



These single and multicore cables are designed for fixed power and control use in industrial applications.

The concentric wire screen provides protection against electronic interference, but can be used as mechanical protection.

Suitable for installation indoors, outdoors, in ducts, in water or underground.

Construction

solid or stranded plain copper conductors
polyvinylchloride (PVC) core insulation
cores twisted concentrically (multicores)
stranded copper wire screen with one or two counter tapes
black PVC outer sheath

Technical

conductor stranding: according to VDE 0295 class 1 or 2
1.5mm² to 16.0mm² = usually solid round (RE)
25.0mm² and above = usually stranded sectorial (SM)

bend radius: single core = 15 x O/D (overall diameter),
multicore = 12 x O/D

voltage rating: 600/1000V operating, 4000V test

current rating: see NYY & NYCY chart

temperature range: -5°C to +50°C flexible, -30°C to +70°C static

standards: construction generally according to VDE 0271/0276
flame retardant according to IEC 60332

core identification: 1-2 cores = coloured to VDE 0293 without earth
3-5 cores = coloured to VDE 0293 including earth
6+ cores = numbered black cores inc. green/yellow earth

SINGLE CORE CABLES		
Conductor Area (mm ²)	Cable Overall	
	Diameter (mm)	Weight (kg/km)
10.0	11.4	280
16.0	12.4	440

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MULTICORE CABLES							
Conductors		Cable Overall		Conductors		Cable Overall	
Number of	Area (mm ²)	Diameter (mm)	Weight (kg/km)	Number of	Area (mm ²)	Diameter (mm)	Weight (kg/km)
2	1.5	13.0	205	19	2.5	23.9	950
3	1.5	13.6	225	21	2.5	26.0	1100
4	1.5	14.4	260	24	2.5	28.4	1300
5	1.5	15.0	330	30	2.5	30.7	1610
7	1.5	16.1	350	40	2.5	34.9	2100
8	1.5	17.0	400	52	2.5	38.0	2510
10	1.5	19.2	440	61	2.5	40.1	2850
12	1.5	20.1	500				
14	1.5	20.6	540	2	4.0	15.6	360
16	1.5	21.9	600	3	4.0	16.4	400
19	1.5	23.3	690	4	4.0	17.3	470
21	1.5	24.0	810	5	4.0	19.2	560
24	1.5	26.1	860	7	4.0	21.0	670
30	1.5	27.2	1230				
40	1.5	29.8	1590	2	6.0	16.9	435
52	1.5	32.3	1820	3	6.0	17.3	510
61	1.5	33.0	2010	4	6.0	18.5	590
				5	6.0	21.2	710
2	2.5	13.4	270	7	6.0	23.8	790
3	2.5	14.7	290				
4	2.5	15.6	350	2	10.0	19.5	590
5	2.5	16.1	400	3	10.0	20.2	840
7	2.5	17.5	450	4	10.0	21.3	900
8	2.5	18.0	510	5	10.0	23.0	1000
10	2.5	20.3	600				
12	2.5	21.0	660	2	16.0	20.6	820
14	2.5	22.2	780	3	16.0	22.4	1080
16	2.5	23.0	910	4	16.0	23.3	1250

Polyvinylchloride (PVC) Properties: These compounds are self-extinguishing with fair abrasive resistance, good resistance to water, aqueous salt solutions, acids and alkalis, moderate/poor resistance against organic solvents and oils. Oil resistant versions are commonly available.

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