

2-hour fire-rated, polymer insulated, power cable

Flexible polymer insulated fire-rated cable for protection of critical life safety circuits.

Raychem® MC power cable is listed by UL as 2-hour fire-rated when installed in accordance with Tyco Thermal Controls installation procedures and system listings. This cable meets the requirements of an “Electrical Circuit Protective System” as referred to in Articles 695 and 700 of the National Electrical Code (NEC). The details of this system appear in Electrical Circuit Protective System (FHIT), System No. 17 of the UL Fire Resistance Directory.

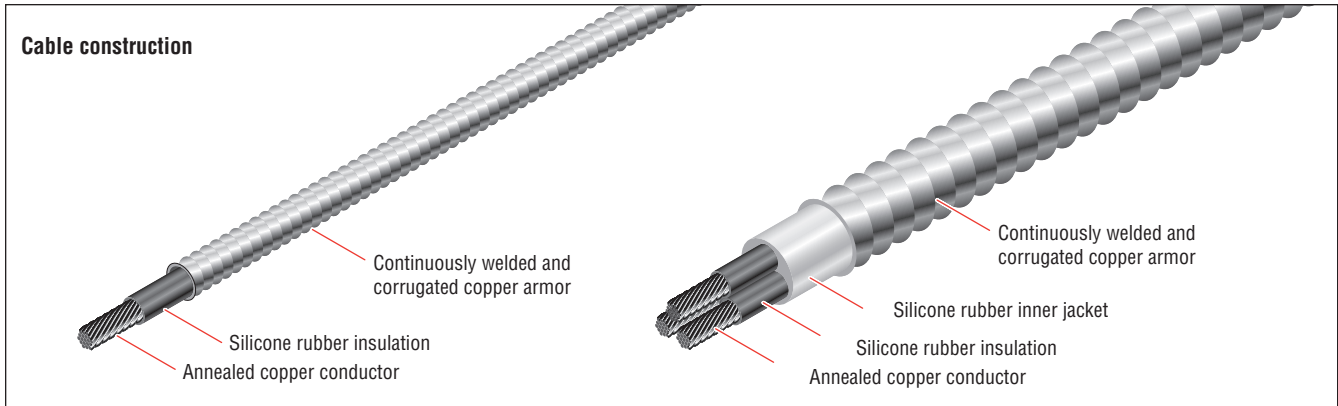
Raychem MC is:

- UL Listed, NEC Type MC in accordance with UL 1569
- UL Listed for CT (cable tray) use
- For use in wet locations to 90°C
- 2-hour fire rated per UL 2196
- Armored with copper sheath that exceeds the NEC requirement for equipment grounding conductor
- Simple to terminate with commercially available brass MC connectors

Raychem MC is ideal for:

- High-rise buildings – emergency feeders for fire pumps, elevators, smoke extraction and pressurization fans, etc.
- Historic buildings to assure preservation of fire fighting systems.
- Tunnels and subways for smoke extraction fans, fire pumps, emergency lighting, and other power circuits.
- Airports, stadiums, hotels, banks, etc.

For additional information, contact your Tyco Thermal Controls representative or call Tyco Thermal Controls at (800) 545-6258.



Cable Construction

Conductor	Annealed copper, Class “B” strand, designed to ensure tensile strength under fire conditions
Insulation	Thermoset, low smoke zero halogen silicone rubber
Insulation voltage rating	600 V
Circuit identification	Conductor insulation printed “1-ONE”, “2-TWO”, “3-THREE”, and so on per ICEA Method 4
Inner jacket	Thermoset, low smoke zero halogen silicone rubber
Armor	Continuously welded and corrugated copper
Outer jacket (optional)	Flame retardant polyvinyl chloride (PVC) or low smoke zero halogen (LSZH) polyolefin
Configuration	Single or multiconductor
Cable identification	Cable armor or optional outer jacket is printed with cable identification.

Cable Specifications (nominal)

Product code	Size (AWG/kcmil)	Number of conductors	Insulation thickness (in)	Inner jacket thickness (in)	Inner jacket diameter (in)	Armor thickness (mils)	Armor diameter (in)	Weight lbs/kft
MC-03010	10	3	0.06	0.05	0.61	25	0.94	550
MC-031X0	1/0	3	0.09	0.05	1.29	25	1.67	2080
MC-032X0	2/0	3	0.09	0.05	1.39	25	1.80	2450
MC-033X0	3/0	3	0.09	0.05	1.45	25	1.92	2850
MC-034X0	4/0	3	0.09	0.05	1.62	25	2.04	3430
MC-01250	250	1	0.105	0.05	0.89	25	1.22	1470
MC-01350	350	1	0.105	0.05	1.00	25	1.35	1840
MC-01500	500	1	0.105	0.05	1.12	25	1.48	2400

Notes:

- For other configurations and minimum order quantities, contact Tyco Thermal Controls at (800) 545-6258.
- Installation per UL Electrical Circuit protective System (FHIT) – System No. 17, and the National Electrical Code (NFPA 70).
- Multiconductor cable ampacity is based on Table 310.16 of the National Electrical Code. Single conductor ampacity should be in accordance with NEC 330.80.

Approvals

UL Classified, 2-hour fire-resistive cable,
tested to UL 2196