

Medium-Voltage/Low-Voltage Overhead Cables



0.6/1 kV XLPE Insulated, Aluminium Conductor, Single-Core Aerial Cable

Standards: IEC 60502-1 / IEC 60228

Technical Data

Max. operating temperature : 90 °C

Max. short circuit temperature : 250 °C (max. 5 sec.)

Rated voltage : 0.6 / 1 kV

Application

Preferred replacement for bare conductors in low-voltage overhead distribution networks. Ideal for rural electrification and densely populated areas where underground cabling is uneconomical.

Construction

① Stranded aluminium conductor ② XLPE insulation

DIMENSION AND WEIGHTS						ELECTRICAL PROPERTIES	
Nominal Area	Stranding	Conductor Diameter	Insulation Thickness	Overall Diameter	Net Weight (approx)	DC Conductor Resistance at 20 °C Max	Current Capacity
mm ²	No./dia.	mm	mm	mm	kg/km	Ω/km	A
10	1	3.6	1.0	5.7	45	3.080	75
16	7/1.70	5.1	1.0	7.2	65	1.910	100
25	7/2.14	6.4	1.2	9.0	95	1.200	127
35	7/2.52	7.6	1.2	10.2	125	0.868	155
50	7/3.02	9.1	1.4	12.0	165	0.641	185
70	7/3.57	10.7	1.4	13.7	220	0.443	230
95	7/4.14	12.4	1.6	15.7	285	0.320	278
120	19/2.84	14.2	1.6	17.6	350	0.253	320
150	19/3.18	15.9	1.8	19.7	430	0.206	362
185	19/3.52	17.6	2.0	21.8	520	0.164	416
240	19/4.01	20.1	2.2	24.7	650	0.125	490