

Halogen free control cable with screen 300 / 500 V

Description

Approval certificates

Adapted to VDE 250 part 405

Application

In dry and moist rooms for light and medium mechanical stresses. Outdoors only when protected. Not in water. Occasional splashing with oil is admissible. As supply or interconnecting cable for measuring, controlling and regulating, according to DIN VDE 0113 for computer units for control equipments on machine tools, assembly lines. For control equipment on conveyors and production lines for controlling, regulating, and monitoring work processes, industrial plants and production lines when temporarily freely moved and no periodic recurrence without forced guidance. Cross sections above 10 mm² are energy supply cables for fixed instalations on machine tools in production lines. This product is also part of our Windlink® offer dedicated to wind turbines.

Design

- **Conductor**

Copper bare stranded, Class 5 according to DIN VDE 0295:1995-06 or IEC 60228

- **Insulation**

special XLPE compound Type HF according to IEC 60092-351

- **Screen**

Al coated tape, tinned copper braid

- **Outer sheath**

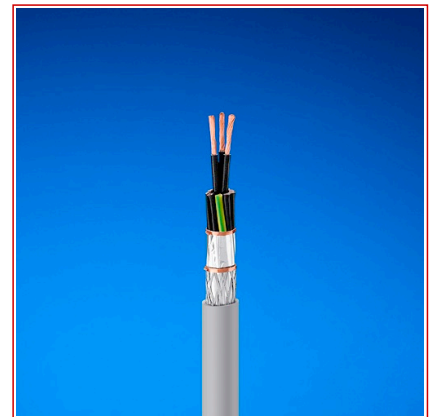
Halogen free compound complying with SHF1 according to IEC 60092-359 and HM4 according to VDE 207 part 24

Core identification

- according to DIN VDE 0293:1990-01
- JZ/OZ: black, white printed numbers 1,2,... and with/or without green/yellow core
- JB: Rheyflex special design; coloured cores according HD 308 S2




Packaging

- on request



Standards

International IEC 60092-353;
IEC 60332-3 Cat.A; IEC 60754-1

							
Halogen free IEC 60754-1	Conductor flexibility Flexible class 5	Rated Voltage U _o /U (Um) 300 / 500 V	Mechanical resistance to impacts Normal industrial	Cable flexibility Semi-flexible	Electro magnetic interference resistance Yes	Ambient dynamic operating temperature, range -5 .. 90 °C	Flame retardant IEC 60332-3 Cat. A
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RHEYFLEX® -XCH-

Characteristics

Construction characteristics	
Halogen free	IEC 60754-1
Screen	Aluminium foil + tinned copper braiding
Sheath colour	Grey
Conductor material	Bare copper
Conductor flexibility	Flexible class 5
Outer sheath	HFFR (Halogene Free Flame Retardant)
Insulation	XLPE (chemical)
Electrical characteristics	
Rated Voltage U ₀ /U (Um)	300 / 500 V
Test voltage	2000 V
Mechanical characteristics	
Mechanical resistance to impacts	Normal industrial use
Cable flexibility	Semi-flexible
Usage characteristics	
Electro magnetic interference resistance	Yes
Ambient dynamic operating temperature, range	-5 .. 90 °C
Flame retardant	IEC 60332-3 Cat. A
Smoke density	IEC 61034
Gases corrosivity	IEC 60754-2
Gases toxicity	No toxicity to IEC 60754-1
Dynamic bending factor	10 (xD)
Ambient static operating temperature, range	-35 .. 90 °C
Ozone resistance	Yes
RoHS compliant	Yes
Silicon free	Yes
Bending factor when installed	D>25mm: 6 (xD); D <25mm: 4 (xD)
Oil resistance	Yes

























Product List



☎=Make to order, 📦=In stock

Nexans ref.	Packaging	Number of cores	Conductor cross-section (mm ²)	Nominal outer diameter (mm)	Approximate net weight (kg/km)	Copper content (kg/km)
📦 78243102	longest length	2	0.75	5.9	56	23
📦 78243103	longest length	3	0.75	6.1	65	40
📦 78243104	longest length	4	0.75	6.6	77	49
📦 78243105	longest length	5	0.75	7.0	91	57
📦 78243107	longest length	7	0.75	7.5	115	74

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RHEYFLEX® -XCH-

Nexans ref.	Packaging	Number of cores	Conductor cross-section (mm ²)	Nominal outer diameter (mm)	Approximate net weight (kg/km)	Copper content (kg/km)
 78243112	longest length	12	0.75	9.5	177	117
 78243118	longest length	18	0.75	10.8	250	211
 78243125	longest length	25	0.75	14.3	279	280
 78243125	longest length	25	0.75	14.3	279	280
 78243202	longest length	2	1	6.1	61	38
 78243203	longest length	3	1	6.3	72	50
 78243204	longest length	4	1	6.8	89	61
 78243205	longest length	5	1	7.3	105	72
 78243207	longest length	7	1	7.9	139	93
 78243212	longest length	12	1	9.9	207	152
 78243218	longest length	18	1	12.6	295	268
 78243302	longest length	2	1.5	6.6	73	54
 78243303	longest length	3	1.5	6.9	88	71
 78243304	longest length	4	1.5	7.5	108	86
 78243305	longest length	5	1.5	8.1	125	98
 78243307	longest length	7	1.5	8.7	160	134
 78243312	longest length	12	1.5	11.0	279	234
 78243318	longest length	18	1.5	14.1	400	373
 78243402	longest length	2	2.5	7.7	104	79
 78243403	longest length	3	2.5	8.1	140	111
 78243404	longest length	4	2.5	8.8	173	137
 78243405	longest length	5	2.5	9.4	206	159
 78243407	longest length	7	2.5	10.2	290	232
 78243503	longest length	3	4	9.5	175	132

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RHEYFLEX® -XCH-

Nexans ref.	Packaging	Number of cores	Conductor cross-section (mm ²)	Nominal outer diameter (mm)	Approximate net weight (kg/km)	Copper content (kg/km)
☎ 78243504	longest length	4	4	10.4	236	173
☎ 78243505	longest length	5	4	11.4	288	213
☎ 78243604	longest length	4	6	11.8	360	305
☎ 78243704	longest length	4	10	14.2	520	431
☎ 78243804	longest length	4	16	17.7	780	686
☎ 0	longest length	3	16	16.7	600	533
☎ 0	longest length	5	16	20.4	980	862
☎ 78243854	longest length	4	25	21.3	1420	1065
☎ 78243904	longest length	4	35	24.4	1750	1430

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Selling information
Marking

- Rheyflex -XCH-JZ 300/500V n G s HFFR IEC 60332-3 Cat. A CE RoHS conform
- Rheyflex -XCH-OZ 300/500V n x s HFFR IEC 60332-3 Cat. A CE RoHS conform
- Rheyflex -XCH-JB 300/500V n G s HFFR IEC 60332-3 Cat. A CE RoHS conform