

Halogen free control cable 300 / 500 V

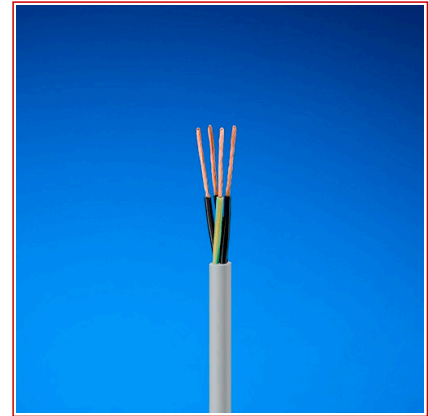
Description

Approval certificates

Adapted to VDE 250 part 405

Application

In dry and moist rooms for light mechanical stresses. Outdoors only when protected. Not in water. Occasional splashing with oil is admissible. As supply or interconnecting cable for control and electronic instruments. For control equipment on conveyors and production lines for controlling, regulating and monitoring work processes in industrial plants and production lines. For flexible use with light mechanical stress, free motion without periodic recurrence and without forced guidance. Cross sections above 16 mm² are energy supply cables for fixed installations on machine tools in production lines. This product is also part of our Windlink® offer dedicated to wind turbines and part of our Airport Infrastructure offer dedicated to Baggage Handling Systems.



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

- **Outer sheath**

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

Standards






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

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

							
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 use	Cable flexibility Flexible	Smoke density IEC 61034	Flame retardant IEC 60332-3 Cat. A	Gases corrosivity IEC 60754-2

RHEYFLEX® -XH-

Characteristics

Construction characteristics	
Halogen free	IEC 60754-1
Conductor flexibility	Flexible class 5
Sheath colour	Grey
Conductor material	Bare copper
Outer sheath	HFFR (Halogene Free Flame Retardant)
Insulation	XLPE (Cross-linked Polyethylene)
Electrical characteristics	
Insulation resistance at 20°C	50.0 MOhm.km
Rated Voltage U _o /U (Um)	300 / 500 V
Test voltage	2000 V
Mechanical characteristics	
Mechanical resistance to impacts	Normal industrial use
Cable flexibility	Flexible
Usage characteristics	
Smoke density	IEC 61034
Flame retardant	IEC 60332-3 Cat. A
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
Ambient dynamic operating temperature, range	-5 .. 90 °C
Ozone resistance	Yes
RoHS compliant	Yes
Silicon free	Yes
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 weight (kg/km)	With Green/ Yellow core
☎ 78293059	longest length	4	0.5	5.6	44	No
☎ 78233005	longest length	5	0.5	6.1	53	Yes
☎ 78293004	longest length	7	0.5	6.6	65	No
☎ 78233010	longest length	10	0.5	8.7	98	Yes
📦 78293061	longest length	3	0.5	5.3	37	No
📦 78233012	longest length	12	0.5	8.7	102	Yes
📦 78233102	longest length	2	0.75	5.3	39	No

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Nexans ref.	Packaging	Number of cores	Conductor cross-section (mm ²)	Nominal outer diameter (mm)	Approximate weight (kg/km)	With Green/Yellow core
 78233103	longest length	3	0.75	5.6	47	Yes
 78233104	longest length	4	0.75	6.1	56	Yes
 78233105	longest length	5	0.75	6.6	67	Yes
 78233107	longest length	7	0.75	7.2	84	Yes
 78233112	longest length	12	0.75	9.4	134	Yes
 78233118	longest length	18	0.75	11.0	189	Yes
 78233125	longest length	25	0.75	13.2	258	Yes
 78233121	longest length	21	0.75	12.5	225	Yes
 78233202	longest length	2	1	5.5	45	No
 78233203	longest length	3	1	5.8	54	Yes
 78233204	longest length	4	1	6.3	66	Yes
 78233205	longest length	5	1	6.9	79	Yes
 78233207	longest length	7	1	7.5	100	Yes
 78233212	longest length	12	1	9.8	162	Yes
 78233218	longest length	18	1	11.7	236	Yes
 78233225	longest length	25	1	14.0	316	Yes
 78293060	longest length	4	1	6.3	66	No
 78233206	longest length	6	1	7.8	97	Yes
 78233302	longest length	2	1.5	6.1	58	No
 78233303	longest length	3	1.5	6.4	71	Yes
 78233304	longest length	4	1.5	7.1	87	Yes
 78233305	longest length	5	1.5	7.7	105	Yes
 78233307	longest length	7	1.5	8.4	134	Yes
 78233312	longest length	12	1.5	11.0	219	Yes
 78233318	longest length	18	1.5	13.0	319	Yes

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Nexans ref.	Packaging	Number of cores	Conductor cross-section (mm ²)	Nominal outer diameter (mm)	Approximate weight (kg/km)	With Green/Yellow core
📦 78233325	longest length	25	1.5	15.8	429	Yes
☎ 78293058	longest length	4	1.5	7.1	87	No
☎ 78233321	longest length	21	1.5	14.6	374	Yes
📦 78233310	longest length	10	1.5	10.8	195	Yes
📦 78233402	longest length	2	2.5	6.7	80	No
📦 78233403	longest length	3	2.5	7.1	101	Yes
📦 78233404	longest length	4	2.5	7.8	125	Yes
📦 78233405	longest length	5	2.5	8.5	152	Yes
📦 78233407	longest length	7	2.5	9.3	197	Yes
📦 78233412	longest length	12	2.5	12.5	332	Yes
📦 78233410	longest length	10	2.5	12.2	296	Yes
📦 78233418	longest length	18	2.5	16.5	540	Yes
📦 78233503	longest length	3	4	8.6	51	Yes
📦 78233504	longest length	4	4	9.5	189	Yes
📦 78233505	longest length	5	4	10.4	230	Yes
📦 78233604	longest length	4	6	11.2	274	Yes
📦 78233605	longest length	5	6	12.5	339	Yes
☎ 78233603	longest length	3	6	10.1	218	Yes
📦 78233607	longest length	7	6	13.8	460	Yes
📦 78233704	longest length	4	10	14.3	457	Yes
📦 78233705	longest length	5	10	15.7	565	Yes
📦 78233804	longest length	4	16	17.2	723	Yes
📦 78233805	longest length	5	16	19.2	915	Yes
📦 78233854	longest length	4	25	21.3	1097	Yes
📦 78233855	longest length	5	25	22.4	1301	Yes

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Nexans ref.	Packaging	Number of cores	Conductor cross-section (mm ²)	Nominal outer diameter (mm)	Approximate weight (kg/km)	With Green/Yellow core
📦 78233904	longest length	4	35	23.9	1525	Yes
📦 78233905	longest length	5	35	26.4	1867	Yes
📦 78233951	longest length	4	50	28.4	2112	Yes
☎ 78293005	longest length	5	50	31.5	2633	Yes
📦 78233953	longest length	4	95	37.8	3841	Yes
☎ 78293003	longest length	5	120	47.1	6207	Yes
📦 78233955	longest length	4	150	47.4	6222	Yes

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Selling information
Marking

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