



These cables are designed for flexible power supply in extreme environments. Commonly used with generators, portable or handling equipment, underwater pumps, etc. Suitable for indoor or outdoor use including in oily or refrigerated areas, in ducts and in permanently submersed installations.

Construction

fine stranded annealed plain copper conductors
thermosetting rubber core insulation
black type EM2 thermosetting HOFr sheath
(heat & oil resistant, flame retardant rubber)

Technical	
conductor stranding:	according to class 5 or 6 (VDE 0295 / IEC 60228 / BS EN 60228:2005)
bend radius:	3-4 x overall diameter (O/D) fixed, 6-8 x O/D flexing
voltage rating:	450/750V operating, 2500V test use up to 1000V acceptable in fixed protected assemblies
current rating:	see Extreme H07RN-F 90°C chart
temperature range:	-25°C to +90°C flexing, -40°C to +90°C fixed
water resistance:	exceeds tests for H07RN8-F, suitable for permanent submersion (AD8)
standards:	construction generally to EN 50525-2-21 and IEC 60245 flame retardant according to EN 60332-1-2
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	5.9	48	70.0	19.6	892
2.5	6.5	62	95.0	22.0	1140
4.0	7.5	88	120.0	24.2	1420
6.0	8.3	116	150.0	26.6	1760
10.0	10.1	182	185.0	28.8	2090
16.0	11.4	250	240.0	32.2	2710
25.0	13.4	361	300.0	34.9	3310
35.0	14.7	469	400.0	39.3	4270
50.0	17.5	671	500.0	43.1	5390



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	8.3	92	5	4.0	16.3	431
3	1.0	8.9	111	7	4.0	20.1	618
4	1.0	9.7	134	8	4.0	22.2	767
5	1.0	10.5	162	10	4.0	25.0	864
				12	4.0	25.74	966
2	1.5	8.7	109				
3	1.5	9.7	137	2	6.0	13.7	295
4	1.5	10.7	169	3	6.0	14.8	370
5	1.5	11.6	206	4	6.0	16.7	474
7	1.5	14.8	307	5	6.0	18.4	585
8	1.5	16.3	379				
12	1.5	17.5	456	2	10.0	18.1	522
16	1.5	19.6	605	3	10.0	20.1	668
18	1.5	20.7	646	4	10.0	21.6	822
24	1.5	23.7	830	5	10.0	24.2	1010
2	2.5	10.6	162	2	16.0	21.6	738
3	2.5	11.4	198	3	16.0	22.6	906
4	2.5	12.6	244	4	16.0	24.6	1120
5	2.5	14.0	299	5	16.0	27.1	1380
7	2.5	17.0	434				
8	2.5	18.4	525	2	25.0	25.7	1052
10	2.5	19.6	565	3	25.0	27.4	1360
				4	25.0	30.7	1730
12	2.5	20.4	654	5	25.0	33.3	2052
16	2.5	23.1	880				
18	2.5	24.3	939	3	35.0	29.7	1700
24	2.5	27.7	1207	4	35.0	33.2	2180
				5	35.0	36.6	2677
2	4.0	12.0	220				
3	4.0	13.1	276				
4	4.0	14.4	343				



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)
3	50.0	35.4	2410	3	120.0	48.7	5002
4	50.0	39.2	3060	4	120.0	52.6	6331
5	50.0	42.7	3696	5	120.0	89.7	7883
3	70.0	39.6	3180	4	150.0	60.1	7928
4	70.0	43.4	4040				
5	70.0	48.3	4917				
3	95.0	45.2	4070				
4	95.0	50.5	5300				
5	95.0	55.3	6448				

Type EM2 Rubber Properties: this self-extinguishing compound has excellent resistance to heat, cold, oxygen, UV, ozone & water. It has excellent abrasion resistance and very good resistance to acids, alkalis & solvents.

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