



Thanks to its extraordinary flexibility and mechanical strength this cable is ideal for power transmission in both fixed or flexible installations. Nominal voltage up to 1000V is accepted in fixed protected assemblies.

Designed to power all types of electrical equipment indoors, outdoors and submersible pumps in deep water installations (AD8).

Construction

fine stranded annealed plain copper conductors

thermosetting rubber core insulation

black thermosetting flexible HOFR rubber outer sheath (heat & oil resistant, flame retardant rubber)

Technical

conductor stranding:	according to class 5 (IEC 60228 / 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
	1000V acceptable in fixed protected assemblies
temperature range:	-25°C to +90°C flexing, -40°C to +90°C fixed
environmental performance:	permanent submersion in water according to AD8
	(some brands in drinkable water according to AS/ NZS 4020)
	excellent oil, mineral oil, grease & chemical resistance
standards:	construction generally to EN 50525-2-21 and IEC 60245
	flame retardant according to EN 60332-1 and IEC 60332-1
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

Number of Conductors	Conductor Area (mm²)	Overall Diameter (mm)	Overall Weight (kg/km)	Current Rating (Amps)		Voltage drop (V/A · km)
				Fixed Installation	Mobile Service	
2	1.0	7.7	75	21	10	45.1
3	1.0	8.3	95	21	10	45.1
4	1.0	9.2	120	21	10	45.1
5	1.0	9.9	145	21	10	45.1
1	1.5	5.9	48	28	16	30.7
2	1.5	8.5	100	26	16	30.7
3	1.5	9.3	125	26	16	30.7



Number of Conductors	Conductor Area (mm²)	Overall Diameter (mm)	Overall Weight (kg/km)	Current Rating (Amps)		Voltage drop (V/A · km)
				Fixed Installation	Mobile Service	
4	1.5	10.4	160	26	16	30.7
5	1.5	11.3	185	26	16	30.7
7	1.5	15.0	315	26	16	30.7
8	1.5	15.5	350	26	16	30.7
12	1.5	17.5	445	26	16	30.7
16	1.5	19.6	580	26	16	30.7
18	1.5	20.5	645	26	16	30.7
19	1.5	21.2	680	26	16	30.7
24	1.5	23.4	815	26	16	30.7
27	1.5	24.5	895	26	16	30.7
1	2.5	6.5	60	39	25	18.4
2	2.5	10.1	145	36	25	18.4
3	2.5	11.1	185	36	25	18.4
4	2.5	12.1	225	36	20	18.4
5	2.5	13.5	280	36	20	18.4
7	2.5	17.1	435	36	25	18.4
8	2.5	18.4	510	36	25	18.4
10	2.5	19.2	560	36	25	18.4
12	2.5	20.6	650	36	25	18.4
14	2.5	21.7	745	36	25	18.4
16	2.5	22.5	845	36	25	18.4
18	2.5	23.6	920	36	25	18.4
19	2.5	25.1	1005	36	25	18.4
24	2.5	27.3	1190	36	25	18.4
27	2.5	28.7	1315	36	25	18.4
1	4.0	7.4	86	53	34	11.4
2	4.0	11.8	200	49	34	11.4
3	4.0	12.7	260	49	35	11.4
4	4.0	14.0	320	49	30	11.4
5	4.0	15.6	395	49	30	11.4
7	4.0	20.2	640	49	34	11.4

Number of Conductors	Conductor Area (mm ²)	Overall Diameter (mm)	Overall Weight (kg/km)	Current Rating (Amps)		Voltage drop (V/A · km)
				Fixed Installation	Mobile Service	
8	4.0	21.8	740	49	34	11.4
10	4.0	22.8	830	49	34	11.4
12	4.0	24.4	950	49	34	11.5
1	6.0	8.1	110	68	43	7.63
2	6.0	12.7	250	63	43	7.63
3	6.0	14.3	335	63	44	7.63
4	6.0	15.7	425	63	37	7.63
5	6.0	17.7	530	63	38	7.63
1	10.0	9.9	175	93	60	4.42
2	10.0	17.7	485	86	60	4.42
3	10.0	19.6	630	86	62	4.42
4	10.0	21.4	775	86	52	4.42
5	10.0	23.9	945	86	54	4.42
1	16.0	11.2	240	124	79	2.80
2	16.0	20.2	670	115	79	2.80
3	16.0	21.8	855	115	82	2.80
4	16.0	24.6	1080	115	69	2.80
5	16.0	27.0	1320	115	71	2.80
1	25.0	13.0	345	161	104	1.80
2	25.0	24.5	995	149	105	1.80
3	25.0	26.1	1250	149	109	1.80
4	25.0	29.5	1610	149	92	1.80
5	25.0	32.5	1960	149	94	1.80
1	35.0	14.6	460	200	126	1.28
2	35.0	26.3	1240	185	130	1.28
3	35.0	29.4	1650	185	135	1.28
4	35.0	32.7	2100	185	114	1.28
5	35.0	35.8	2545	185	114	1.28
1	50.0	17.0	671	242	162	0.893
2	50.0	31.9	1765	225	165	0.896
3	50.0	33.7	2235	225	169	0.893
4	50.0	37.7	2865	22	143	0.893
5	50.0	41.9	3535	225	143	0.893

Number of Conductors	Conductor Area (mm ²)	Overall Diameter (mm)	Overall Weight (kg/km)	Current Rating (Amps)		Voltage drop (V/A · km)
				Fixed Installation	Mobile Service	
1	70.0	19.1	892	310	202	0.629
2	70.0	36.0	2335	289	205	0.629
3	70.0	38.3	2970	289	211	0.629
4	70.0	42.3	3795	289	178	0.629
5	70.0	47.2	4680	289	178	0.629
1	95.0	21.4	1140	377	240	0.476
3	95.0	44.0	3930	352	250	0.476
4	95.0	48.4	4995	352	210	0.476
5	95.0	53.5	6090	352	210	0.476
1	120.0	23.3	1420	437	280	0.372
3	120.0	47.5	4815	410	292	0.372
4	120.0	53.0	6110	410	246	0.372
5	120.0	58.0	7455	410	246	0.372
1	150.0	25.8	1760	504	321	0.298
3	150.0	52.0	5900	473	335	0.298
4	150.0	58.0	7565	473	282	0.298
5	150.0	65.1	9300	473	282	0.298
1	185.0	28.1	2090	575	363	0.245
3	185.0	57.7	7165	542	378	0.245
4	185.0	64.0	9180	542	319	0.245
5	185.0	71.4	11240	542	319	0.245
1	240.0	31.3	2710	679	433	0.185
4	240.0	72.0	11940	641	377	0.185

- (1) Fixed Installation - Reference method F for single-core and method E for multicore cables according to IEC60364-5-52 in open air at 30°C ambient temperature. It is supposed a single-phase circuit.
- (2) Mobile Service - One cable in open air at 30°C ambient temperature according to EN 50565. For cables having 4-5 cores, it is supposed a three-phase circuit. For other cables it is supposed a single-phase circuit.
- (3) Voltage drop - At 60°C conductor temperature, $\cos \varphi = 1$ and single-phase circuit.

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