



These cables are designed for flexible power supply in extreme environments. Commonly used with generators, portable or handling equipment, etc.

Suitable for use indoors or outdoors including in wet and oily environments.

A permanently submersible heat resistant version (90°C) is also available, see Extreme H07RN-F.

Construction

fine stranded plain or tinned copper conductors
ethylene-propylene rubber (EPR) core insulation
black polychloroprene (PCP neoprene) rubber outer sheath.

Technical

conductor stranding:	according to class 5 (VDE 0295 / IEC 60228 / BS EN 60228:2005)
bend radius:	6 x overall diameter (O/D) fixed, 15 x O/D flexing
voltage rating:	450/750V operating, 2500V test
current rating:	see Flexible Rubber 60°C chart
temperature range:	-25°C to +60°C operating (some makes 80°C maximum) should not be installed below 0°C
standards:	construction generally to VDE 0298-300, VDE 0282-4, BS6500, BS7919 flame retardant according to EN 60332-1 oil resistant according to EN 60811-2-1
core identification:	2 cores = coloured to VDE 0293 without earth 3-5 cores = coloured to VDE 0293 including green/yellow earth 6+ cores = numbered black cores including green/yellow earth

SINGLE CORE CABLES

Conductor Area (mm ²)	Cable Overall		Conductor Area (mm ²)	Cable Overall	
	Diameter (mm)	Weight (kg/km)		Diameter (mm)	Weight (kg/km)
1.5	7.0	59	35.0	16.8	540
2.5	8.0	80	50.0	20.0	719
4.0	8.5	115	70.0	22.5	947
6.0	9.5	142	95.0	25.0	1230
10.0	11.4	220	120.0	27.5	1520
16.0	12.8	278	150.0	30.5	1887
25.0	15.0	396	185.0	33.5	2294



SINGLE CORE CABLES					
Conductor Area (mm ²)	Cable Overall		Conductor Area (mm ²)	Cable Overall	
	Diameter (mm)	Weight (kg/km)		Diameter (mm)	Weight (kg/km)
240.0	37.0	2955	500.0	51.0	5551
300.0	40.5	3585	630.0	55.5	7650
400.0	55.5	4800			

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	1.0	8.5	91	12	2.5	23.9	750
3	1.0	9.2	125	19	2.5	29.5	1100
4	1.0	10.6	146	24	2.5	32.1	1383
5	1.0	12.0	192	27	2.5	35.0	1590
				37	2.5	38.7	2320
2	1.5	9.5	130	42	2.5	40.6	2430
3	1.5	10.3	140				
4	1.5	11.5	192	2	4.0	14.1	280
5	1.5	12.5	238	3	4.0	15.0	310
7	1.5	16.5	371	4	4.0	16.0	373
8	1.5	17.7	385	5	4.0	17.1	470
12	1.5	20.8	506	7	4.0	21.6	618
19	1.5	25.5	800	8	4.0	23.5	900
24	1.5	27.5	950	12	4.0	26.2	1180
27	1.5	29.2	1090				
37	1.5	31.0	1300	2	6.0	15.6	400
42	1.5	34.8	1660	3	6.0	17.0	495
				4	6.0	18.3	510
2	2.5	11.2	195	5	6.0	20.0	640
3	2.5	12.5	235	7	6.0	25.7	1090
4	2.5	13.6	269				
5	2.5	14.8	330	2	10.0	20.6	527
7	2.5	18.5	520	3	10.0	21.1	810
8	2.5	20.3	560	4	10.0	23.6	940



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)
5	10.0	26.3	1120	3	70.0	45.6	3386
7	10.0	31.6	1710	4	70.0	48.3	4318
				5	70.0	49.0	4983
2	16.0	23.3	703				
3	16.0	24.4	1020	3	95.0	50.0	4166
4	16.0	27.6	1250	4	95.0	51.0	5703
5	16.0	30.3	1564	5	95.0	58.0	6600
7	16.0	35.7	2330				
2	25.0	27.4	1300	3	120.0	53.9	6600
3	25.0	29.3	1450	4	120.0	60.1	6790
4	25.0	32.5	1850	5	120.0	61.0	8051
5	25.0	36.1	2272				
7	25.0	43.2	3560	3	150.0	59.9	8000
3	35.0	34.2	1893	4	150.0	70.0	8301
4	35.0	36.8	2380	5	150.0	73.0	10500
5	35.0	41.8	2692				
3	50.0	38.5	2600	3	185.0	65.9	9700
4	50.0	42.8	3256	4	185.0	76.8	10062
5	50.0	46.4	3950				
				3	240.0	74.7	12400
				4	240.0	85.2	13125
				3	300.0	83.2	15300
				4	300.0	92.8	19600

PCP Rubber (Polychloroprene) Properties: this self-extinguishing compound, also known as or Neoprene has excellent resistance to oxygen, UV, ozone & water and very good resistance to acids, alkalis & solvents. It has good abrasion resistance but has poor fuel resistance, poor tear resistance and low gas permeability.

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