

Rosenberger Number Code

Rosenberger Number Code – Connectors Standard

19	S	1	01-	4	0M	L5
						Plating Code
						01-29 Cable Group
						00 Blank
						0M Surface Mount Device
						0P Press-fit-Version
						0 Clamp Version, Accessories
						1 Crimp Version
						2 Solder Version, Solder Pot
						3 Solder Crimp Version
						4 PCB Mounting
						5 Solid Center Contact, Coax Transition
						6 Stripline
						7 Microstrip
						8 Crimp Version – Pigtail
						K Adaptors female (2nd end)
						S Adaptors male (2nd end)
						Successive Number
						1 Straight Connector
						2 Right Angle Connector
						3 T-or Y-Adapter
						4 Panel Connector with 4-hole Flange
						5 Panel Connector with Round Flange
						6 Panel Connector with Hexagonal Flange
						7 Panel Connector with 2-hole Flange
						K Female Connector, Jack
						S Male Connector, Plug
						P Sexless
						W Tool
						Z Accessories
Rosenberger Connector Series Code						

Rosenberger Connector Series Code

Precision Connector Series

Code			
01	RPC-1.00	(W)	- 110GHz
02	RPC-2.92	(K)	- 40GHz
03	RPC-3.50		- 26.5GHz
04	RPC-SL 26.5		- 26.5GHz
05	RPC-N 50Ω		- 18GHz
06	RPC-TNC		- 18GHz
07	RPC-7		- 18GHz
08	RPC-1.85	(V)	- 70GHz
09	RPC-2.40		- 50GHz
10	RPC-SP	(BMA)	- 22GHz
P4	RPC-SL 40		- 40GHz
P5	RPC-N 75Ω		- 4GHz

Classical Coaxial Connector Series

Code	
11	Tools
15	Micro-RF
16	FMC
17	Longwipe-SMP
18	Mini-SMP
19	SMP
20	MMCX
23	Inserts Mini-Coax
24	Mini-UHF
25	Inserts High Voltage DIN 41626
26	FME
27	IEC Antenna 75 Ω
28	QMA
29	MCX
30	SSMA
31	Microdot
32	SMA
32R	SMA reverse
34	1.0-2.3 DIN 47297 50Ω
35	SSMB
38	SSMC
39	SMC
40	MCX 75 Ω
41	MHV (High Voltage BNC)
42	HV 4-10 (High Voltage C)
43	HN (High Voltage N)
45	Inserts 1.0-2.3 DIN 41626 50Ω
47	SSMG
49	SMG
50	Inserts High Power DIN 41626 / D-Sub
51	BNC 50Ω

Code	
51R	BNC reverse
52	C 50Ω
53	N 50Ω
53Q	SnapN
54	UHF
55	Inserts D-Sub
56	TNC 50Ω
56R	TNC Reverse
57	SHV (Safe High Voltage)
59	SMB 50 Ω, FAKRA
60	7-16
64	4.3-10
65	4.1-9.5
71	BNC 75Ω
72	C 75Ω
73	N 75Ω
74	F
75	Inserts 1.0-2.3 DIN 41626 75Ω (intermateable with 50Ω)
76	TNC 75Ω
78	1.6-5.6 II Generation
81	Twinax
88	1.6-5.6 III Generation
99	Specials
119	P-SMP
153Q	QN
734	1.0-2.3 DIN 47297 75 Ω
745	Inserts 0.8-2.7 DIN 41626 75 Ω
759	SMB 75 Ω acc. to BT 43
D4	RosenbergerHSD®
E4	RosenbergerHSD®e

Rosenberger Plating Code – Standard¹⁾

Outer Contact

Code	Plating	Symbol	Layer thickness	Magnetic Properties
A	Nickel	Ni	3.00 µm	
B	Silver	Ag	3.00 µm	Non magnetic
E	Gold	Au	0.80 µm	
F	Gold	Au	0.10 µm	
H	Gold selective	Au	1.27 µm	
L	AuroDur ^{® 3)}	Au	0.15 µm	Non magnetic
N	White bronze ²⁾			Non magnetic
S	Stainless Steel			
T	Tin/Lead	Sn	6.00- 8.00 µm	Non magnetic

Center Contact

Code	Plating	Symbol	Layer thickness	Magnetic Properties
1	Silver	Ag	3.00 µm	Non magnetic
3	Gold	Au	1.27 µm	
4	Gold	Au	0.80 µm	
5	AuroDur ^{® 3)}	Au	0.15 µm	Non magnetic

¹⁾ Plating Code

The used platings of outer and center contacts of Rosenberger connectors are defined by the last two digits of each Rosenberger number.

Example: 19 S 101-40M L5

- ▶ Plating code outer contact "L": AuroDur[®] Au 0.15 µm
- ▶ Plating code center contact "5": AuroDur[®] Au 0.15 µm

²⁾ White bronze

White bronze (e.g. Optalloy[®]) or Flash white bronze over silver (e.g. Optargen[®])

³⁾ AuroDur[®] – the Rosenberger Standard Plating for Gold Surfaces

AuroDur[®] plating is the standard gold surface for all Rosenberger connector series. AuroDur[®] has been developed by the engineering and metallurgical team at Rosenberger, well-experienced in developing electroplating standard and customized surfaces.

The AuroDur[®] surface consists of a thin gold layer (0.15 µm) on a non-magnetic, chemically deposited layer of nickel (2-3 µm).

AuroDur[®] gold plating fully satisfies the high mechanical and electrical demands of radio frequency connectors. In contrast to conventional platings, essential characteristics are improved.

Properties:

- ▶ high abrasion and corrosion resistance
- ▶ excellent intermodulation
- ▶ low contact resistance
- ▶ very good solderability
- ▶ optimal distribution of layer thickness
- ▶ RoHS conform

Rosenberger Cable Groups – Standard

Cable Group	Impedance	Cable Type
01	50Ω	RG 178, RG 196
02	50Ω	RG 316/U, RG 174 A/U, RG 188, G 022 32
02	75Ω	RG 179, RG 187, L910/22
03	50Ω	RG 316/U-d, K 02252 D, 5YCC6Y 0.54/1.5
03	75Ω	RG 179- d, L 910/19
06	50Ω	RG 58, RG 141
07	50Ω	RG 142, RG 223, RG 400
08	50Ω	RG 142, RG 223, RG 400
09	75Ω	RG 59, G 04233- 2, URM 104, Video 0.6/3.7
10	93Ω	RG 62
11	93Ω	RG 71
12	75Ω	RG 212, RG 222
13	75Ω	Belden 9248, 2YCY 0.80/4.8
14	75Ω	RG 6
15	50Ω	RG 213
16	50Ω	RG 225, RG 393
17	50Ω	RG 214
18	75Ω	RG 11
20	75Ω	RG 216/U
21	50Ω	RG 217
22	50Ω	RG 218
26	75Ω	Video 1.0- 6.6
28	75Ω	BT 2003, G 04233
29	75Ω	G 03233d, 2 S PTT 6012
40	75Ω	RG 180, RG 195, 2YCY 0.4/2.5
41	75Ω	2YCCY 0.4/2.5; 2YC(ms)CY 0.4/2.5
42	75Ω	x2YCY 0.7/4.4
43	75Ω	2YCCY 0.7/4.4
44	75Ω	2YCCY 1.0/6.5
50	75Ω	BT 2001
70	50Ω	UT 47
71	50Ω	UT 85, RG 405/U, RTK- FS 085, RTK- Flex 405
72	50Ω	UT 141, RG 402/U, RTK- FS 141, RTK- Flex 402
73	50Ω	UT 250, RG 401/U, RTK- FS 250

Cable Group	Impedance	Cable Type
C01	50Ω	Flexible Corrugated Cable 1/4"R
C02	50Ω	Super Flexible Corrugated Cable 3/8"S
C03	50Ω	Flexible Corrugated Cable 1/2"R
C05	50Ω	Flexible Corrugated Cable 7/8"R
C06	50Ω	Flexible Corrugated Cable 1 1/4"R
C07	50Ω	Flexible Corrugated Cable 1 5/8"R
C08	50Ω	Super Flexible Corrugated Cable 1/2"S
C09	50Ω	Super Flexible Corrugated Cable 1/4"S
C15	50Ω	Super Flexible Corrugated Cable 7/8"S
D5	100 Ω	Dacar 535, 4 pole
E3	50Ω	RTK 008
H1	50Ω	RTK 013
K9	50Ω	RTK 048, RTK 049
M4	50Ω	RTK 031, RTK 032
N8	50Ω	LMR 200
N9	50Ω	LMR 400, TZC 50032
P7	75Ω	Flex 3
S3	75Ω	R1- T 2.0 LXI 75K
S4	75Ω	ST 212
T6	75Ω	Tella TM 13
T7	75Ω	Flex 5/75
U1	50Ω	RTK 106, RTK 107
U5	50Ω	RTK 092
U7	50Ω	RTK 161, RTK 161- P, RTK 162, RTK 162- P
U8	50Ω	RTK 125
V2	75Ω	735 A, 02Y(St)CY 0.45/2.0
V4	75Ω	02XSC(ms)C6Y0.45/2.0; 02Y12Y(ms)C6X0.45/2.0
V6	75Ω	BT 3002, TZC 75024, TZC 75025
W7	50Ω	UT 70, UT 70 LL, AA 50070
W9	50Ω	UT 118
X1	50Ω	RG 178 B/U-d
Y4	50Ω	RTK 043, HF50 1.4/3.7 C
Y8	50Ω	RTK 057, TZC 50025

The overview contains our standard cable types and cable groups.
Please note that Rosenberger offers connectors for other cable types.

Rosenberger Number Code

Rosenberger Number Code – Cable Assemblies Standard

L	XX -	XXX -	XXX
			Length in mm
		Successive Number Includes assembled connectors, please see datasheet	
	01-Z9 Cable Group		
Leitung / Cable Assembly			

Rosenberger Number Code

Rosenberger Number Code – Cable Assemblies Jumper

SLJ	12	S	P -	60	M	64	R -	12ft -	00
									Successive Number
									Length in feet (ft) or meters (m)*
									*metric lengths shorter than 10 meters with one decimal lace, point as delimiter
									Connector Type/Gender Side 2
									M male straight
									H male straight, handscrew (only series 64)
									Q male straight, quick lock (only series 64)
									F female straight
									R male right angle
									X male right angle, handscrew (only series 64)
									Y male right angle, quick lock (only series 64)
									Connector Series Side 2 (higher number)
									53 N
									60 7-16
									64 4.3-10
									65 4.1-9.5
									Connector Type/Gender Side 1
									M male straight
									H male straight, handscrew (only series 64)
									Q male straight, quick lock (only series 64)
									F female straight
									R male right angle
									X male right angle, handscrew (only series 64)
									Y male right angle, quick lock (only series 64)
									Connector Series Side 1 (lower number)
									53 N
									60 7-16
									64 4.3-10
									65 4.1-9.5
									Cable Jacket
									P PE
									F FRNC
									Cable Type
									R flexible, ring corrugation
									S super flexible, spiral corrugation
									Cable Size
									14 1/4"
									38 3/8"
									12 1/2"

Rosenberger Jumper Cable Assemblies


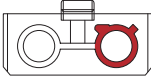




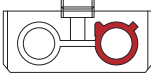




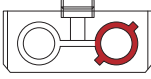




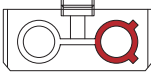




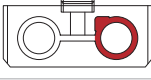




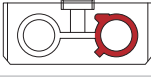











































Jumper Cable Configurator

Configure your individual jumper cable online
(rosenberger.com/isiso/#jumperconf)

FAKRA Number Code

Connector or Housing only							Connector including Housing
59	K	1	30 -	1	M4	A4	-y
							Coding
							A Black
							B White
							C Blue
							D Bordeaux
							E Green
							F Brown
							G Grey
							H Violet
							I Beige
							K Curry
							L Carmin Red
							M Pastel Orange
							N Pastel Green
							Z Waterblue
							-y Blank Coding
							Plating Code
							01-Z9 Cable Group
							00 Blank
							0M Surface Mount Device
							xx Blank Cable Group
							1 Crimp Version
							3 Solder Crimp Version
							4 PCB Mounting
							5 Solid Center Contact
							Successive Number
							1 Straight Connector
							2 Right Angle Connector
							5 Panel Connector with Round Flange
							K Female Connector, Jack
							S Male Connector, Plug
							W Tool
							Z Plastic Housings and Accessories
Connector Series, 59 FAKRA							

FAKRA Coding

Coding		Jack		Plug		Color / RAL-Nr.
		Single	Double	Single	Double	
A	Radio without phantom supply					Black/ 9005 
B	Radio with phantom supply					White/ 9001 
C	GPS: telematics or navigation					Blue/ 5005 
D	GSM Cellular phone					Bordeaux/ 4004 
E	TV1					Green/ 6002 
F	TV2					Brown/ 8011 
G	Remote control keyless entry					Grey/ 7031 
H	GPS: telematics and navigation					Violet/ 4003 
I	Radio controlled parking heating					Beige/ 1001 
K	Radio with IF					Curry/ 1027 
L	Not defined					Camine Red/ 3002 
M	Not defined					Pastel Orange/ 2003 
N	Not defined					Pastel Green/ 6019 
Z	Neutral coding					Waterblue/ 5021 

Some of the Rosenberger-FAKRA connectors are available in the above listed codings.

Colors of the plastic housings are in accordance with the listed RAL colours, minor colour differences during manufacturing are possible.

RosenbergerHSD® Number Codes

D4	K	1	0	A –	1	xx	A5 –	y		
									Coding	Direction
									A Jet Black / Graphite Black	A cable down, left, right
									B Cream White	B cable down, left, right
									C Signal Blue / Light Blue	C cable down, left, right
									D Claret Violet	D cable down, left, right
									E Leaf Green / May Green	E cable down, left, right
									F Nut Brown	F cable down, left, right
									Z Water Blue (Neutral Coding for cable down, left, right)	Z cable down, left, right
									G Blue Grey	G cable up
									H Heather Violet	H cable up
									J Beige	J cable up
									K Curry	K cable up
									L Yellow Green	L cable up
									M Pastel Orange	M cable up
									O Light Green (Neutral Coding for cable up)	O cable up
									y Blank Coding	y
									Plating Code	
									01-Z9 Cable Group	
									00 Blank	
									0M Surface Mount Device	
									xx Blank Cable Group	
									1 Crimp Version	
									4 PCB Mounting	
									Successive Number	
									0 Standard Cable Down	
									U Cable Up	
									L Cable Left	
									R Cable Right	
									1 Straight Connector	
									2 Right Angle Connector	
									K Female Connector, Jack	
									S Male Connector, Plug	
									W Tool	
									Z Plastic Housings and Accessories	
									Connector Series	
									D4 RosenbergerHSD® Connectors	
									E4 RosenbergerHSD®e Connectors	
									99 Special Products Power Pin (RosenbergerHSD®+2, +4, +8)	

RosenbergerHSD® Cable Groups

Cable Group	Impedance	Cable Type
D5	100 Ω	e.g. G&G K6750, X6656, LEONI Dacar® 535, 535-2, 636, 636-2
AF	90 ± 15 Ω	e.g. G&G X6238, LEONI Dacar® 566

RosenbergerHSD®e Cable Group

Cable Group	Impedance	Cable Type
AK	100 Ω	e.g. G&G X7622, LEONI Dacar® 625, unshielded

RosenbergerHSD® Plating Code

Outer Contact

Code	Plating	Symbol	Layer thickness	Magnetic properties
A	Nickel	Ni	3.00 µm	
L	AuroDur®	Au	0.15 µm	non magnetic
X	no plating, no outer contact for unshielded RosenbergerHSD®e			

Center Contact

Code	Plating	Symbol	Layer thickness	Magnetic properties
5	AuroDur®	Au	0.15 µm	non magnetic

The used platings of outer and center contacts of Rosenberger connectors can be identified by each part number.

Example:

D4S20L-40MA5-y

Plating outer contact: Nickel (A)

Plating center contact: AuroDur® (5)

AuroDur® – the Rosenberger Standard Plating for Gold Surfaces

AuroDur® plating is the standard gold surface for all Rosenberger connector series.

AuroDur® has been developed by the engineering and metallurgical team at Rosenberger, well-experienced in developing electroplating standard and customized surfaces.

The AuroDur® surface consists of a thin gold layer on a non magnetic, chemically deposited layer of nickel:
min. 2 µm Ni, 0.15 µm Au

AuroDur® gold plating fully satisfies the high mechanical and electrical demands of radio frequency connectors. In contrast to conventional platings, essential characteristics are improved.

Properties:

- high abrasion and corrosion resistance
- excellent intermodulation
- low contact resistance
- very good solderability
- optimal distribution of layer thickness
- RoHS conform

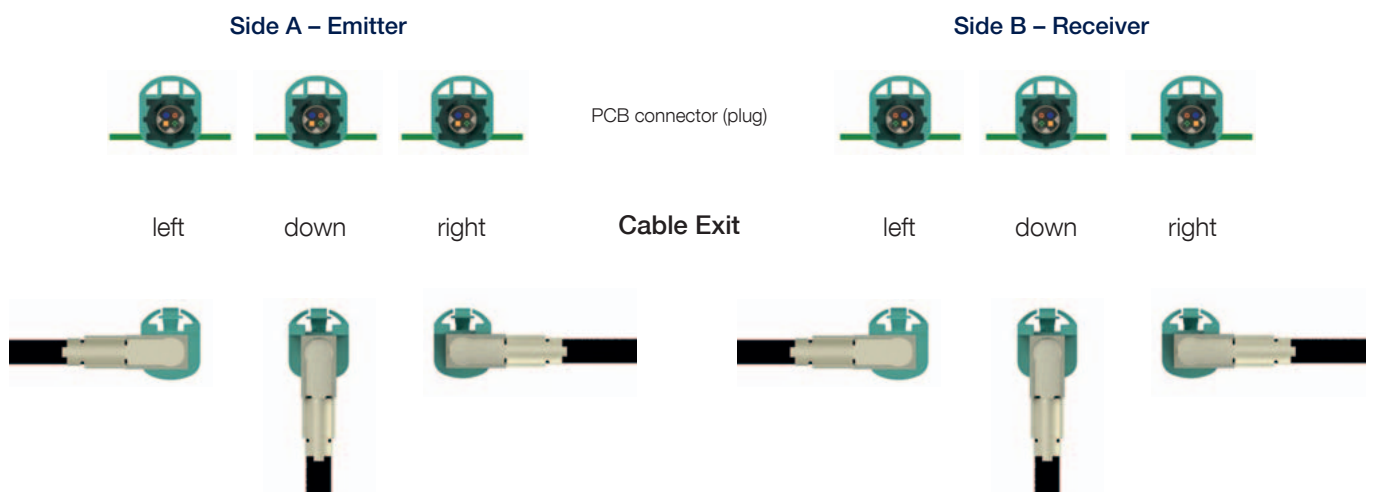
RosenbergerHSD® Codings

Coding RosenbergerHSD®, HSD®e, HSD®+2, HSD®+4, Cable down, left, right

Coding	Jack	Plug	Color / RAL-Nr.
A			Jet Black / 9005
B			Cream White / 9001
C			Signal Blue / 5005
D			Claret Violet / 4004
E			Leaf Green / 6002
F			Nut Brown / 8011
Z			Water Blue / 5021

Colors of the plastic housings are in accordance with the listed RAL colors, minor color differences during manufacturing are possible.

Definition Cable Exit down, left, right



Coding RosenbergerHSD®, HSD®e, HSD®+2, HSD®+4, Cable up

Coding	Jack	Plug	Color / RAL-Nr.
G			Blue Gray / 7031 
H			Heather Violet / 4003 
J			Beige / 1001 
K			Curry / 1027 
L			Yellow Green / 6018 
M			Pastel Orange / 2003 
O			Light Green / 6027 

Colors of the plastic housings are in accordance with the listed RAL colors, minor color differences during manufacturing are possible.

Definition Cable Exit up

Side A – Emitter

Side B – Receiver



up

Cable Exit















up



PCB connector (plug)



Coding RosenbergerHSD® double 8 mm male

Coding	Plug	Color / RAL-Nr.
A		Jet Black / 005 
B		Cream White / 9001 
C		Signal Blue / 5005 
D		Claret Violet / 4004 
E		Leaf Green / 6002 
F		Nut Brown / 8011 
Z		Water Blue / 5021 

Coding RosenbergerHSD® double 8 mm female

Coding	Jack	Color / RAL-Nr.
A		Jet Black / 9005 
B		Cream White / 9001 
C		Signal Blue / 5005 
D		Claret Violet / 4004 
E		Leaf Green / 6002 
F		Nut Brown / 8011 
Z		Water Blue / 5021 

Colors of the plastic housings are in accordance with the listed RAL colors, minor color differences during manufacturing are possible.

Coding RosenbergerHSD® double 12.7 mm male

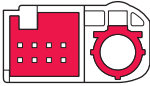

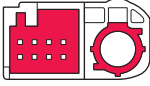

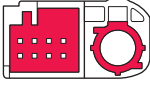

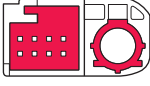

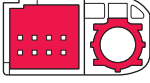

Coding	Plug	Color / RAL-Nr.
A (A+B)		Graphite Black / 9005 
B (B+A)		Cream White / 9001 
C (C+D)		Light Blue / 5012 
D (D+C)		Claret Violet / 4004 
E (E+F)		Mary Green / 6017 
F (F+E)		Nut Brown / 8011 
Z (Z+Z)		Water Blue / 5021 

Coding RosenbergerHSD® double 12.7 mm female

Coding	Jack	Color / RAL-Nr.
A (A+B)		Graphite Black / 9005 
B (B+A)		Cream White / 9001 
C (C+D)		Light Blue/ 5012 
D (D+C)		Claret Violet / 4004 
E (E+F)		Mary Green / 6017 
F (F+E)		Nut Brown / 8011 
Z (Z+Z)		Water Blue / 5021 

Colors of the plastic housings are in accordance with the listed RAL colors, minor color differences during manufacturing are possible.

Coding RosenbergerHSD®+8 male

Coding	Plug	Color / RAL-Nr.
A		Graphite Black / 9011 
B		Cream White / 9001 
C		Light Blue / 5012 
D		Claret Violet / 4004 
Z		Water Blue/ 5021 

Coding RosenbergerHSD®+8 female

Coding	Jack	Color / RAL-Nr.
A		Graphite Black / 9011 
B		Cream White / 9001 
C		Light Blue / 5012 
D		Claret Violet / 4004 
Z		Water Blue / 5021 

Colors of the plastic housings are in accordance with the listed RAL colors, minor color differences during manufacturing are possible.

High Voltage Connectors

Rosenberger Number Code

HV Connectors

H2	K	1	01 -	W	2	A	035	B1	-A
									Coding
									Plating
									Cable size specified in mm ²
									Code cable group
									Number of center contacts
									Backend type
									0 screw version outer and center contact
									1 crimped outer and center contact
									2 mated outer contact - screwed center contact
									5 press-fitted outer contact – crimped center contact
									9 special types
									W crimped outer contact – welded center contact
									Serial number
									Configuration
									1 straight
									2 right angle
									Gender
									K jack
									S plug
Connector Series									
H2 HVR®200									
H4 HPK									
HV HVR®40									
H9 special products									

High Voltage Connectors

Rosenberger Number Code

HVR Fuse

H1	K	1	01-	2	2	S	PC0	B1	-A
									Coding LF-Ampere rating
									A 10 A
									B 15 A
									C 20 A
									D 30 A
									E 40 A
									Plating
									PC PEC (Automotive EV-Fuse)
									LF Little Fuse
									S fuse
									Number of center contacts
									Backend type
									Serial number
									Configuration
									1 straight
									2 right angle
									Gender
									K jack
									S plug
Connector Series									
H1 HV Fuse									









Rosenberger Number Code

HV Device Socket (header)

HVL	1	02-	5	B-	002	B1	-A
							Coding
							Plating
							Serial number
							Cable dimension
							0 no cable
							A 2.5 mm ²
							B 4 mm ²
							C 6 mm ²
							D 16 mm ²
							E 25 mm ²
							F 35 mm ²
							G 50 mm ²
							H 70 mm ²
							J 90 mm ²
							Backend type
							Serial number
							Configuration
							1 straight
							2 right angle
							Series
							HVL HVR [®] 40 header
							H2L HVR [®] 200 header
							H4L HPK header

Coding

HVR[®]40

Coding	Jack	Coding	Plug	Color/ RAL-Nr.
A		A		Black/ 9005
B		B		Black/ 9005
C		C		Black/ 9005
D		D		Black/ 9005

Color specification

Colors of the plastic housings are in accordance with the listed RAL colors, minor color differences during manufacturing may occur.









Cables





- ▶ FHLR2GCB2G 2 x 2,5 mm²; LV 216-2
- ▶ FHLR2GCB2G 2 x 4,0 mm²; LV 216-2
- ▶ FHLR2GCB2G 2 x 6,0 mm²; LV 216-2



Coding

HVR[®]200

Coding	Jack	Color/ RAL-Nr.
A		Black/ 9005 
B		White/ 9010 
C		Blue/ 5012 
Z		Waterblue/ 5021 

Coding	Plug
A	
B	
C	
Z	

Color specification

Colors of the plastic housings are in accordance with the listed RAL colors, minor color differences during manufacturing may occur.

Cables

- ▶ FHLR2GCB2G 16 mm² / 0.21; LV 216-2
- ▶ FHLR2GCB2G 25 mm² / 0.21; LV 216-2
- ▶ FHLR2GCB2G 35 mm² / 0.21; LV 216-2



Coding

HPK

Coding		Coding	Jack	Color/ RAL-Nr.
Z		A		Red/ 3001
Z		B		Black/ 9005
Z		C		Waterblue/ 5021

Color specification

Colors of the plastic housings are in accordance with the listed RAL colors, minor color differences during manufacturing may occur.

Cables

Copper

- ▶ FHLR2GCB2G 16 mm² / 0.21; LV 216-2
- ▶ FHLR2GCB2G 25 mm² / 0.21; LV 216-2
- ▶ FHLR2GCB2G 35 mm² / 0.21; LV 216-2
- ▶ FHLR2GCB2G 50 mm² / 0.21; LV 216-2











Aluminum

- ▶ FHLALR2GCB2G 35 mm²; LV 216-2
- ▶ FHLALR2GCB2G 50 mm²; LV 216-2



Coding

HPK

Coding		Coding	Jack	Color/ RAL-Nr.	
B		B		Black/ 9005	
		A		Red/ 3001	
C		B		Black/ 9005	
		C		Waterblue/ 5021	

Color specification

Colors of the plastic housings are in accordance with the listed RAL colors, minor color differences during manufacturing may occur.

