

RHEYFLEX® PN
Control Cables with Strength Member



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450/750 V

Approval/Certificates

adapted to VDE

Applications

Rubber cable with a central strength member used for control, measurement and signalling in the steel, mining and chemical industries.

In addition as cantilevered control cable for cranes (e.g. to remote control on overhead cranes from pushbutton boxes), wind turbines, conveyor- and storage systems.

Design

1. Central strength member

2. Conductor

Copper bare, flexible stranded, class 5 and 6

2. Insulation

EPR (ethylen propylen rubber) rubber compound 3GI3 refer to DIN VDE 0207 part 20

4. Separator

Textile covering over each layer

5. Outer sheath

PCP (polychloropren)

Colour: black

Rubber compound 5GM3 refer to DIN VDE 0207 part 21



Marking

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Core identification

Colour code:

black with printed numbers and green/yellow

Standards

In line with DIN VDE 0250

Options

- With one common shield
- With individually screened cable cores
- Special low temperature resistance compounds
- Further options upon request

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Cable characteristics

Mechanical properties	
Minimum bending radii:	outer diameter d
Flexible operations and forced guidance e.g. festoon systems, e-chain cable carrier systems	5 d
Fixed installation	4 d

Chemical properties
For indoor and outdoor applications. Moisture, UV and ozone resistant.

Electrical and Thermal properties	
Nominal voltage	$U_o/U = 450/750$ kV
Maximum operating voltage in AC systems	$U_o/U = 495/825$ kV
Maximum operating voltage in DC systems	$U_o/U = 619/1238$ kV
AC test voltage	2,500 V
Maximum admissible conductor temperature	
in service	+ 90 °C
in short circuit	+ 250 °C
Maximum admissible surface temperature	
fixed installation	- 40 °C to +80 °C
flexible operation	- 25 °C to +60 °C

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Technical data

Number of cores and nominal cross-section mm ²	Art. No.	Tensile strength of the carrier unit ≥	Approx. outer diameter mm	Approx. weight kg/km
3 x 1 *	7971 1203	900	10	110
7 x 1 *	7971 1207	3,200	14	220
12 x 1 *	7971 1212	3,200	19	430
18 x 1 *	7971 1218	3,200	20	510
24 x 1 *	7971 1224	3,200	23	670
36 x 1 *	7971 1236	3,200	26	900
48 x 1	7971 1248	3,200	30	1,220
54 x 1	7971 1254	1,700	33	1,320
3 x 1.5 *	7971 1303	900	10	120
4 x 1.5 *	7971 1304	580	11	180
5 x 1.5 *	7971 1305	1,500	12	200
7 x 1.5 *	7971 1307	3,200	15	280
9 x 1.5 *	7971 1309	3,200	18	400
12 x 1.5 *	7971 1312	3,200	20	540
18 x 1.5 *	7971 1318	3,200	21	600
24 x 1.5 *	7971 1324	3,200	25	840
4 x 2.5 *	7971 1404	1,400	14	250

* stock types