

Firex[®] MC

Aluminum Interlock Armored Power and Control Cable

UL Type MC, 600V, 90°C rated

Multiple conductors, with or without ground wire, aluminum interlocked armor, PVC jacket

Construction

Conductor: bare, annealed copper conforming to ASTM B3 and Class B stranded in accordance with ASTM B8.

Insulation: cross linked polyethylene type XHHW-2 per UL 44.

Assembly: conductors are cabled in concentric layers with or without grounding wire, interstices are filled with suitable non-hygroscopic fillers, as required. A binder tape of synthetic material assembles the core in an essentially round configuration.

Armor: interlocking aluminum tape armor applied directly over the core.

Jacket: overall polyvinyl chloride jacket per UL 1569, 90°C temperature rating; low acid gas emission; limited flame spread and excellent corrosion resistance.

Identification of Conductors

Power and control:

sizes #14 AWG to #10 AWG: Method #1-E2 per ICEA S-73-532
sizes #8 AWG to 500 kcmil: Method #4 per ICEA S-73-532

Bending Radius

Fixed position: 7 x cable overall diameter

During pulling: 12 x cable overall diameter

Specifications

- Meets UL 44, XHHW-2 600V conductors
- Meets UL 1569 requirements for Type MC, Metal Clad cables
- Designated Type MC per NEC Article 330

Product features

- Cables are UL listed as Type MC, 600V
- UL listed insulated conductors
- Cables pass UL 1685 and IEEE 383 vertical tray fire tests at 70,000 BTU/hr, ICEA T-29-520 fire test at 210,000 BTU/hr, IEEE 1202 and CSA FT4
- Cables exhibit a -25°C cold bend rating with suitable precautions
- Temperature rating of 90°C dry and wet
- 130°C emergency rating & 250°C short circuit rating
- Excellent mechanical & physical properties
- Sunlight and oil resistant jacket
- Suitable for direct burial and use in cable tray

Options

Firex[®] MC

Aluminum Armored Power and Control Cable

UL Type MC, 600V, 90°C rated

3 Conductors with Bare Ground

Part Number	Cond. Size	Insulation Thickness		Ground Wire Size	Nominal Diameter over Armor		Jacket Thickness		Nominal Diameter over Jacket		Approximate Net Cable Weight		Ampacity
		AWG/kcmil	mils		mm	AWG	inches	mm	mils	mm	inches	mm	
634725	8(7w)	45	1.14	10(7w)	.750	19.05	50	1.27	.855	21.72	405	603	55
634733	6(7w)	45	1.14	8(7w)	.820	20.83	50	1.27	.925	23.50	545	811	75
634741	4(7w)	45	1.14	8(7w)	.930	23.62	50	1.27	1.040	26.42	730	1086	95
634766	2(7w)	45	1.14	6(7w)	1.075	27.31	50	1.27	1.185	30.10	1085	1615	130
---	1(19w)	55	1.40	6(7w)	1.205	30.61	60	1.52	1.315	33.40	1310	1950	150
634758	1/0(19w)	55	1.40	6(7w)	1.290	32.77	60	1.52	1.400	35.56	1565	2329	170
634774	2/0(19w)	55	1.40	6(7w)	1.385	35.18	60	1.52	1.495	37.97	1865	2775	195
---	3/0(19w)	55	1.40	4(7w)	1.495	37.97	60	1.52	1.605	40.77	2305	3430	225
634782	4/0(19w)	55	1.40	4(7w)	1.615	41.02	60	1.52	1.745	44.32	2800	4167	260
634790	250(37w)	65	1.65	4(7w)	1.795	45.59	60	1.52	1.925	48.90	3345	4978	290
634808	350(37w)	65	1.65	3(7w)	2.015	51.18	60	1.52	2.150	54.61	4555	6779	350
634816	500(37w)	65	1.65	2(7w)	2.300	58.42	75	1.91	2.465	62.61	6205	9234	430
---	750(61w)	80	2.03	1(19w)	2.760	70.10	75	1.91	2.920	74.17	8970	13349	535
---	1000(61w)	80	2.03	1/0(19w)	3.080	78.23	85	2.16	3.265	82.93	11685	17389	615

(1) Ampacities are in accordance with Table 310.16 of NEC for conductors in raceway or direct buried at 30°C ambient temperature and 90°C conductor temperature. For correction factors for different ambient temperatures and ampacities at different conductor temperatures see Table 310.16 of NEC. Ampacities for cables having more than three conductors have been derated per Article 310.15(B)(2)(a) of NEC.