



Halogen free & UV resistant cables designed for heavy duty devices such as cables reels (also vertical operation), hoisting devices, conveyor facilities, mobile motors, rail motors and agricultural devices.

Suitable for exceptional mechanical stress in dry, humid and wet rooms, outdoors or for permanent use in water (not drinking water) up to 50 m depth.

Construction

stranded bare copper conductors

core insulation based on polyester

cores twisted in layers with central textile element

black polyurethane (PUR) sheathing with textile weave vulcanised between inner and outer sheath

Technical

conductor stranding:	according to class 5 (VDE 0295 / IEC 60228)
bend radius:	6x overall diameter (O/D) minimum
tensile load:	max. 25 N/mm ² without supporting element
driving speed:	in reeling operation up to max. 180 m/min. in vertical operation up to max. 120 m/min.
voltage rating:	600/1000V operating, 2500V test
temperature range:	-40°C to +90°C flexing, -20°C to +90°C fixed
standards:	flame retardant similar to IEC 60332-1 oil resistant according to EN 60811
core identification:	4-5 cores = coloured to VDE 0293 including green/yellow earth 6+ cores = numbered white cores including green/yellow earth (may also be available coloured according to DIN47100 code)

Number of Cores & Conductor Area/s (mm ²)	Cable Overall		Number of Cores & Conductor Area/s (mm ²)	Cable Overall	
	Diameter (mm)	Weight (kg/km)		Diameter (mm)	Weight (kg/km)
6x (2x1) C	21.0 – 23.0	619	18 x 1.5	16.3 – 18.1	475
			24 x 1.5	18.7 – 20.9	610
4 x 1.5	10.0 – 11.2	150	25 x 1.5 + 5x 1.5 (C)	21.0 – 23.4	704
5 x 1.5	10.6 – 11.7	172	30 x 1.5	21.6 – 24.0	741
7 x 1.5	12.0 – 14.0	225	42 x 1.5	25.0 – 28.0	930
12 x 1.5	15.4 – 17.0	370			



Number of Cores & Conductor Area/s (mm ²)	Cable Overall		Number of Cores & Conductor Area/s (mm ²)	Cable Overall	
	Diameter (mm)	Weight (kg/km)		Diameter (mm)	Weight (kg/km)
4 x 2.5	11.1 – 12.2	220	4 x 6.0	14.1 – 16.0	375
5 x 2.5	11.8 – 13.0	230	5 x 6.0	16.4 – 17.6	490
7 x 2.5	13.3 – 14.7	340			
12 x 2.5	18x5 – 20.5	590	4 x 10.0	17.4 – 18.6	610
18 x 2.5	18.5 – 20.5	735	5 x 10.0	18.7 – 20.0	735
19 x 2.5 + 5 x 1.5 (C)	21.2 – 23.8	865			
24 x 2.5	21.5 – 23.0	925	4 x 16.0	20.0 – 21.4	860
30 x 2.5	24.4 - 28.2	1100	4 x 16.0 + 2 x (4 x 1.5)C	24.0 – 26.3	1175
36 x 2.5	27.0 – 30.0	1403	5 x 16.0	21.7 - 23.7	1050
8 x 6 x2.5	42.2 – 45.2	2593			
			4 x 25.0	23.5 – 25.0	1250
4 x 4.0	12.3 – 13.5	290			
5 x 4.0	13.3 – 14.5	340	4 x 35.0	28.5 – 30.2	1785
14 x 4.0	22.7 – 25.3	919			

PUR Properties: Tough material with excellent abrasion and tear resistance. Good resistance to water and mineral oils. Poor resistance to acids, alkalis and organic solvents.

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