

Contact

Cables for Industrial Applications
 Phone: 01908 250840
 iandi.sales@nexans.com

RHEYFLEX® 500 Y

PVC Control Cable 300/500 V

Description

Approval Certificates

VDE Reg N° 8787

Application

In dry and moist rooms for light mechanical stresses. Outdoors only when protected. Not in water. Not for torsionable applications. As supply and interconnecting cable for measuring, controlling and regulating acc. to DIN VDE 0113. For computer units, control equipments on machine tools assembly lines, 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 cable for fixed installations on machine tools in production lines. This product is also part of our Windlink® offer dedicated to wind turbines.



Design

- Conductor: Copper bare stranded, VDE 0295 Class 5
- Insulation :PVC Type Y1 2 (Polyvinyl chloride)
- Outer sheath :PVC Type YM 2 (Polyvinyl chloride), colour grey,
- Core identification:according to DIN VDE 0293:1990-01

JZ/OZ: black, white printed numbers and with/or without green/yellow core
 JB: coloured cores according to HD 308 S2









Standards

International
 Manufacturer specification

Packaging

- on request

Cables for special applications on request

							
Lead free Yes	Conductor flexibility Flexible class 5	Rated Voltage Uo/U (Um) 300 / 500 V	Cable flexibility Flexible	Mechanical resistance to impacts Normal industrial	Chemical resistance Occasional contact yes	Flame retardant IEC 332-1	Ambient dynamic operating temperature, range -15 .. 70 °C

Version 02 Generated 05/04/17 - <http://www.nexans.co.uk>

Page 1 / 4

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

RHEYFLEX® 500 Y

Characteristics

Construction characteristics	
Conductor material	Bare copper
Core identification	Black cores with white numbers
Insulation	PVC compound type YI 2
Outer sheath	PVC compound type YM 2
Lead free	Yes
Sheath colour	Grey
Conductor flexibility	Flexible class 5
Electrical characteristics	
Test voltage	2 kV
Rated Voltage U _o /U (U _m)	300 / 500 V
Mechanical characteristics	
Cable flexibility	Flexible
Mechanical resistance to impacts	Normal industrial use
Usage characteristics	
Ozone resistance	Yes
Chemical resistance	Occasional contact yes
Flame retardant	IEC 332-1
Ambient dynamic operating temperature, range	-15 .. 70 °C
Ambient static operating temperature, range	-40 .. 70 °C
Dynamic bending factor	8 (xD)
RoHS compliant	Yes
Silicon free	Yes
Field of application	Indoor
Bending factor when installed	6 (xD)

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)	With Green/Yellow core	Copper content (kg/km)
📦 2X0.5YY	longest length	2	0.5	4.7	30	No	9.6
📦 7X0.5YY	longest length	7	0.5	6.4	65	Yes	34
📦 12X0.5YY	longest length	12	0.5	8.5	100	Yes	58
📦 18X0.5YY	longest length	18	0.5	10.0	145	Yes	86
📦 25X0.5YY	longest length	25	0.5	11.7	192	Yes	120
📦 2X0.75YY	longest length	2	0.75	5.0	37	No	14.4
📦 3X0.75YY	longest length	3	0.75	5.3	44	Yes	21.6
















☎ = Make to order, 📦 = In stock



RHEYFLEX® 500 Y

Nexans ref.	Packaging	Number of cores	Conductor cross-section (mm ²)	Nominal outer diameter (mm)	Approximate net weight (kg/km)	With Green/Yellow core	Copper content (kg/km)
4X0.75YY	longest length	4	0.75	5.8	54	Yes	29
5X0.75YY	longest length	5	0.75	6.3	65	Yes	36
7X.075YY	longest length	7	0.75	6.9	84	Yes	50
8X0.75YY	longest length	8	0.75	7.7	97	Yes	57
10X0.75YY	longest length	10	0.75	9.0	114	Yes	72
12X0.75YY	longest length	12	0.75	9.3	130	Yes	86
18X0.75YY	longest length	18	0.75	10.9	188	Yes	130
25X0.75YY	longest length	25	0.75	12.8	252	Yes	180
2X1YY	longest length	2	1	5.3	43	No	19.2
3X1YY	longest length	3	1	5.7	53	Yes	29
4X1YY	longest length	4	1	6.2	65	Yes	38
5X1YY	longest length	5	1	6.8	79	Yes	48
7X1YY	longest length	7	1	7.6	105	Yes	67
8X1YY	longest length	8	1	8.3	118	Yes	77
10X1YY	longest length	10	1	9.6	140	Yes	96
12X1YY	longest length	12	1	9.9	159	Yes	115
25X1YY	longest length	25	1	14.1	323	Yes	240
2X1.5YY	longest length	2	1.5	5.9	56	No	29
3X1.5YY	longest length	3	1.5	6.3	69	Yes	43
4X1.5YY	longest length	4	1.5	6.9	86	Yes	58
5X1.5YY	longest length	5	1.5	7.8	107	Yes	72
8X1.5YY	longest length	8	1.5	9.2	157	Yes	115
10X1.5YY	longest length	10	1.5	10.8	188	Yes	144
12X1.5YY	longest length	12	1.5	11.2	212	Yes	173

☎ = Make to order, 📦 = In stock

RHEYFLEX® 500 Y

Nexans ref.	Packaging	Number of cores	Conductor cross-section (mm ²)	Nominal outer diameter (mm)	Approximate net weight (kg/km)	With Green/Yellow core	Copper content (kg/km)
 18X1.5YY	longest length	18	1.5	13.1	311	Yes	259
 25X1.5YY	longest length	25	1.5	15.9	435	Yes	360
 2X2.5YY	longest length	2	2.5	7.1	85	No	48
 3X2.5YY	longest length	3	2.5	7.8	110	Yes	72
 4X2.5YY	longest length	4	2.5	8.5	137	Yes	96
 5X2.5YY	longest length	5	2.5	9.4	167	Yes	120
 7X2.5YY	longest length	7	2.5	10.2	218	Yes	168
 12X2.5YY	longest length	12	2.5	14.0	348	Yes	288
 18X2.5YY	longest length	18	2.5	16.5	509	Yes	432
 3X4YY	longest length	3	4	9.1	161	Yes	115
 4X4YY	longest length	4	4	10.0	202	Yes	154
 5X4YY	longest length	5	4	11.0	246	Yes	192
 3X6YY	longest length	3	6	10.6	231	Yes	173
 4X6YY	longest length	4	6	11.7	291	Yes	230
 5X6YY	longest length	5	6	12.9	359	Yes	288

 = Make to order,  = In stock

Selling information

Marking

- Nexans Rheyflex® 500 Y-JZ- 300/500 n G s VDE Reg. No 8787 CE RoHS conform
- Nexans Rheyflex® 500 Y-OZ- 300/500 n x s VDE Reg. No 8787 CE RoHS conform
- Nexans Rheyflex® 500 Y-JB- 300/500 n G s VDE Reg. No 8787 CE RoHS conform
- Nexans Rheyflex® 500 Y-OB- 300/500 n x s VDE Reg. No 8787 CE RoHS conform