

Aluminum Polyvinyl Insulated and Sheathed Single Cable 0,6/1kV – Maxvinil

Conductor

Cable formed by bare aluminum wires alloy 1350, temper H19, stranding class 2, round compact

Insulation

PVC-A 70 0C - Thermoplastic compound of polyvinyl chloride, in white color, with special characteristics regarding the nonpropagation and self-extinguishing of fire.

Sheath

PVC ST1 - Thermoplastic compound of polyvinyl chloride, with special characteristics regarding the non propagation and self-extinguishing of fire.

Identification

Black, Light Blue, Green.

Note: other colors, on request.

Maximum Operational Temperatures

- 70° in continuous operation
- 100° in overload
- 160° in short circuit

Application

Used in fixed power and light installations in industrial, commercial and residential buildings, in distribution circuits and terminal circuits, and for underground low-voltage power lines.

Applicable Standards

- ICEA S-61-402: Standard for Non-Metallic Sheathed Cables
- 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

SINGLE CONDUCTOR 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
10	0.117	0.028	0.174	0.035	0.249
9	0.133	0.028	0.190	0.035	0.265
8	0.149	0.028	0.208	0.039	0.291
7	0.167	0.028	0.226	0.039	0.309
6	0.188	0.028	0.247	0.039	0.330
5	0.211	0.028	0.270	0.039	0.353
4	0.236	0.035	0.311	0.043	0.404
3	0.266	0.035	0.341	0.043	0.433
2	0.298	0.035	0.372	0.043	0.465
1	0.334	0.035	0.411	0.043	0.504
1/0	0.377	0.039	0.462	0.047	0.562
2/0	0.421	0.043	0.513	0.047	0.616
3/0	0.473	0.043	0.565	0.051	0.676
4/0	0.532	0.047	0.634	0.051	0.744
250	0.580	0.047	0.682	0.051	0.793
300	0.634	0.055	0.752	0.055	0.872
350	0.683	0.063	0.819	0.055	0.939
400	0.733	0.063	0.869	0.055	0.989
450	0.781	0.067	0.925	0.059	1.055
500	0.826	0.067	0.970	0.059	1.100
550	0.858	0.071	1.012	0.063	1.150
600	0.900	0.071	1.053	0.063	1.191