4	83
96.024.0951.4	63	96.031.1051.4	86	96.032.1055.7	86	96.033.4151.4	83
96.024.2050.8	69	96.031.1051.4	86	96.032.2051.4	87	96.033.4153.0	83
96.024.2051.4	69	96.031.1053.0	86	96.032.2051.4	87	96.033.4153.1	83
96.024.2051.4	69	96.031.1053.1	86	96.032.2053.0	87	96.033.4153.9	83
96.024.2053.0	69	96.031.1053.9	86	96.032.2053.1	87	96.033.4155.7	83
96.024.2053.1	69	96.031.1055.7	86	96.032.2053.9	87	96.033.6051.4	90
96.024.2250.8	70	96.031.2051.4	87	96.032.2055.7	87	96.033.6053.0	90
96.024.2251.4	70	96.031.2053.0	87	96.032.2151.4	88	96.033.6053.1	90
96.024.2253.0	70	96.031.2053.1	87	96.032.2153.0	88	96.033.6053.9	90
96.024.2253.1	70	96.031.2053.9	87	96.032.2153.1	88	96.033.6055.7	90
96.024.4050.8	63	96.031.2055.7	87	96.032.2153.9	88	96.033.6251.4	91
96.024.4051.4	63	96.031.2055.7	87	96.032.2155.7	88	96.033.6253.0	91
96.024.4053.0	63	96.031.2151.4	88	96.032.2155.7	88	96.033.6253.1	91
96.024.4053.1	63	96.031.2153.0	88	96.032.4051.4	82	96.033.6253.9	91
96.024.4053.1	63	96.031.2153.1	88	96.032.4053.0	82	96.033.6255.7	91
96.024.4153.0	63	96.031.2153.9	88	96.032.4053.1	82	96.034.0051.4	83
96.024.4153.1	63	96.031.2155.7	88	96.032.4053.9	82	96.034.0053.0	83
96.024.4453.0	63	96.031.4051.4	82	96.032.4055.7	82	96.034.0053.1	83
96.024.4453.1	63	96.031.4051.4	82	96.032.4151.4	82	96.034.0053.9	83
96.024.4453.1	63	96.031.4053.0	82	96.032.4153.0	82	96.034.0055.7	83
96.024.4950.8	63	96.031.4053.1	82	96.032.4153.1	82	96.034.0151.4	83
96.024.4951.4	63	96.031.4053.9	82	96.032.4153.9	82	96.034.0153.0	83
96.024.6050.8	69	96.031.4055.7	82	96.032.4155.7	82	96.034.0153.1	83
96.024.6051.4	69	96.031.4151.4	82	96.032.4154.3	102	96.034.0153.9	83
96.024.6053.0	69	96.031.4153.0	82	96.032.4155.7	82	96.034.0155.7	83
96.024.6053.1	69	96.031.4153.1	82	96.032.4553.0	84	96.034.2051.4	90
96.024.6250.8	70	96.031.4153.1	82	96.032.4553.1	84	96.034.2053.0	90
96.024.6251.4	70	96.031.4153.9	82	96.032.4554.3	102	96.034.2053.9	90
96.024.6251.4	70	96.031.4154.3	102	96.032.4555.7	84	96.034.2055.7	90
96.024.6253.0	70	96.031.4155.7	82	96.032.4555.7	84	96.034.2251.4	91
96.024.6253.1	70	96.031.4253.0	85	96.032.5051.4	86	96.034.2253.0	91
96.025.2151.4	67	96.031.4253.1	85	96.032.5053.0	86	96.034.2253.1	91
96.025.2153.0	67	96.031.4255.7	85	96.032.5053.1	86	96.034.2253.9	91
96.025.2153.1	67	96.031.4353.0	85	96.032.5053.9	86	96.034.2255.7	91
96.025.6150.8	67	96.031.4353.1	85	96.032.5054.3	103	96.034.4051.4	83
96.025.6151.4	67	96.031.4355.7	85	96.032.5055.7	86	96.034.4053.0	83
96.025.6153.0	67	96.031.4553.0	84	96.032.6051.4	87	96.034.4053.1	83
96.025.6153.1	67	96.031.4553.1	84	96.032.6053.0	87	96.034.4053.9	83
96.026.2150.8	67	96.031.4553.1	84	96.032.6053.1	87	96.034.4055.7	83
96.026.2151.4	67	96.031.4554.3	102	96.032.6053.9	87	96.034.4151.4	83
96.026.2153.0	67	96.031.4555.7	84	96.032.6055.7	87		
96.026.2153.1	67	96.031.5051.4	86	96.032.6151.4	88		
96.026.6150.8	67	96.031.5053.0	86	96.032.6153.0	88		
96.026.6151.4	67	96.031.5053.1	86	96.032.6153.1	88		
		96.031.5053.9	86	96.032.6153.9	88		

96.034.4153.0	83	96.042.6051.4	113	96.051.4551.4	132	96.053.6053.0	138
96.034.4153.1	83	96.042.6053.0	113	96.051.4553.0	132	96.053.6053.1	138
96.034.4153.9	83	96.042.6053.1	113	96.051.4553.1	132	96.053.6053.6	138
96.034.4155.7	83	96.042.6151.4	114	96.051.4553.6	132	96.053.6053.9	138
96.034.6051.4	90	96.042.6153.0	114	96.051.4553.9	132	96.053.6251.4	139
96.034.6053.0	90	96.042.6153.1	114	96.051.4554.3	152	96.053.6253.0	139
96.034.6053.1	90	96.043.4051.4	109	96.051.5051.4	134	96.053.6253.1	139
96.034.6053.9	90	96.043.4053.0	109	96.051.5053.0	134	96.053.6253.6	139
96.034.6055.7	90	96.043.4053.1	109	96.051.5053.1	134	96.053.6253.9	139
96.034.6251.4	91	96.043.4153.0	109	96.051.5053.6	134	96.054.4051.4	131
96.034.6253.0	91	96.043.4153.1	109	96.051.5053.9	134	96.054.4053.0	131
96.034.6253.1	91	96.043.4851.4	109	96.051.5054.3	153	96.054.4053.1	131
96.034.6253.9	91	96.043.4951.4	109	96.051.6051.4	135	96.054.4053.6	131
96.034.6255.7	91	96.043.6051.4	116	96.051.6053.0	135	96.054.4053.9	131
96.035.2151.4	89	96.043.6053.0	116	96.051.6053.1	135	96.054.4151.4	131
96.035.2153.0	89	96.043.6053.1	116	96.051.6053.6	135	96.054.4153.0	131
96.035.2153.1	89	96.043.6251.4	117	96.051.6053.9	135	96.054.4153.1	131
96.035.2153.9	89	96.043.6253.0	117	96.051.6151.4	136	96.054.4153.6	131
96.035.2155.7	89	96.043.6253.1	117	96.051.6153.0	136	96.054.4153.9	131
96.035.6151.4	89	96.044.4051.4	109	96.051.6153.1	136	96.054.6051.4	138
96.035.6153.0	89	96.044.4053.0	109	96.051.6153.6	136	96.054.6053.0	138
96.035.6153.1	89	96.044.4053.1	109	96.051.6153.9	136	96.054.6053.1	138
96.035.6153.9	89	96.044.4153.0	109	96.052.4051.4	130	96.054.6053.6	138
96.035.6155.7	89	96.044.4153.1	109	96.052.4053.0	130	96.054.6053.9	138
96.036.2151.4	89	96.044.4851.4	109	96.052.4053.1	130	96.054.6251.4	139
96.036.2153.0	89	96.044.4951.4	109	96.052.4053.2	130	96.054.6253.0	139
96.036.2153.1	89	96.044.6051.4	116	96.052.4053.6	130	96.054.6253.1	139
96.036.2153.9	89	96.044.6053.0	116	96.052.4053.9	130	96.054.6253.6	139
96.036.2155.7	89	96.044.6053.1	116	96.052.4151.4	130	96.054.6253.9	139
96.036.6151.4	89	96.044.6251.4	117	96.052.4153.0	130	96.055.6151.4	137
96.036.6153.0	89	96.044.6253.0	117	96.052.4153.1	130	96.055.6153.0	137
96.036.6153.1	89	96.044.6253.1	117	96.052.4153.6	130	96.055.6153.1	137
96.036.6153.9	89	96.045.6151.4	115	96.052.4153.9	130	96.055.6153.6	137
96.036.6155.7	89	96.045.6153.0	115	96.052.4154.3	152	96.055.6153.9	137
96.040.0151.4	175	96.045.6153.1	115	96.052.4551.4	132	96.056.6151.4	137
96.041.4051.4	108	96.046.6151.4	115	96.052.4553.0	132	96.056.6153.0	137
96.041.4053.0	108	96.046.6153.0	115	96.052.4553.1	132	96.056.6153.1	137
96.041.4053.1	108	96.046.6153.1	115	96.052.4553.6	132	96.056.6153.6	137
96.041.4153.0	108	96.050.0153.1	148	96.052.4553.9	132	96.056.6153.9	137
96.041.4153.1	108	96.050.0153.1	174	96.052.4554.3	152	96.131.0053.0	82
96.041.4253.0	111	96.050.1153.1	174	96.052.5051.4	134	96.131.0053.1	82
96.041.4253.1	111	96.050.2153.1	148	96.052.5053.0	134	96.131.0153.0	82
96.041.4353.0	111	96.050.3153.1	174	96.052.5053.1	134	96.131.0153.1	82
96.041.4353.1	111	96.050.4153.1	174	96.052.5053.6	134	96.131.1053.0	86
96.041.4553.0	110	96.050.5153.1	174	96.052.5053.9	134	96.131.1053.1	86
96.041.4553.1	110	96.050.6153.1	174	96.052.5054.3	153	96.131.2053.0	87
96.041.4951.4	108	96.050.7153.1	176	96.052.6051.4	135	96.131.2053.1	87
96.041.5051.4	112	96.051.4051.4	130	96.052.6053.0	135	96.131.2153.0	88
96.041.5053.0	112	96.051.4053.0	130	96.052.6053.1	135	96.131.2153.1	88
96.041.5053.1	112	96.051.4053.1	130	96.052.6053.6	135	96.131.4553.0	84
96.041.6051.4	113	96.051.4053.2	130	96.052.6053.9	135	96.131.4553.1	84
96.041.6053.0	113	96.051.4053.6	130	96.052.6151.4	136	96.132.0053.0	82
96.041.6053.1	113	96.051.4053.9	130	96.052.6153.0	136	96.132.0053.1	82
96.041.6151.4	114	96.051.4151.4	130	96.052.6153.1	136	96.132.0153.0	82
96.041.6153.0	114	96.051.4153.0	130	96.052.6153.6	136	96.132.0153.1	82
96.041.6153.1	114	96.051.4153.1	130	96.052.6153.9	136	96.132.1053.0	86
96.042.4051.4	108	96.051.4153.6	130	96.053.4051.4	131	96.132.1053.1	86
96.042.4053.0	108	96.051.4153.9	130	96.053.4053.0	131	96.132.2053.0	87
96.042.4053.1	108	96.051.4154.3	152	96.053.4053.1	131	96.132.2053.1	87
96.042.4153.0	108	96.051.4251.4	133	96.053.4053.6	131	96.132.2153.0	88
96.042.4153.1	108	96.051.4253.0	133	96.053.4053.9	131	96.132.2153.1	88
96.042.4553.0	110	96.051.4253.1	133	96.053.4151.4	131	96.132.4553.0	84
96.042.4553.1	110	96.051.4253.6	133	96.053.4153.0	131	96.132.4553.1	84
96.042.4951.4	108	96.051.4351.4	133	96.053.4153.1	131	96.133.0053.0	83
96.042.5051.4	112	96.051.4353.0	133	96.053.4153.6	131	96.133.0053.1	83
96.042.5053.0	112	96.051.4353.1	133	96.053.4153.9	131	96.133.0153.0	83
96.042.5053.1	112	96.051.4353.6	133	96.053.6051.4	138	96.133.0153.1	83



96.133.2053.0	90	96.151.0153.1	130	96.153.2053.1	138	96.222.2038.4	73
96.133.2053.1	90	96.151.0153.6	130	96.153.2053.6	138	96.222.2092.4	74
96.133.2253.0	91	96.151.0153.9	130	96.153.2053.9	138	96.222.2092.8	74
96.133.2253.1	91	96.151.0551.4	132	96.153.2251.4	139	96.222.2097.4	74
96.134.0053.0	83	96.151.0553.0	132	96.153.2253.0	139	96.222.2097.8	74
96.134.0053.1	83	96.151.0553.1	132	96.153.2253.1	139	96.222.2098.4	75
96.134.0153.0	83	96.151.0553.6	132	96.153.2253.6	139	96.222.2098.8	75
96.134.0153.1	83	96.151.0553.9	132	96.153.2253.9	139	96.222.3000.1	72
96.134.2053.0	90	96.151.1051.4	134	96.154.0051.4	131	96.222.3002.4	72
96.134.2053.1	90	96.151.1053.0	134	96.154.0053.0	131	96.222.3003.1	72
96.134.2253.0	91	96.151.1053.1	134	96.154.0053.1	131	96.222.3004.1	73
96.134.2253.1	91	96.151.1053.2	134	96.154.0053.6	131	96.222.3007.4	72
96.135.2153.0	89	96.151.1053.6	134	96.154.0053.9	131	96.222.3008.4	73
96.135.2153.1	89	96.151.1053.9	134	96.154.0151.4	131	96.222.3030.1	72
96.136.2153.0	89	96.151.2051.4	135	96.154.0153.0	131	96.222.3032.4	72
96.136.2153.1	89	96.151.2053.0	135	96.154.0153.1	131	96.222.3033.1	72
96.141.0053.0	108	96.151.2053.1	135	96.154.0153.6	131	96.222.3034.1	73
96.141.0053.1	108	96.151.2053.6	135	96.154.0153.9	131	96.222.3037.4	72
96.141.0153.0	108	96.151.2053.9	135	96.154.2051.4	138	96.222.3038.4	73
96.141.0153.1	108	96.151.2151.4	136	96.154.2053.0	138	96.222.3092.4	74
96.141.0553.0	110	96.151.2153.0	136	96.154.2053.1	138	96.222.3092.8	74
96.141.0553.1	110	96.151.2153.1	136	96.154.2053.6	138	96.222.3097.4	74
96.141.1053.0	112	96.151.2153.6	136	96.154.2053.9	138	96.222.3097.8	74
96.141.1053.1	112	96.151.2153.9	136	96.154.2251.4	139	96.222.3098.4	75
96.141.2053.0	113	96.152.0051.4	130	96.154.2253.0	139	96.222.3098.8	75
96.141.2053.1	113	96.152.0053.0	130	96.154.2253.1	139	96.222.4000.1	72
96.141.2153.0	114	96.152.0053.1	130	96.154.2253.6	139	96.222.4002.4	72
96.141.2153.1	114	96.152.0053.6	130	96.154.2253.9	139	96.222.4003.1	72
96.142.0053.0	108	96.152.0053.9	130	96.155.2151.4	137	96.222.4004.1	73
96.142.0053.1	108	96.152.0151.4	130	96.155.2153.0	137	96.222.4007.4	72
96.142.0153.0	108	96.152.0153.0	130	96.155.2153.1	137	96.222.4008.4	73
96.142.0153.1	108	96.152.0153.1	130	96.155.2153.6	137	96.222.4030.1	72
96.142.0553.0	110	96.152.0153.6	130	96.155.2153.9	137	96.222.4032.4	72
96.142.0553.1	110	96.152.0153.9	130	96.156.2151.4	137	96.222.4033.1	72
96.142.1053.0	112	96.152.0551.4	132	96.156.2153.0	137	96.222.4034.1	73
96.142.1053.1	112	96.152.0553.0	132	96.156.2153.1	137	96.222.4037.4	72
96.142.2053.0	113	96.152.0553.1	132	96.156.2153.6	137	96.222.4038.4	73
96.142.2053.1	113	96.152.0553.6	132	96.156.2153.9	137	96.222.4092.4	74
96.142.2153.0	114	96.152.0553.9	132	96.222.1000.1	72	96.222.4092.8	74
96.142.2153.1	114	96.152.1051.4	134	96.222.1002.4	72	96.222.4097.4	74
96.143.0053.0	109	96.152.1053.0	134	96.222.1003.1	72	96.222.4097.8	74
96.143.0053.1	109	96.152.1053.1	134	96.222.1004.1	73	96.222.4098.4	75
96.143.0153.0	109	96.152.1053.2	134	96.222.1007.4	72	96.222.4098.8	75
96.143.0153.1	109	96.152.1053.6	134	96.222.1008.4	73	96.222.5000.1	72
96.143.2053.0	116	96.152.1053.9	134	96.222.1030.1	72	96.222.5002.4	72
96.143.2053.1	116	96.152.2051.4	135	96.222.1032.4	72	96.222.5003.1	72
96.143.2253.0	117	96.152.2053.0	135	96.222.1033.1	72	96.222.5004.1	73
96.143.2253.1	117	96.152.2053.1	135	96.222.1034.1	73	96.222.5007.4	72
96.144.0053.0	109	96.152.2053.6	135	96.222.1037.4	72	96.222.5008.4	73
96.144.0053.1	109	96.152.2053.9	135	96.222.1037.4	72	96.222.5008.4	73
96.144.0153.0	109	96.152.2053.9	135	96.222.1038.4	73	96.222.5030.1	72
96.144.0153.1	109	96.152.2151.4	136	96.222.1092.4	74	96.222.5032.4	72
96.144.0153.1	109	96.152.2153.0	136	96.222.1092.8	74	96.222.5033.1	72
96.144.2053.0	116	96.152.2153.1	136	96.222.1097.4	74	96.222.5034.1	73
96.144.2053.1	116	96.152.2153.6	136	96.222.1097.8	74	96.222.5037.4	72
96.144.2253.0	117	96.152.2153.9	136	96.222.1098.4	75	96.222.5038.4	73
96.144.2253.1	117	96.153.0051.4	131	96.222.1098.8	75	96.222.5092.4	74
96.145.2153.0	115	96.153.0053.0	131	96.222.2000.1	72	96.222.5092.8	74
96.145.2153.1	115	96.153.0053.1	131	96.222.2002.4	72	96.222.5097.4	74
96.146.2153.0	115	96.153.0053.6	131	96.222.2003.1	72	96.222.5097.8	74
96.146.2153.1	115	96.153.0053.9	131	96.222.2004.1	73	96.222.5098.4	75
96.151.0051.4	130	96.153.0151.4	131	96.222.2007.4	72	96.222.5098.8	75
96.151.0053.0	130	96.153.0153.0	131	96.222.2008.4	73	96.222.6000.1	72
96.151.0053.1	130	96.153.0153.1	131	96.222.2030.1	72	96.222.6002.4	72
96.151.0053.6	130	96.153.0153.6	131	96.222.2032.4	72	96.222.6003.1	72
96.151.0053.9	130	96.153.0153.9	131	96.222.2033.1	72	96.222.6004.1	73
96.151.0151.4	130	96.153.2051.4	138	96.222.2034.1	73	96.222.6007.4	72
96.151.0153.0	130	96.153.2053.0	138	96.222.2037.4	72	96.222.6008.4	73

96.222.6030.1	72	96.223.4092.8	76	96.232.3033.1	92	96.232.8000.1	92
96.222.6032.4	72	96.223.4097.4	76	96.232.3034.1	93	96.232.8001.7	92
96.222.6033.1	72	96.223.4097.8	76	96.232.3035.7	92	96.232.8003.1	92
96.222.6034.1	73	96.223.4098.4	77	96.232.3036.7	93	96.232.8004.1	93
96.222.6037.4	72	96.223.4098.8	77	96.232.3050.1	92	96.232.8005.7	92
96.222.6038.4	73	96.223.5092.4	76	96.232.3053.1	92	96.232.8006.7	93
96.222.6092.4	74	96.223.5092.8	76	96.232.3054.1	93	96.232.8030.1	92
96.222.6092.8	74	96.223.5097.4	76	96.232.4000.1	92	96.232.8031.7	92
96.222.6097.4	74	96.223.5097.8	76	96.232.4001.7	92	96.232.8033.1	92
96.222.6097.8	74	96.223.5098.4	77	96.232.4003.1	92	96.232.8034.1	93
96.222.6098.4	75	96.223.5098.8	77	96.232.4004.1	93	96.232.8035.7	92
96.222.6098.8	75	96.223.6092.4	76	96.232.4005.7	92	96.232.8036.7	93
96.222.7000.1	72	96.223.6092.8	76	96.232.4006.7	93	96.232.8050.1	92
96.222.7002.4	72	96.223.6097.4	76	96.232.4030.1	92	96.232.8053.1	92
96.222.7003.1	72	96.223.6097.8	76	96.232.4031.7	92	96.232.8054.1	93
96.222.7004.1	73	96.223.6098.4	77	96.232.4033.1	92	96.232.1000.1	94
96.222.7007.4	72	96.223.6098.8	77	96.232.4034.1	93	96.233.1001.7	94
96.222.7008.4	73	96.223.7092.4	76	96.232.4035.7	92	96.233.1003.1	94
96.222.7030.1	72	96.223.7092.8	76	96.232.4036.7	93	96.233.1004.1	95
96.222.7032.4	72	96.223.7097.4	76	96.232.4050.1	92	96.233.1005.7	94
96.222.7033.1	72	96.223.7097.8	76	96.232.4053.1	92	96.233.1006.7	95
96.222.7034.1	73	96.223.7098.4	77	96.232.4054.1	93	96.233.1030.1	94
96.222.7037.4	72	96.223.7098.8	77	96.232.5000.1	92	96.233.1031.7	94
96.222.7038.4	73	96.223.8092.4	76	96.232.5001.7	92	96.233.1033.1	94
96.222.7092.4	74	96.223.8092.8	76	96.232.5003.1	92	96.233.1034.1	95
96.222.7092.8	74	96.223.8097.4	76	96.232.5004.1	93	96.233.1035.7	94
96.222.7097.4	74	96.223.8097.8	76	96.232.5005.7	92	96.233.1036.7	95
96.222.7097.8	74	96.223.8098.4	77	96.232.5006.7	93	96.233.1050.1	94
96.222.7098.4	75	96.223.8098.8	77	96.232.5030.1	92	96.233.1053.1	94
96.222.7098.8	75	96.232.1000.1	92	96.232.5031.7	92	96.233.1054.1	95
96.222.8000.1	72	96.232.1001.7	92	96.232.5033.1	92	96.233.2000.1	94
96.222.8002.4	72	96.232.1003.1	92	96.232.5034.1	93	96.233.2001.7	94
96.222.8003.1	72	96.232.1004.1	93	96.232.5035.7	92	96.233.2003.1	94
96.222.8004.1	73	96.232.1005.7	92	96.232.5036.7	93	96.233.2004.1	95
96.222.8007.4	72	96.232.1006.7	93	96.232.5050.1	92	96.233.2005.7	94
96.222.8008.4	73	96.232.1030.1	92	96.232.5053.1	92	96.233.2006.7	95
96.222.8030.1	72	96.232.1031.7	92	96.232.5054.1	93	96.233.2030.1	94
96.222.8032.4	72	96.232.1033.1	92	96.232.6000.1	92	96.233.2031.7	94
96.222.8033.1	72	96.232.1034.1	93	96.232.6001.7	92	96.233.2033.1	94
96.222.8034.1	73	96.232.1035.7	92	96.232.6003.1	92	96.233.2034.1	95
96.222.8037.4	72	96.232.1036.7	93	96.232.6004.1	93	96.233.2035.7	94
96.222.8038.4	73	96.232.1050.1	92	96.232.6005.7	92	96.233.2036.7	95
96.222.8092.4	74	96.232.1053.1	92	96.232.6006.7	93	96.233.2050.1	94
96.222.8092.8	74	96.232.1054.1	93	96.232.6030.1	92	96.233.2053.1	94
96.222.8097.4	74	96.232.2000.1	92	96.232.6031.7	92	96.233.2054.1	95
96.222.8097.8	74	96.232.2001.7	92	96.232.6033.1	92	96.233.3000.1	94
96.222.8098.4	75	96.232.2003.1	92	96.232.6034.1	93	96.233.3001.7	94
96.222.8098.8	75	96.232.2004.1	93	96.232.6035.7	92	96.233.3003.1	94
96.223.1092.4	76	96.232.2005.7	92	96.232.6036.7	93	96.233.3004.1	95
96.223.1092.8	76	96.232.2006.7	93	96.232.6050.1	92	96.233.3005.7	94
96.223.1097.4	76	96.232.2030.1	92	96.232.6053.1	92	96.233.3006.7	95
96.223.1097.8	76	96.232.2031.7	92	96.232.6054.1	93	96.233.3030.1	94
96.223.1098.4	77	96.232.2033.1	92	96.232.7000.1	92	96.233.3031.7	94
96.223.1098.8	77	96.232.2034.1	93	96.232.7001.7	92	96.233.3033.1	94
96.223.2092.4	76	96.232.2035.7	92	96.232.7003.1	92	96.233.3034.1	95
96.223.2092.8	76	96.232.2036.7	93	96.232.7004.1	93	96.233.3035.7	94
96.223.2097.4	76	96.232.2050.1	92	96.232.7005.7	92	96.233.3036.7	95
96.223.2097.8	76	96.232.2053.1	92	96.232.7006.7	93	96.233.3050.1	94
96.223.2098.4	77	96.232.2054.1	93	96.232.7030.1	92	96.233.3053.1	94
96.223.2098.8	77	96.232.3000.1	92	96.232.7031.7	92	96.233.3054.1	95
96.223.3092.4	76	96.232.3001.7	92	96.232.7033.1	92	96.233.4000.1	94
96.223.3092.8	76	96.232.3003.1	92	96.232.7034.1	93	96.233.4001.7	94
96.223.3097.4	76	96.232.3004.1	93	96.232.7035.7	92	96.233.4003.1	94
96.223.3097.8	76	96.232.3005.7	92	96.232.7036.7	93	96.233.4004.1	95
96.223.3098.4	77	96.232.3006.7	93	96.232.7050.1	92	96.233.4005.7	94
96.223.3098.8	77	96.232.3030.1	92	96.232.7053.1	92	96.233.4006.7	95
96.223.4092.4	76	96.232.3031.7	92	96.232.7054.1	93	96.233.4030.1	94



96.233.4031.7	94	96.233.8054.1	95	96.442.8030.1	118	96.443.7087.4	124
96.233.4033.1	94	96.442.1000.1	118	96.442.8033.1	118	96.443.7088.4	125
96.233.4034.1	95	96.442.1003.1	118	96.442.8034.1	119	96.443.8000.1	120
96.233.4035.7	94	96.442.1004.1	119	96.442.8080.1	122	96.443.8003.1	120
96.233.4036.7	95	96.442.1030.1	118	96.442.8083.1	122	96.443.8004.1	121
96.233.4050.1	94	96.442.1033.1	118	96.442.8084.1	123	96.443.8030.1	120
96.233.4053.1	94	96.442.1034.1	119	96.443.1000.1	120	96.443.8033.1	120
96.233.4054.1	95	96.442.1080.1	122	96.443.1003.1	120	96.443.8034.1	121
96.233.5000.1	94	96.442.1083.1	122	96.443.1004.1	121	96.443.8082.4	124
96.233.5001.7	94	96.442.1084.1	123	96.443.1030.1	120	96.443.8087.4	124
96.233.5003.1	94	96.442.2000.1	118	96.443.1033.1	120	96.443.8088.4	125
96.233.5004.1	95	96.442.2003.1	118	96.443.1034.1	121	96.452.1000.1	140
96.233.5005.7	94	96.442.2004.1	119	96.443.1082.4	124	96.452.1000.6	140
96.233.5006.7	95	96.442.2030.1	118	96.443.1087.4	124	96.452.1003.1	140
96.233.5030.1	94	96.442.2033.1	118	96.443.1088.4	125	96.452.1003.6	140
96.233.5031.7	94	96.442.2034.1	119	96.443.2000.1	120	96.452.1004.1	141
96.233.5033.1	94	96.442.2080.1	122	96.443.2003.1	120	96.452.1004.6	141
96.233.5034.1	95	96.442.2083.1	122	96.443.2004.1	121	96.452.1030.1	140
96.233.5035.7	94	96.442.2084.1	123	96.443.2030.1	120	96.452.1030.6	140
96.233.5036.7	95	96.442.3000.1	118	96.443.2033.1	120	96.452.1033.1	140
96.233.5050.1	94	96.442.3003.1	118	96.443.2034.1	121	96.452.1033.6	140
96.233.5053.1	94	96.442.3004.1	119	96.443.2082.4	124	96.452.1034.1	141
96.233.5054.1	95	96.442.3030.1	118	96.443.2087.4	124	96.452.1034.6	141
96.233.6000.1	94	96.442.3033.1	118	96.443.2088.4	125	96.452.1050.1	140
96.233.6001.7	94	96.442.3034.1	119	96.443.3000.1	120	96.452.1053.1	140
96.233.6003.1	94	96.442.3080.1	122	96.443.3003.1	120	96.452.1054.1	141
96.233.6004.1	95	96.442.3083.1	122	96.443.3004.1	121	96.452.2000.1	140
96.233.6005.7	94	96.442.3084.1	123	96.443.3030.1	120	96.452.2000.6	140
96.233.6006.7	95	96.442.4000.1	118	96.443.3033.1	120	96.452.2003.1	140
96.233.6030.1	94	96.442.4003.1	118	96.443.3034.1	121	96.452.2003.6	140
96.233.6031.7	94	96.442.4004.1	119	96.443.3082.4	124	96.452.2004.1	141
96.233.6033.1	94	96.442.4030.1	118	96.443.3087.4	124	96.452.2004.6	141
96.233.6034.1	95	96.442.4033.1	118	96.443.3088.4	125	96.452.2030.1	140
96.233.6035.7	94	96.442.4034.1	119	96.443.4000.1	120	96.452.2030.6	140
96.233.6036.7	95	96.442.4080.1	122	96.443.4003.1	120	96.452.2033.1	140
96.233.6050.1	94	96.442.4083.1	122	96.443.4004.1	121	96.452.2033.6	140
96.233.6053.1	94	96.442.4084.1	123	96.443.4030.1	120	96.452.2034.1	141
96.233.6054.1	95	96.442.5000.1	118	96.443.4033.1	120	96.452.2034.6	141
96.233.7000.1	94	96.442.5003.1	118	96.443.4034.1	121	96.452.2050.1	140
96.233.7001.7	94	96.442.5004.1	119	96.443.4082.4	124	96.452.2053.1	140
96.233.7003.1	94	96.442.5030.1	118	96.443.4087.4	124	96.452.2054.1	141
96.233.7004.1	95	96.442.5033.1	118	96.443.4088.4	125	96.452.3000.1	140
96.233.7005.7	94	96.442.5034.1	119	96.443.5000.1	120	96.452.3000.6	140
96.233.7006.7	95	96.442.5080.1	122	96.443.5003.1	120	96.452.3003.1	140
96.233.7030.1	94	96.442.5083.1	122	96.443.5004.1	121	96.452.3003.6	140
96.233.7031.7	94	96.442.5084.1	123	96.443.5030.1	120	96.452.3004.1	141
96.233.7033.1	94	96.442.6000.1	118	96.443.5033.1	120	96.452.3004.6	141
96.233.7034.1	95	96.442.6003.1	118	96.443.5034.1	121	96.452.3030.1	140
96.233.7035.7	94	96.442.6004.1	119	96.443.5082.4	124	96.452.3030.6	140
96.233.7036.7	95	96.442.6030.1	118	96.443.5087.4	124	96.452.3033.1	140
96.233.7050.1	94	96.442.6033.1	118	96.443.5088.4	125	96.452.3033.6	140
96.233.7053.1	94	96.442.6034.1	119	96.443.6000.1	120	96.452.3034.1	141
96.233.7054.1	95	96.442.6080.1	122	96.443.6003.1	120	96.452.3034.6	141
96.233.8000.1	94	96.442.6083.1	122	96.443.6004.1	121	96.452.3050.1	140
96.233.8001.7	94	96.442.6084.1	123	96.443.6030.1	120	96.452.3053.1	140
96.233.8003.1	94	96.442.7000.1	118	96.443.6033.1	120	96.452.3054.1	141
96.233.8004.1	95	96.442.7003.1	118	96.443.6034.1	121	96.452.4000.1	140
96.233.8005.7	94	96.442.7004.1	119	96.443.6082.4	124	96.452.4000.6	140
96.233.8006.7	95	96.442.7030.1	118	96.443.6087.4	124	96.452.4003.1	140
96.233.8030.1	94	96.442.7033.1	118	96.443.6088.4	125	96.452.4003.6	140
96.233.8031.7	94	96.442.7034.1	119	96.443.7000.1	120	96.452.4004.1	141
96.233.8033.1	94	96.442.7080.1	122	96.443.7003.1	120	96.452.4004.6	141
96.233.8034.1	95	96.442.7083.1	122	96.443.7004.1	121	96.452.4030.1	140
96.233.8035.7	94	96.442.7084.1	123	96.443.7030.1	120	96.452.4030.6	140
96.233.8036.7	95	96.442.8000.1	118	96.443.7033.1	120	96.452.4033.1	140
96.233.8050.1	94	96.442.8003.1	118	96.443.7034.1	121	96.452.4033.6	140
96.233.8053.1	94	96.442.8004.1	119	96.443.7082.4	124	96.452.4034.1	141

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96.452.4050.1	140	96.453.1004.1	143	96.453.4034.1	147	96.453.7083.1	144
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96.452.5003.6	140	96.453.1034.1	143	96.453.4080.1	144	96.453.8004.1	143
96.452.5004.1	141	96.453.1034.1	147	96.453.4083.1	144	96.453.8004.6	143
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96.452.6004.1	141	96.453.2030.1	142	96.453.5034.6	147	96.454.1000.1	146
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96.452.7000.1	140	96.453.2080.1	144	96.453.6004.1	143	96.454.2000.6	146
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96.452.7003.6	140	96.453.3000.1	142	96.453.6031.6	142	96.454.2004.1	147
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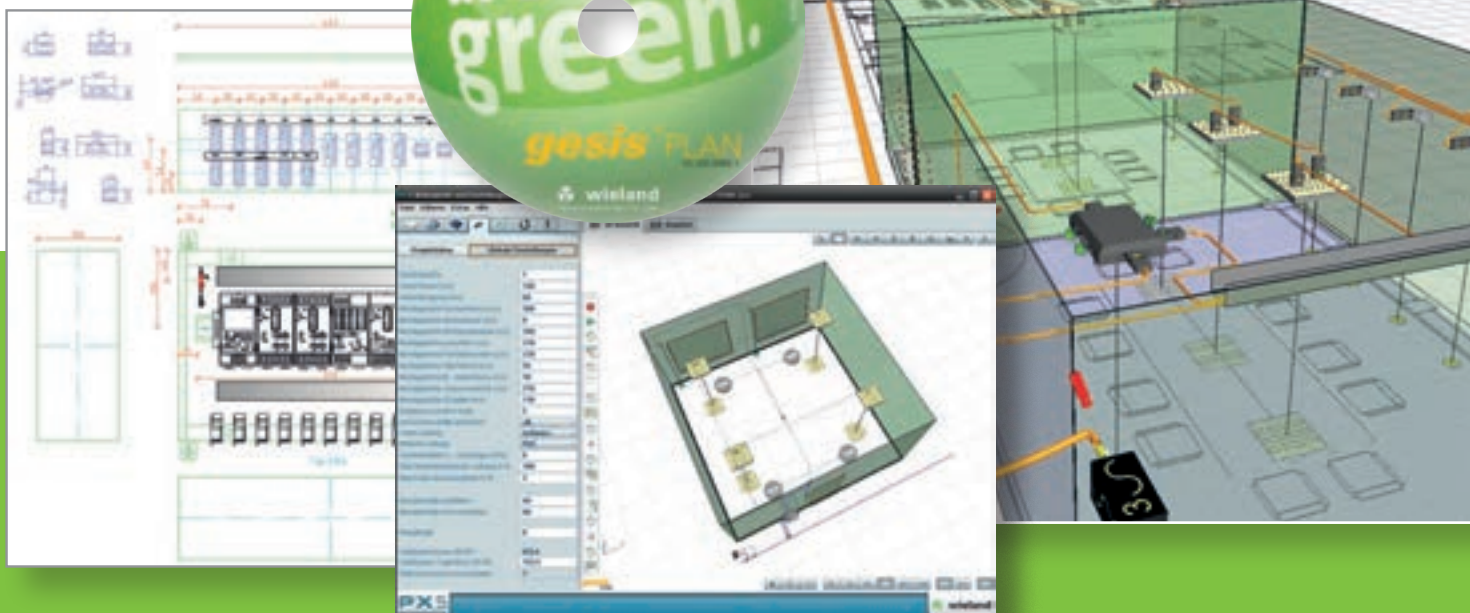
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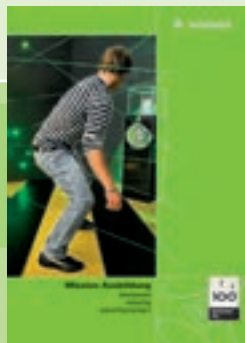
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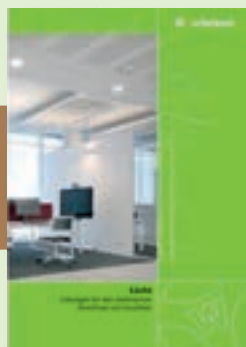


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USA
Wieland Electric Inc.
North American Headquarters
 2889 Brighton Road
 Oakville, Ontario L6H 6C9
 Phone +1 905 8298414
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CANADA
Wieland Electric Inc.
North American Headquarters
 2889 Brighton Road
 Oakville, Ontario L6H 6C9
 Phone +1 905 8298414
 Fax +1 905 8298413
www.wieland-electric.ca



GREAT BRITAIN
Wieland Electric Ltd.
 Riverside Business Center,
 Walnut Tree Close
 GB-Guildford/Surrey GU1 4UG
 Phone +44 1483 531213
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FRANCE
Wieland Electric SARL.
 Le Cérame, Hall 6
 47, avenue des Genottes
 CS 48313
 95803 Cergy-Pontoise Cedex
 Phone +33 1 30320707
 Fax +33 1 30320714
info.france@wieland-electric.com
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SPAIN
Wieland Electric S.L.
 C/ Maria Auxiliadora 2, bajos
 E-08017 Barcelona
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 I-20019 Settimo Milanese
 Phone +39 02 48916357
 Fax +39 02 48920685
info.italy@wieland-electric.com
www.wieland-electric.it



BELGIUM & GD LUXEMBOURG
ATEM-Wieland Electric NV
 Bedrijvenpark De Veert 4
 B-2830 Willebroek
 Phone +32 3 8661800
 Fax +32 3 8661828
info.belgium@wieland-electric.com
www.wieland-electric.be



DENMARK
Wieland Electric A/S
 Vallørækken 26
 DK-4600 Køge
 Phone +45 70 266635
 Fax +45 70 266637
sales.denmark@wieland-electric.com
www.wieland-electric.dk



SWITZERLAND
Wieland Electric AG
 Harzachstrasse 2b
 CH-8404 Winterthur
 Phone +41 52 2352100
 Fax +41 52 2352119
info.swiss@wieland-electric.com
www.wieland-electric.ch



POLAND
Wieland Electric Sp. Zo.o.
 Św. Antoniego 8
 62-080 Swadzim
 Phone +48 61 2225400
 Fax +48 61 8407166
office@wieland-electric.pl
www.wieland-electric.pl



CHINA
Wieland Electric Trading
 Unit 2703 International Soho City
 889 Renmin Road,
 Huang Pu District
 PRC- Shanghai 200010
 Phone +86 21 63555833
 Fax +86 21 63550090
info-shanghai@wieland-electric.com
www.wieland-electric.cn



JAPAN
Wieland Electric Co, Ltd.
 Nisso No. 16 Bldg. 7F
 3-8-8 Shin-Yokohama,
 Kohoku-ku
 Yokohama 222-0033
 Phone +81 45 473 5085
 Fax +81 45 470 5408
info.japan@wieland-electric.com



GERMANY
Headquarters
Wieland Electric GmbH
 Brennerstraße 10 – 14
 96052 Bamberg, Germany
 Phone +49 951 9324-0
 Fax +49 951 9324-198
info@wieland-electric.com
www.wieland-electric.de

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Headquarters:
Wieland Electric GmbH
Brennerstraße 10 – 14
96052 Bamberg, Germany

Phone +49 951 9324-0
Fax +49 951 9324-198
info@wieland-electric.com
www.wieland-electric.com

Industrial technology

Solutions for the control cabinet

- DIN rail terminal blocks
 - Screw, tension spring or push-in connection technology
 - Wire cross sections up to 300 mm²
 - Numerous special functions
 - Software solutions interfacing to CAE systems
- Safety
 - Safe signal acquisition
 - Safety switching devices
 - Modular safety modules
 - Compact safety controllers
 - Application consulting and training
- Network engineering and fieldbus systems
 - Remote maintenance via VPN industrial router and VPN service portal
 - Industrial Ethernet switches
 - PLC and I/O systems, standard and increased environmental conditions
- Interface
 - Power supply units
 - Overvoltage protection
 - Coupling relays, semiconductor switches
 - Timer relays, measuring and monitoring relays
 - Analog coupling and converter modules
 - Passive interfaces

Solutions for field applications

- Decentralized installation and automation technology
 - Electrical installation for wind tower
 - Fieldbus interfaces and motor starters
- Connectors for industrial applications
 - Rectangular and round connectors
 - Aluminium or plastic housings
 - Degree of protection up to IP 69K
 - Current-carrying capacity up to 100 A
 - Connectors for hazardous areas
 - Modular, application-specific technology

PC board terminals and connectors

- Screw or spring clamp connection technology
- Spacings: 3.5 mm to 10.16 mm
- Reflow or wave soldering process

Building and installation technology

- Building installation systems
 - Main power supply connectors IP 20/IP 65 ... IP 69K
 - Bus connectors
 - Low-voltage connectors
 - Power distribution system with flat cables
 - Distribution systems
 - Room automation with KNX, EnOcean, SMI and DALI
 - DIN rail terminal blocks for electrical installations
 - Overvoltage protection