

FIREX® MC 3 Conductor

Aluminum Interlock Armored Power and Control Cable UL Type MC, 600 V, 90°C rated - LEAD FREE - Multiple conductors, with ground wire, aluminum interlocked armor, PVC jacket.

Description

FIREX MC cables are rugged armored cables suitable for installation in a wide range of commercial and industrial applications where excellent mechanical and physical properties are required.

Applications

FIREX MC is suitable and allowed by the NEC for use in the following applications:

- for power, lighting and control circuits and as a branch circuits and power feeders in industrial, commercial, institutional and residential installations up to 600 V.
- fished or embedded in plaster and concrete.
- direct buried or used as an aerial cable when fixed to a messenger support cable.
- used in concealed or exposed applications.
- installed in cable trays and other raceways.
- in Class I and II, Division 2 as well Class III, Division 1 and 2 hazardous locations.
- under raised floors of information technology rooms.
- where exposed to harsh chemicals and vapors

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

FIREX® MC 3 Conductor

- Cables are UL listed as Type MC, 600 V
- 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 and 250°C short circuit rating
- Excellent mechanical and physical properties
- Sunlight and oil resistant jacket
- LEAD FREE
- Suitable for direct burial and use in cable tray and embedment in concrete
- Can be installed in hazardous locations designated Class I or Class II Division 2, NEC Articles 501.10(B), 502.10(B) and Class III Division 1 and 2, NEC Article 503.10 (A) and (B)

Characteristics

Electrical characteristics

Operating voltage

600 V

FIREX® MC 3 Conductor

FIREX® MC 3 Conductor

Aluminum Armored Power and Control Cable UL Type MC, 90°C rated - LEAD FREE 600 V, 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	lb/kft	kg/km	amps (1)
634725	8(7w)	45	1.14	10(7w)	0.750	19.05	50	1.27	0.855	21.72	382	569	55
634733	6(7w)	45	1.14	8(7w)	0.820	20.83	50	1.27	0.925	23.50	527	784	75
634741	4(7w)	45	1.14	8(7w)	0.920	23.37	50	1.27	1.029	26.16	725	1079	95
634766	2(7w)	45	1.14	6(7w)	1.040	26.42	50	1.27	1.151	29.21	1038	1545	130
660594	1(19w)	55	1.40	6(7w)	1.169	29.69	50	1.27	1.279	32.49	1262	1878	150
634758	1/0(19w)	55	1.40	6(7w)	1.260	32.00	50	1.27	1.360	34.54	1501	2234	170
634774	2/0(19w)	55	1.40	6(7w)	1.349	34.26	50	1.27	1.459	37.08	1798	2676	195
645499	3/0(19w)	55	1.40	4(7w)	1.459	37.06	50	1.27	1.567	39.80	2218	3301	225
634782	4/0(19w)	55	1.40	4(7w)	1.590	40.39	60	1.52	1.722	43.69	2702	4021	260
634790	250(37w)	65	1.65	4(7w)	1.733	44.02	60	1.52	1.861	47.27	3173	4722	290
634808	350(37w)	65	1.65	3(7w)	1.922	48.82	60	1.52	2.050	52.07	4244	6315	350
634816	500(37w)	65	1.65	2(7w)	2.300	58.42	75	1.91	2.465	62.61	6134	9129	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.

Selling delivery information

Options

The following constructions can be provided on special orders:

- Aluminum conductors
- Steel interlock armor
- Extra ground wires
- Special color or number coding
- Specially colored jackets
- Other constructions and combinations (some manufacturing restrictions apply)