

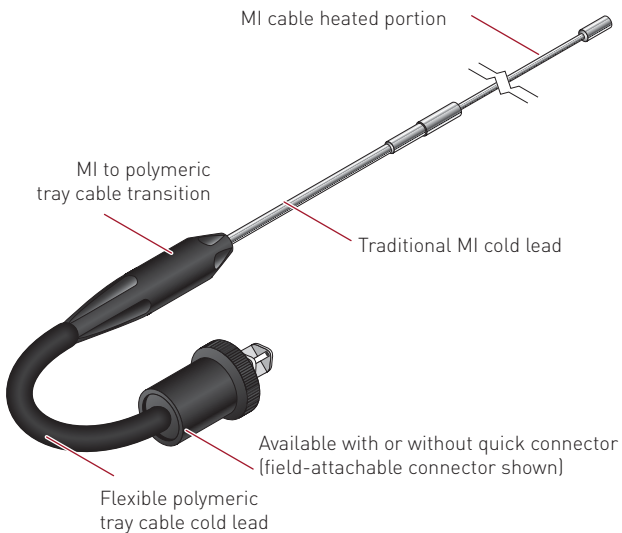


ALLOY 825 WITH PYROFLX COLD LEAD



OPTIONAL POLYMERIC FLEXIBLE COLD LEAD FOR ALLOY 825 SHEATHED MI HEATING CABLE

Electrical freeze protection and process temperature maintenance for nonhazardous and hazardous locations



PRODUCT OVERVIEW

Pyrotenax mineral insulated (MI) heating cable with the PyroFLX cold lead option offers all of the long standing benefits of a metal sheathed, Alloy 825 MI heating cable, along with the added advantages of a flexible, easy-to-install cold lead section. This feature is achieved by utilizing a section of cold-weather capable, highly impact resistant, flexible polymeric tray cable, integrated to a short segment of traditional MI cold lead. Installations of PyroFLX can be performed without excessive cold lead shaping and forming, minimizing expensive on-site labour costs. Additionally, since the tray cable can be easily routed in the field, junction boxes and cable-to-cable connections can be extended to make them easily accessible for maintenance purposes, avoiding costly scaffolding and maintenance troubleshooting time.

Pyrotenax PyroFLX cables are constructed and approved for use in nonhazardous and CID2 and Zone 2 hazardous locations.

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

APPLICATION

Reduced installation costs for series-connected cables, and where extended cold lead runs are required for power supply connections, for freeze protection and process temperature maintenance in hazardous and nonhazardous areas.

PYROFLX COLD LEAD LENGTH

MI cold lead segment*	5 ft (1.5 m) standard
Flexible tray cable*	3 ft (0.9 m) standard

*Longer lengths available

MI HEATING CABLE — ALLOY 825 WITH PYROFLX COLD LEAD

CONNECTOR OPTIONS

There are three options for connection configurations on the PyroFLX cold lead.

- 1) Molded quick connector
 - Factory installed
 - Permanently molded to tray cable (not removable in the field)
 - Available in both male and female configurations
- 2) Field-attachable quick connector
 - Installed standard at the factory
 - Mechanically attached to tray cable (can be installed or replaced in the field)
 - Available in both male and female configurations
- 3) No connector
 - Tray cable only for attachment into junction box
 - Customer to supply approved junction box connector

TEMPERATURE RATING

Maximum exposure temperature	1200°F (650°C) MI heating cable and cold lead 1022°F (550°C) MI cable splices and end cap 194°F (90°C) Flexible polymeric PyroFLX cold lead
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APPROVALS

Nonhazardous and Hazardous Locations



Class I, Div. 2, Groups A, B, C, D
Class II, Div. 2, Groups E, F, G
Class III

Zone 2

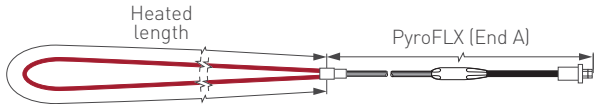
BASIC HEATING CABLE DESIGN CONFIGURATIONS

Heating cables with the PyroFLX cold lead option are supplied as complete factory-fabricated assemblies consisting of a MI heated section joined to a short segment of MI nonheating cold lead, which transitions into a flexible, polymeric tray cable by means of a molded splice.

PyroFLX cold leads are designed for use with Alloy 825 sheathed MI heating cables. Refer to design and technical information on H56870, MI Heating Cable – Alloy 825 data sheet.

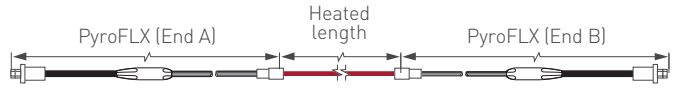
MI HEATING CABLE — ALLOY 825 WITH PYROFLX COLD LEAD

Design A



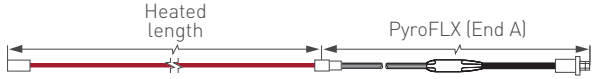
Design A: Single conductor cable (61 series only)

Design B



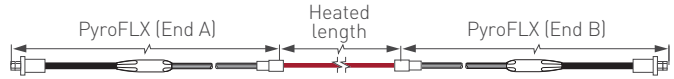
Design B: Single conductor cable (61 series only)

Design D

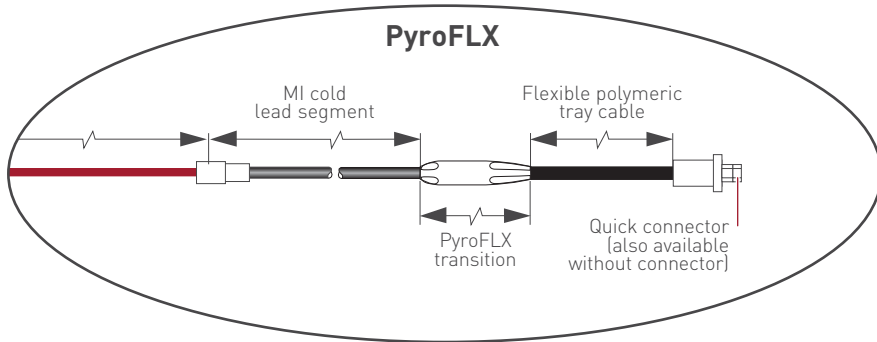


Design D: Dual conductor cable (32, 62 series only)

Design E



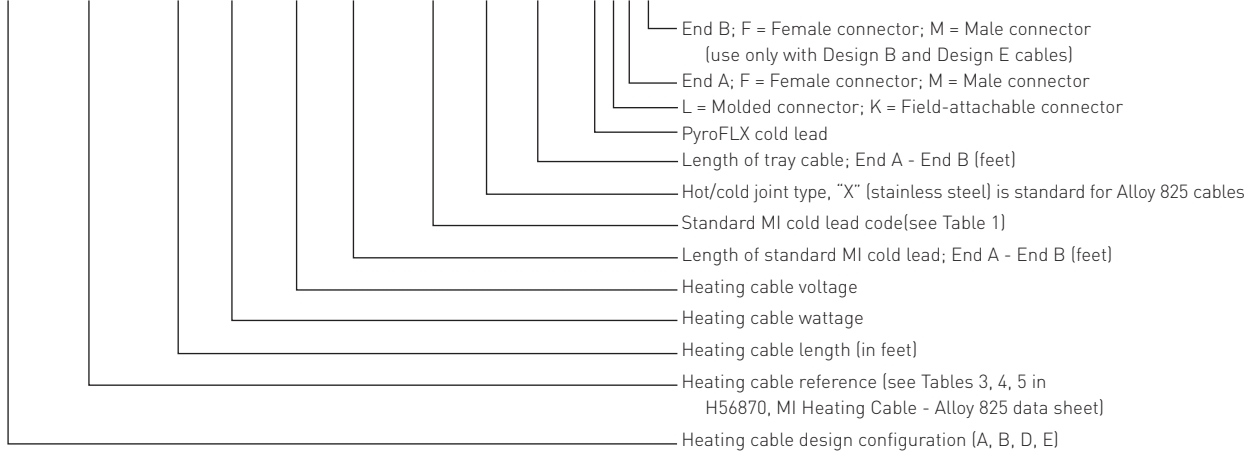
Design E: Dual conductor cable (32, 62 series only)



HEATING CABLE CATALOG NUMBER

To order an MI heating cable with the PyroFLX cold lead option, it is important to understand the format of our catalog number.

E/32SP4583/40/1800/68.1/5-7/LS23A/X/T8-10/RLFM



In the above heating cable catalog number, the length of the heated section, standard MI cold lead and the PyroFLX cold lead are in feet. For metric lengths, the heating cable catalog number would include a suffix "M" after the length, as follows: E/32SP4583/12.2M/1800/68.1/1.5-2.1M/LS23A/X/T2.4-3.0M/RLFM
 Conversion from English to Metric units is: L(ft) x 0.3048 = L(m)
 Conversion from Metric to English units is: L(m) x 3.2808 = L(ft)
 For Hazardous areas, specify approval required (see above Approvals section).

MI HEATING CABLE — ALLOY 825 WITH PYROFLX COLD LEAD

Examples

D/62SQ3100/200/9920/480/5/S25A/X/T3/RLM

- Heating cable configuration is Design D
- 600-V rated dual conductor cable, resistance at 20°C is 0.100 Ω/ft (0.328 Ω/m)
- Heating cable length is 200 ft (61 m)
- Heating cable wattage is 9920 W at 480 V
- Standard MI cold lead portion length is 5 ft (1.5 m)
- Standard MI cold lead code is S25A
- Standard stainless steel 'X' hot/cold joint
- Tray cable cold lead length is 3 ft (0.9 m)
- PyroFLX cold lead option with mold-ed male quick connector

E/32SQ3200/25.0M/870/120/2.1-4.1M/LS23A/X/T5-10M/RKFM

- Heating cable configuration is Design E
- 300-V rated dual conductor cable, resistance at 20°C is 0.2 Ω/ft (0.656 Ω/m)
- Heating cable length is 25 m (82 ft)
- Heating cable wattage is 870 W at 120 V
- Standard MI cold lead portion length is 2.1 m (7 ft) on end A and 4.1 m (13 ft) on end B
- Standard MI cold lead code is LS23A
- Standard stainless steel 'X' hot/cold joint
- Tray cable cold lead length is 5 m (16 ft) on end A and 10 m (33 ft) on end B
- PyroFLX cold lead option with field attachable female quick connector on end A and field attachable male quick connector on end B

TABLE 1 PYROFLX COLD LEADS

Design A, D, E			Design B		
Cold lead reference	Maximum voltage (V)	Maximum current (A)	Cold lead reference	Maximum voltage (V)	Maximum current (A)
LS23A	300	23	S29A	600	29
S25A	600	25	S40A	600	30
S34A	600	30			

GROUND-FAULT PROTECTION

To minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with the requirements of Pentair Thermal Management, agency certifications, and national electrical codes, ground-fault equipment protection must be used on each heating cable branch circuit. Arcing may not be stopped by conventional circuit protection. Many DigiTrace control and monitoring systems meet the ground-fault protection requirement.



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