

Copper, XLPE Insulated and PVC Sheathed Multiple Cable 0,6/1kV – Maxlink Flex Conductor

Formed by bare electrolytic Copper wires, annealed, stranded class 4 (1,50 to 6,00 mm²) and class 5 (10,00 to 300,00mm²)

Insulation

XLPE 90 °C - Thermoset compound of cross-linked polyethylene, black in color.

Identification

Black numbered cores

Sheath

PVC ST2 - Black thermoplastic polyvinyl chloride compound, flame retardant.

Maximum Operational Temperatures

- 90° in continuous operation
- 130° in overload
- 250° in short circuit

Application

Used in fixed installations for power and lighting in industrial, commercial, and residential buildings, in distribution circuits, terminal circuits, and underground low-voltage power lines. Its higher thermal class (90°C) allows for greater current-carrying capacity than its PVC equivalent (70°C).

Applicable Standards

- ICEA S-95-658: Standard for Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- NEMA WC-70: Standard for Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- ASTM B3: Standard Specification for Hard-Drawn Copper Wire
- ASTM B8: Standard Specification for Concentric-Lay-Stranded Copper Conductors
- ASTM B230: Standard Specification for Aluminum 1350–H19 Wire for Electrical Purposes
- ASTM B231: Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors
- ASTM B232: Standard Specification for Concentric-Lay-Stranded Copper Conductors

Dimensional Datasheet

TWO CONDUCTORS CABLE					
Size (AWG/Kcmil)	Conductor Diameter (inch)	Insulation Thickness (inch)	Insulation Diameter (inch)	Sheath Thickness (inch)	Sheath Diameter (inch)
16	0.058	0.028	0.111	0.039	0.301
14	0.073	0.028	0.126	0.039	0.331
12	0.093	0.028	0.146	0.043	0.378
10	0.117	0.028	0.170	0.043	0.429
9	0.133	0.028	0.186	0.043	0.460
8	0.149	0.028	0.204	0.047	0.505
7	0.167	0.028	0.222	0.047	0.541
6	0.188	0.028	0.243	0.047	0.582
5	0.211	0.028	0.267	0.047	0.631
4	0.236	0.035	0.307	0.051	0.720
3	0.266	0.035	0.337	0.051	0.780
2	0.298	0.035	0.369	0.055	0.853
1	0.334	0.039	0.415	0.059	0.954
1/0	0.377	0.039	0.458	0.059	1.042
2/0	0.421	0.043	0.509	0.063	1.153
3/0	0.473	0.043	0.561	0.067	1.267
4/0	0.532	0.047	0.630	0.071	1.414

THREE CONDUCTORS CABLE					
Size (AWG/Kcmil)	Conductor Diameter (inch)	Insulation Thickness (inch)	Insulation Diameter (inch)	Sheath Thickness (inch)	Sheath Diameter (inch)
16	0.058	0.028	0.115	0.035	0.188
14	0.073	0.028	0.130	0.035	0.205
12	0.093	0.028	0.150	0.035	0.224
16	0.058	0.028	0.111	0.039	0.319
14	0.075	0.028	0.129	0.039	0.356
12	0.093	0.028	0.146	0.043	0.403
10	0.117	0.028	0.170	0.043	0.456
9	0.133	0.028	0.186	0.043	0.490
8	0.149	0.028	0.204	0.047	0.538
7	0.167	0.028	0.222	0.047	0.576
6	0.188	0.028	0.243	0.047	0.623
5	0.211	0.028	0.267	0.047	0.674
4	0.236	0.035	0.307	0.055	0.777
3	0.266	0.035	0.337	0.055	0.844
2	0.298	0.035	0.369	0.055	0.912
1	0.334	0.035	0.407	0.055	0.997
1/0	0.377	0.039	0.458	0.063	1.123
2/0	0.421	0.043	0.509	0.067	1.244
3/0	0.473	0.043	0.561	0.071	1.364
4/0	0.532	0.043	0.622	0.071	1.498
250	0.580	0.047	0.678	0.075	1.627
300	0.634	0.055	0.748	0.083	1.794
350	0.683	0.063	0.815	0.087	1.945

FOUR CONDUCTORS CABLE					
Size (AWG/Kcmil)	Conductor Diameter (inch)	Insulation Thickness (inch)	Insulation Diameter (inch)	Sheath Thickness (inch)	Sheath Diameter (inch)
16	0.058	0.028	0.115	0.035	0.188
14	0.073	0.028	0.130	0.035	0.205
12	0.093	0.028	0.150	0.035	0.224
16	0.058	0.028	0.111	0.039	0.347
14	0.073	0.028	0.126	0.043	0.391
12	0.093	0.028	0.146	0.035	0.424
10	0.117	0.028	0.170	0.047	0.506
9	0.133	0.028	0.186	0.047	0.544
8	0.149	0.028	0.204	0.047	0.589
7	0.167	0.028	0.222	0.047	0.634
6	0.188	0.028	0.243	0.055	0.700
5	0.211	0.028	0.267	0.055	0.757
4	0.236	0.035	0.307	0.055	0.856
3	0.266	0.035	0.337	0.055	0.928
2	0.298	0.035	0.369	0.039	0.973
1	0.334	0.035	0.407	0.039	1.068
1/0	0.377	0.039	0.458	0.039	1.190
2/0	0.421	0.043	0.509	0.063	1.364
3/0	0.473	0.043	0.561	0.039	1.444
4/0	0.532	0.047	0.630	0.063	1.657
250	0.580	0.047	0.678	0.063	1.773