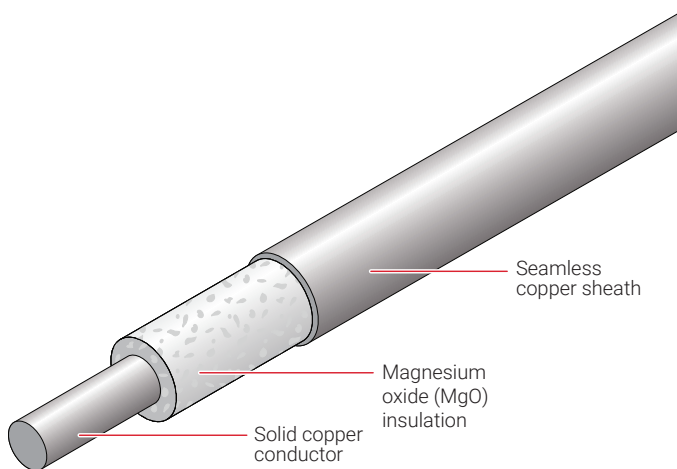


2-hour Fire-Rated, MI Copper-Sheathed Service Entrance Cable System

A service entrance system that allows service entrance conductors to be routed inside the building

PRODUCT OVERVIEW



When running traditional service entrance conductors through the building, electrical codes require that they be encased in concrete so that the conductors may be considered outside the building.

Pyrotenax System 1850-SE offers an alternative that has been approved by the Authorities Having Jurisdiction (AHJs) in several major cities including New York, Washington D.C., Philadelphia and New Orleans; and is allowed on a case-by-case basis in many other cities. In areas where lightning activity is exceptionally high, lightning protection must be installed. System 1850 cable is manufactured using only inorganic materials and offers a unique combination of dependability, versatility, and permanence with zero smoke generation, zero fuel contribution, and zero flame spread.

Unlike a conduit and wire system, System 1850 cables do not typically require derating and can be installed using the “free air” ratings of Table 310.15(B)(17) of the National Electrical Code (NEC).

The System 1850-SE service entrance cable system consists of:

- UL Classified 2-hour fire-rated mineral insulated (MI) cable
 - Pyrotenax QuickTerm service entrance termination kits
 - NEMA Class 12B steel ventilated cable tray with louvered covers (not included)
 - Optional SE-Protect lightning arrestor kit for lightning protection. For more information, contact Technical Support.
- Applications include service entrance feeders for buildings.

System 1850-SE can be used in the following environments:

- High-rise buildings
- Health care facilities
- Historic buildings
- Airports, stadiums, hotels, banks etc.

For additional information, contact your Chemelex representative or call (800) 545-6258.

CABLE CONSTRUCTION

Sheath	Seamless soft-drawn copper
Insulation	Highly compressed magnesium oxide (MgO)
Conductor type	Copper
Insulation voltage rating	600 V
Conductor size	4/0 MI, 250 kcmil, 350 kcmil, 500 kcmil
Number of conductors	1

CABLE TEMPERATURE RATING

Continuous exposure temperature	250°C (482°F)
Maximum exposure temperature	1010°C (1850°F)

BENDING RADIUS

	NEC	CEC
1/4/0-684	5x cable diameter	6x cable diameter
1/250-746	5x cable diameter	6x cable diameter
1/350-834	10x cable diameter	12x cable diameter
1/500-1000	10x cable diameter	12x cable diameter

TERMINATION KIT FOR SERVICE ENTRANCE APPLICATIONS

QuickTerm Kit

Seal type	Special service entrance seal
Gland fitting	Brass
Cable seal rating	Nonhazardous locations: 90°C (194°F) maximum
Termination and flexible tail size selection	

600 V WIRING CABLE SPECIFICATION

Cable reference number	Conductor size (kcmil)	Current rating NEC (75°C)	Current rating CEC (75°C)	Nominal cable diameter (in)	Nominal coil length ft (m)	Nominal weight (lb/1000 ft)	NPT gland size (in)
Single conductor							
1/4/0-684	4/0	360	360	0.684"	455 / (139)	1128	1-¼"
1/250-746	250	405	405	0.746"	383 / (117)	1341	1-¼"
1/350-834	350	505	505	0.834"	284 / (86)	1675	1-¼"
1/500-1000	500	620	620	1.0"	197 / (60)	2403	1-¼"

System 1850-SE ampacity is shown for cables landing on bus bar. For cables landing on circuit breakers or heat-sensitive devices, Table 310.15(B)(16) 75°C ampacities apply to System 1850-SE cables.

APPROVALS

Bulk Cable



Nonhazardous Locations

Hazardous Locations

Class I, Div. 1 and 2, Groups A, B, C, D

Class II, Div. 1 and 2, Groups E, F, G

Class III



Nonhazardous Locations



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



ULC Listed, 2-hour fire-resistant cable,
tested to ULC-S139

Terminated Cable

QuickTerm Kit



Nonhazardous Locations

Note: Overall approval of the terminated cable depends on the termination kit used.

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