

0.6/1 kV CV (FR-CV optional)*

4 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

1. Conductor : Circular stranded or circular compacted stranded annealed copper
2. Insulation : Cross-linked polyethylene (XLPE)
Colour code : Blue, Brown, Black, Grey
3. Filler : Polypropylene (Non-hygroscopic material)
4. Binding tape : Polyester tape
5. Sheath : Polyvinyl chloride (PVC), Black colour,
(Optional : FR-PVC)*

Reference Standard :

IEC 60502-1

Classification

- Maximum conductor temperature : 90°C
 Maximum circuit voltage : 1,000 V
 AC test voltage : 3,500 V

Application

For general purpose power distribution in dry or wet location,
 installation exposed in conduit or duct or direct burial in ground.

Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Current rating		Cable weight	Standard length
Cross- sectional area	No. of wires	Diameter						in free air at 40°C ambient	direct burial in ground at 30°C		
mm ²	(Min.)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
1.5	7	1.59	0.7	1.8	12.0	12.1	2,550	21	28	170	500
2.5	7	2.01	0.7	1.8	13.0	7.41	2,100	29	37	230	500
4	7	2.55	0.7	1.8	14.5	4.61	1,700	38	49	300	500
6	7	3.12	0.7	1.8	16.0	3.08	1,450	49	61	410	500
10	6	3.72	0.7	1.8	17.5	1.83	1,250	68	82	590	500
16	6	4.69	0.7	1.8	19.5	1.15	1,000	91	105	860	500
25	6	5.90	0.9	1.8	24.0	0.727	1,050	116	135	1,300	500
35	6	6.95	0.9	1.8	26.5	0.524	900	144	165	1,740	500
50	6	8.33	1.0	1.8	30.5	0.387	850	180	200	2,320	500
70	12	9.73	1.1	2.0	35.0	0.268	800	224	245	3,250	500
95	15	11.43	1.1	2.1	39.0	0.193	700	271	295	4,390	500
120	18	12.95	1.2	2.3	44.0	0.153	650	315	335	5,520	400
150	18	14.27	1.4	2.4	48.5	0.124	700	363	380	6,780	400
185	30	15.98	1.6	2.6	54.0	0.0991	700	415	425	8,480	300
240	34	18.47	1.7	2.8	61.0	0.0754	650	490	495	11,040	200
300	34	20.68	1.8	3.0	67.5	0.0601	600	565	560	13,720	150
400	53	23.39	2.0	3.3	76.0	0.0470	600	678	630	17,490	150

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Application

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Conductor cross-sectional area mm ²	AC Resistance of conductor at 90°C Ω/km (Approx.)	Inductance mH/km (Approx.)	Reactance Ω/km (Approx.)	Impedance Ω/km (Approx.)
1.5	15.43	0.356	0.112	15.43
2.5	9.45	0.331	0.1039	9.45
4	5.88	0.311	0.0979	5.88
6	3.93	0.296	0.0929	3.93
10	2.33	0.284	0.0891	2.34
16	1.47	0.271	0.0851	1.47
25	0.927	0.272	0.0854	0.931
35	0.669	0.264	0.0829	0.674
50	0.494	0.260	0.0818	0.501
70	0.343	0.258	0.0810	0.352
95	0.247	0.252	0.0791	0.260
120	0.197	0.250	0.0787	0.212
150	0.160	0.252	0.0793	0.179
185	0.129	0.253	0.0795	0.151
240	0.0996	0.250	0.0786	0.127
300	0.0809	0.248	0.0780	0.112
400	0.0653	0.248	0.0778	0.1016