Pyrotenax mineral insulated (MI) wiring cable system

The ultimate fire survival cable system
Pyro MI The ultimate fire survival MI wiring cable system for versatility and ultimate fire survival performance

Pyro MI Cable Systems were installed when fire broke out in the Channel Tunnel in November 1996. Resisting extreme temperatures that destroyed concrete and welded rails, the Pyro MI Wiring Cable allowed emergency lighting to operate for the safe evacuation of passengers; proving its superior fire survival capability.
Pyro MI Fire Survival Cable System - provides the ideal solution to many difficult and demanding wiring installations making a permanent and dependable wiring cable system for all low and medium voltage applications. Safe in hazardous installations and radio active environments. Exceeds all world wide fire performance standards. The Pyro MI Cable System is the natural choice for domestic, commercial and industrial applications.

Pyro MI Tried, tested and approved worldwide
Pyro MI Range

The standard range of Pyro MI Cable provides the ideal solution for almost all electrical circuits in the low voltage category.

Two voltage grades - 500 and 750 Volts, are available with conductors from 1.0 sq.mm to 240 sq.mm. A full range of complementary accessories and tools provides a complete wiring system supplied and supported by the “Genuine Pyrotenax” component assurance.

Pyro MI Benefits

- Pyro MI survives the fire test requirements for enhanced grade cables as defined in BS 5839: part 1.
- Peace of mind from the third party (LPCB) approval for categories C, W and Z in BS 6387.
- Also attains categories C, W and Z of BS 6387 with one single cable sample.

Pyro MI Construction

With a basic inorganic construction of a copper sheath and conductors, together with a mineral insulant, the cable provides a unique combination of dependability, versatility and permanence.

This construction, with the melting points of 1083°C and 2800°C for the copper and the insulant respectively, provides the unsurpassed Fire Survival properties which enable the cable to continue to carry current at temperatures in excess of 1000°C.

Pyro MI Construction Characteristics

- Fireproof
- High Operating Temperatures
- Inherent Flameproof Barrier
- Zero Energy
- Non-Ageing
- Great Mechanical Strength
- Small Overall Diameter
- Pliable
- Wiring Cable and Conduit Combined
- Competitive Installed Cost
- High Degree of Electrical Screening
- Radiation Resistant
- Integral Earth Continuity
- High Corrosion Resistance
- Waterproof
Pyro Twist Cables

Pyro Twist is a range of communication and signal cables for life preservation and integrated building management systems. They have been developed from the proven characteristics of Pyro MI to maintain the security of vital signals in communication and data networks, particularly in hostile conditions.

Pyro Twist Additional Characteristics and Advantages

- Twisted conductor configuration with a solid copper screen.
- Pyro Twist available in red (other colours available upon request).
- Pyro Twist uses standard accessories for the equivalent Pyro MI Light Duty cable size.
- Pyro Twist can be installed and terminated by following the normal procedures for Pyro MI Cable.
- The twisted copper conductor configuration enhances the EMC noise rejection characteristics, reducing the possibility of system malfunction.
- The exceptionally low impedance of the solid copper sheath provides a superior EMC screening than other cable systems.
- Minimal smoke obscuration in the event of fire.
Pyro MI Typical Applications

Moving Walkways
Car Parking
Public Buildings
Metro Links
Hotels
Shopping Complexes
Building Services
Offshore
Rail Tunnels
Road Tunnels
Dock and Harbour
Original Equipment
Building Exteriors
Power Generating
Escalators
Transport/Interchanges
Petrol Stations
Petrochemicals
Airport
Water Treatment

The following is a very brief list of products where Pyro MI Cables have been extensively specified and installed in situations demanding circuit integrity in the most critical situations.

**Thermal Power Stations - Gas, Coal, Oil and Nuclear**

- **Project**: Fawley
  - **Location**: United Kingdom
- **Project**: Fiddler’s Ferry
  - **Location**: United Kingdom
- **Project**: Doha West
  - **Location**: Kuwait
- **Project**: Nkand Mine
  - **Location**: Zambia
- **Project**: Ap Lei Chan
  - **Location**: Hong Kong
- **Project**: Heysham
  - **Location**: United Kingdom
- **Project**: Kalpakam
  - **Location**: India
- **Project**: Torness
  - **Location**: United Kingdom
- **Project**: Hartlepool
  - **Location**: United Kingdom
- **Project**: Marvikien
  - **Location**: Sweden
- **Project**: Latina
  - **Location**: Italy
- **Project**: Solovakia Al
  - **Location**: Slovakia
- **Project**: Torre
  - **Location**: Italy
- **Project**: Kalkar (FBR)
  - **Location**: Germany
- **Project**: Dungeness (A&B)
  - **Location**: United Kingdom
- **Project**: Rihand
  - **Location**: India
- **Project**: Trillo (PWR)
  - **Location**: Spain
- **Project**: Monju (FBR)
  - **Location**: Japan
- **Project**: Sabya
  - **Location**: Kuwait
- **Project**: Taweelaah’B’
  - **Location**: Abu Dhabi
- **Project**: Blackpoint
  - **Location**: Hong Kong

**Production Platforms - Oil and Gas**

- **Project**: Kuwait Oil Company (KOC)
- **Project**: Kuwait National Petroleum Co (KNPC)
- **Project**: ARAMCO
- **Project**: Petromin - Saudi Arabia
- **Project**: National Iranian Oil Company
- **Project**: Royal Dutch Shell - Netherlands
- **Project**: Union Oil
- **Project**: EXXON
- **Project**: Abu Dhabi National Oil Company (ADNOC)
- **Project**: Shell UK
- **Project**: Chevron, Statoils
- **Project**: Qatar General Petroleum Corporation
- **Project**: BP Chemicals
- **Project**: Oil & Natural Gas Company - India (ONGC).

**Major Oil Companies Specifying Pyrotenax for On and Offshore Installations.**

**Reference List**

- **Kuwait Oil Company (KOC)**
- **Kuwait National Petroleum Co (KNPC)**
- **ARAMCO**
- **Petromin - Saudi Arabia**
- **National Iranian Oil Company**
- **Royal Dutch Shell - Netherlands**
- **Union Oil**
- **EXXON**
- **Abu Dhabi National Oil Company (ADNOC)**
- **Shell UK**
- **Chevron, Statoils**
- **Qatar General Petroleum Corporation**
- **BP Chemicals**
- **Oil & Natural Gas Company - India (ONGC).**
Throughout the world Pyro MI Fire Survival Wiring products are used for vital communication and power distribution.

**Pyro MI Middle East Major Projects**

Pyro MI Cables have been selected and approved for use in Middle East Projects by an impressive number of renowned specifiers as shown below. The list of projects where Pyro MI Cables have been installed is much longer than those mentioned below.

**Project References**

- Dubai International Airport
- Bahrain International Airport
- Riyadh International Airport (Muscat International Airport)
- Kuwait International Airport
- North Dome - GQPC Qatar
- Gulf Hotel - Bahrain
- Sheraton - Doha
- Alba - Bahrain Aluminium Smelter
- Dubai - Dubai Aluminium Smelter
- Sharjah Suk
- Dubai ‘G’ Power Station
- Dubai ‘F’ Power Station
- Sabiya Power Station Kuwait
- ADNOC Das Island - Gas Storage
- Doha East Power Station - Kuwait
- Doha West Power Station - Kuwait
- Etisalat Telecommunications
- Building - Abu Dhabi
- Mew Sub-Station
- Holiday Inn Crown Plaza - Dubai
- Riyadh University Hospital
- Al Zoor Power - Kuwait
- Ras Abu Fontas P S Qatar
- ADNOC HQ Building Abu Dhabi
- Bahrain Islamic Bank
- BATELCO - Bahrain
- National Bank of Dubai
- Al Wasi Hospital - Dubai
- Chamber of Commerce
- Buildings - Dubai
- Hilton Apartments - Kuwait
- SECO Sub-Station - Saudi Arabia
- Diplomatic Area - Riyadh
- Jubbail Port - Saudi Arabia
- Damman Port - Saudi Arabia
- Jeddah Port - Saudi Arabia
- Jebel Ali Port - Dubai

**Road Tunnels**

- **Project**
  - Kai Tak
  - Mersey Kingsway
  - Mersey Queensway
  - Tyne
  - Lewes

- **Location**
  - Kowloon - Hong Kong
  - Liverpool - United Kingdom
  - Liverpool - United Kingdom
  - Newcastle - United Kingdom
  - Lewes - United Kingdom

**Rail Tunnels**


**Cables**

Pyrotenax MI Wiring Cables are manufactured, tested in accordance with, and LPCB approved to, BS EN 60702-1.

Pyrotenax MI Wiring Cables are LPCB approved to BS 8434-2, BS 5839-1 Clause 26.2 (Enhanced), BS EN 50267-1, and BS EN 50200 Class PH 120. Pyrotenax MI wiring cables have also been witnessed tested, by Lloyds Register, to the test requirements of BS7346-6.

**Quality Certification**

- [LPCB Cert No. 063](#)

**Terminations**

Pyrotenax Terminations are tested in accordance with BSEN 60702: Part 2. Pyrotenax Terminations are Certified for use in potentially explosive atmospheres. Glands - Baseefa08ATEX0327X and IECEx BAS 08.0107X Increased Safety Seals - Baseefa02ATEX0194U

Pyrotenax cable drums, reels and termination packaging are marked with the CE mark as required by the low voltage directive, except for Terminations primarily intended for installation in potentially explosive atmospheres which are not marked, because the directive does not apply.

**Other Standards and Codes of Practice Referring to MI Cables:**

- BS 8434- Methods of test for assessment of the fire integrity of electric cables Part1: Test for unprotected small cables for use in emergency circuits - BS EN 50200 with the addition of water spray.
- BS EN 60702: Part 2: Test for unprotected small cables for use in emergency circuits - BS EN 50200 with a 930°C flame and with water spray.
- BS 6387- 1994 Performance Requirements for Cables Required to Maintain Circuit Integrity under Fire Conditions.
- IEC 60331- Tests for Electric Cables under fire conditions.
- Underwriters Laboratories- UL2196-USA, ULC-S139-Canada. Tests for fire resistant cables.
- BS EN 60702-1 & 60702-2: Mineral Insulated Cables and their Terminations.
- BS 7671- Requirements for Electrical Installations (IEE Wiring Regulations).
- BS 5588: Fire Precautions in the design, construction and use of buildings,
- BS 5266- Emergency Lighting.
- BS 60079- Code of Practice for the selection, installation and maintenance of electrical apparatus for use in Potentially Explosive Atmospheres.
- BS 5454- Storage and exhibition of Archival Documents.
- BS 5839- Fire detection and alarm systems in Buildings.
- C.I.O. Lighting and Wiring of Churches.
Fire Performance

Pyro MI easily meets and exceeds the BS 5839-1 Enhanced and Standard Grade Requirements

The BS 5839-1 (Fire detection and alarm systems for buildings - Part 1: Code of practice for system design, installation, commissioning and maintenance) describes two levels of fire performance for fire rated cabling for fire alarm systems. These performance levels have now been published within a British Standard.

Pyro MI easily complies with and exceeds all the requirements for Enhanced Grade and Standard Grade described within these new standards and is LPCB approved.

Pyro MI is the obvious choice for both Standard Grade and Enhanced Grade critical signal paths.

Fire Performance BS 6387 Performance Requirements for Cables Required to Maintain Circuit Integrity under Fire Conditions.

This standard details the following tests to categorise cables according to their fire withstand capabilities.

Resistance to Fire 950°C for 3 hours - Category C

The cable is tested by exposure to gas burner flames while passing a current at its rated voltage. Four survival categories are defined in the Performance Table below.

<table>
<thead>
<tr>
<th>Performance Table</th>
<th>Symbol</th>
<th>Pyro MI</th>
</tr>
</thead>
<tbody>
<tr>
<td>650°C for 3 hours</td>
<td>A</td>
<td>Surpasses</td>
</tr>
<tr>
<td>750°C for 3 hours</td>
<td>B</td>
<td>Surpasses</td>
</tr>
<tr>
<td>950°C for 3 hours</td>
<td>C</td>
<td>Surpasses</td>
</tr>
<tr>
<td>950°C for 20 minutes</td>
<td>S</td>
<td>Surpasses</td>
</tr>
</tbody>
</table>

Resistance to Fire with Water Spray 650°C - Category W

A new sample of cable is exposed to flames at 650°C for 15 minutes whilst passing a current at the rated voltage and then the spray is turned on to give exposure to both fire and water for a further 15 minutes.

A single survival category is defined in the Performance Table below.

<table>
<thead>
<tr>
<th>Performance Table</th>
<th>Symbol</th>
<th>Pyro MI</th>
</tr>
</thead>
<tbody>
<tr>
<td>650°C for 3 hours</td>
<td>W</td>
<td>Surpasses</td>
</tr>
</tbody>
</table>

Resistance to Fire with Mechanical Shock 950°C Category Z

The final requirement is mechanical shock damage. A fresh sample of cable is mounted on a backing panel in an S-bend and is exposed to flames whilst the backing panel is struck with a solid steel bar the same diameter as the cable under test every 30 seconds for 15 minutes. Whilst the cable has been exposed to temperatures as defined in the Performance Table below.

<table>
<thead>
<tr>
<th>Performance Table</th>
<th>Symbol</th>
<th>Pyro MI</th>
</tr>
</thead>
<tbody>
<tr>
<td>650°C</td>
<td>X</td>
<td>Surpasses</td>
</tr>
<tr>
<td>750°C</td>
<td>Y</td>
<td>Surpasses</td>
</tr>
<tr>
<td>950°C</td>
<td>Z</td>
<td>Surpasses</td>
</tr>
</tbody>
</table>

“Beyond the Standard...Pyro MI Cable can easily comply and withstand the most onerous categories of C, W and Z using one single Cable Sample.”
To fully assess the Fire Survival qualities of Pyro MI Cable and in response to requests from major specifiers, more rigorous testing criteria have been devised. The aim of the tests is to extend the conditions of BS 6387 to effectively recreate a more realistic fire situation by exposing the cable to significant thermal and physical shock.

In a fire environment cable has to survive not only the extremes of high temperature but also the impact from falling debris together with water exposure from fire fighting equipment.

In the aftermath of a fire the cable must also withstand bending, further impact and possible water immersion during building and structural restoration.

Cable struck directly with a steel bar (at the centre of the burner) every 10 minutes during a 3 hour period in a flame at 950°C.

Cable then sprayed with water for 15 minutes whilst still being struck by the bar.

Cable then bent at the point of impact through 180°.

Further mechanical impact shock.

Finally immersed in water for 1 hour whilst energised at its rated voltage.
## Pyro MI Cable System Data and Accessory Selection

### Pyro MI Enhanced Grade Fire Survival Cable

#### Light Duty 500V Grade

<table>
<thead>
<tr>
<th>Number &amp; Cross Section</th>
<th>Current Ratings</th>
<th>Volt Drop</th>
<th>Cable Diameter</th>
<th>Approximate Connection Diameter</th>
<th>Approximate Wire (Screwing)</th>
<th>Approx. Weight Per 100m</th>
<th>Screw On Seal 105°C</th>
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</thead>
<tbody>
<tr>
<td>LSF</td>
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<td>BASE</td>
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<td>17.5</td>
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<td>22.5</td>
<td>28</td>
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<td>1.39</td>
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<tr>
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<td>30</td>
<td>17</td>
<td>8.1</td>
<td>6.5</td>
<td>1.77</td>
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<td>10</td>
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<td>2L1*</td>
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<td>16.5</td>
<td>15</td>
<td>36</td>
<td>7.3</td>
<td>5.8</td>
<td>1.13</td>
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<tr>
<td>2L1.5*</td>
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<td>19</td>
<td>24</td>
<td>7.9</td>
<td>6.4</td>
<td>1.63</td>
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<tr>
<td>2L2.5*</td>
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<td>25</td>
<td>14</td>
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<td>7.3</td>
<td>1.77</td>
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<td>4L1*</td>
<td>4x1</td>
<td>16</td>
<td>14.5</td>
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<td>6.3</td>
<td>1.13</td>
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<tr>
<td>4L1.5*</td>
<td>4x1.5</td>
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<td>19</td>
<td>24</td>
<td>8.5</td>
<td>7.0</td>
<td>1.39</td>
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<td>4L2.5*</td>
<td>4x2.5</td>
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<td>14</td>
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<td>17</td>
<td>11</td>
<td>14.7</td>
<td>9.7</td>
<td>1.77</td>
</tr>
</tbody>
</table>

#### Heavy Duty 750V Grade

<table>
<thead>
<tr>
<th>Number &amp; Cross Section</th>
<th>Current Ratings</th>
<th>Volt Drop</th>
<th>Cable Diameter</th>
<th>Approximate Wire (Screwing)</th>
<th>Approx. Weight Per 100m</th>
<th>Screw On Seal 105°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSF</td>
<td>BASE</td>
<td></td>
<td>BASE</td>
<td>BASE</td>
<td>BASE</td>
<td>BASE</td>
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<td></td>
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<tr>
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<td>9.8</td>
<td>7.3</td>
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<td>10.9</td>
<td>8.3</td>
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<tr>
<td>1H25*</td>
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<td>11.7</td>
<td>9.6</td>
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<tr>
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<td>11.7</td>
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<td>1H75*</td>
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<td>251</td>
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<td>483</td>
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<td>16.7</td>
</tr>
</tbody>
</table>

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**Note:** Values quoted are nominal only please consult your local distributor for confirmation of exact available limits.
<table>
<thead>
<tr>
<th>Cable</th>
<th>LSF Gland</th>
<th>LSF Pyro Cup</th>
<th>LSF Pyro Saddle</th>
</tr>
</thead>
<tbody>
<tr>
<td>271</td>
<td>2L 20</td>
<td>2L 20</td>
<td>2L 20</td>
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<tr>
<td>271.5</td>
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<tr>
<td>472.5</td>
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</tbody>
</table>

**Pyro Twist Accessory Data**

**Coloured Conductor Slewing**

Coloured slewing is available in red, black, yellow/green and blue for conductor sizes from 1.00mm² to 2.5mm².

**Ordering Reference Example:** For 2.5mm² Red slewing, please use reference R2P 2.5 RD.

**Pyro Tag Earth Tail Washers**

For certain sizes of conductor, a Pyro Tag Earth Tail Washer can be used instead of the Earth Tail Seal (Ref: RPSL).

**Pyro Twist Accessory Data**

### Light Duty 500V Grade

<table>
<thead>
<tr>
<th>Ref</th>
<th>Diameter</th>
<th>Colour</th>
<th>Material</th>
<th>Length</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2L1</td>
<td>2L 10</td>
<td></td>
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<td></td>
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<td>2L1.5</td>
<td>2L 15</td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

**Heavy Duty 750V Grade**

### Current Ratings and Volt Drop Values

Current ratings and volt drop values are for 3 phase operation, single conductor cables installed horizontally spaced. All other values are for single phase operation.

**Current ratings and volt drop values are based upon tables 4.1A & 4.1B of the latest BSI 7671 16th edition of the IEE Wiring Regulations method 11 (cable on a perforated cable tray).

†† These sizes are normally supplied in 100m lengths, longer lengths are readily available on application.

**Note:** Cables Ref 1H120 and larger, whose lengths are in excess of standard supply length: 100m.
**Pyro MI Cable System Terminations**

**Seals and Insulators**

A seal is normally required at each end of a Pyrotenax MI Cable to provide a means of electrical connection. The Standard Brass 105°C Seal is suitable for the majority of general wiring applications. However since Pyrotenax Cables are used in a wide variety of environments, a comprehensive range of seals and insulators are available to suit every need. A complete termination comprises a seal to provide a means of electrical connection and a gland to secure the cable into the appropriate apparatus. Externally threaded brass compression glands are available with ISO metric threads as standard. Other thread forms are available on request. Internally threaded 20mm ISO metric brass compression glands are available for the full range of 2, 3 and 4 conductor, 500 volt light duty cables.

### Standard Seal
Continuous operating temperature range - 80°C to 105°C. These standard seals are suitable for all general wiring applications. Available in plain or earth tail. Typical seal references:
- e.g. Plain-RPS 2L2.5 20
- Earth Tail-RPSL2L2.5 20
- e.g. Plain-RPS 2H6 20
- Earth Tail-RPSL2H6 20

### High Temperature Glazed Insulator
For environments up to 250°C, an glazed insulator can be constructed as follows:

1. Use the brass screw on pot from a standard seal (ref RPS).
2. A cap or disc is not required.
3. Use PTFE conductor sleeving (Ref RZPT) instead of the PVC sleeving.

Please note that this insulator may not maintain a high insulation resistance (IR) at ambient temperatures.

### Increased Safety Seal
Continuous operating temperature range -20°C to 85°C. Intended for use with type of protection “e” in potentially explosive atmospheres. Available in plain and earth tail.

Typical seal references:
- Plain-RPA2H6 20
- Earth Tail-RPAL2H6 25

### Fire Resistant Seal
When fire resistance is required, standard Pyrotenax 105°C seal Ref. RPS may be used provided that the standard PVC sleeving is replaced by silicon elastomer coated glass braided sleeving Ref. RZPS.

Such seals will pass a circuit integrity test, essentially as given in BS 6387 for Category C, with seals in a 950°C flame for 3 hours. For 32 and 40mm sizes call Technical Support on: Tel: 0191 419 8200.

Use this seal when radiation resistance is required, as it has been satisfactorily tested to 100 M Rad.
Preparing the Cable End


2. Apply Pyro Stripping Tool and turn clockwise to remove sheath. Use pliers to stop at required position.

3. Using pliers or Pyro Potting Tool, screw seal pot onto cable to position shown. Remove any loose powder.

4. Completely fill the pot with compound from one side only.

5. Using Pyro Crimping Tool compress compound and secure pot closure.

6. Fit conductor sleeving.

For detailed fitting instructions consult Installation Recommendation IR 200.
To secure Pyro MI Cable, far fewer fixings are required in comparison with other cable types. By using Pyrotenax recommended fixing distances, savings of up to 40% can be achieved on fixing costs compared to conventional fixing distances.

Whether fixed on the surface, on a cable tray, behind plaster, in a roof space or suspended ceiling, Pyro MI Cable measures up to a real installation cost advantage.

The fixing distances shown in the table below represent a saving of up to 40% in comparison with traditional methods of installation practice, where pliable cables are fixed at an average of 225mm (9") intervals compared to the Pyrotenax recommendation of 350mm (14") centre.

### Pyrotenax Recommended Fixing Distances

#### Fixing Distances Vertical

<table>
<thead>
<tr>
<th>Cable Diameter</th>
<th>Surface</th>
<th>On Cable Tray</th>
<th>Behind Plaster</th>
<th>In Roof Space or Suspended Ceiling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 9mm</td>
<td>550mm</td>
<td>800mm</td>
<td>600mm</td>
<td>550mm</td>
</tr>
<tr>
<td>9mm upto 20mm</td>
<td>600mm</td>
<td>1000mm</td>
<td>–</td>
<td>800mm</td>
</tr>
<tr>
<td>Over 20mm</td>
<td>650mm</td>
<td>1200mm</td>
<td>–</td>
<td>1000mm</td>
</tr>
</tbody>
</table>

#### Fixing Distances Horizontal

<table>
<thead>
<tr>
<th>Cable Diameter</th>
<th>Surface</th>
<th>On Cable Tray</th>
<th>Behind Plaster</th>
<th>In Roof Space or Suspended Ceiling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 9mm</td>
<td>450mm</td>
<td>800mm</td>
<td>600mm</td>
<td>550mm</td>
</tr>
<tr>
<td>9mm upto 20mm</td>
<td>500mm</td>
<td>1000mm</td>
<td>–</td>
<td>800mm</td>
</tr>
<tr>
<td>Over 20mm</td>
<td>550mm</td>
<td>1200mm</td>
<td>–</td>
<td>1000mm</td>
</tr>
</tbody>
</table>
Reels

The popular Light Duty cable sizes are supplied as standard in 100 metre lengths on non-returnable reels as follows:

<table>
<thead>
<tr>
<th>Cable size</th>
<th>2L1.5</th>
<th>2L2.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length (approx) m.</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Type available</td>
<td>Bare Copper or LSF Outer Covered</td>
<td>Orange, Red or White</td>
</tr>
<tr>
<td>Reel dimensions</td>
<td>400mm dia x 190mm width</td>
<td></td>
</tr>
<tr>
<td>Reel Weight kg</td>
<td>6.9</td>
<td>22.2</td>
</tr>
</tbody>
</table>

Drums

The following cables can be supplied ex-stock on non-returnable drums.

<table>
<thead>
<tr>
<th>Cable size</th>
<th>2L1.5</th>
<th>2L2.5</th>
<th>3L1.5</th>
<th>3L2.5</th>
<th>4L1.5</th>
<th>4L2.5</th>
<th>7L1.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coil Length (approx) m.</td>
<td>500</td>
<td>500</td>
<td>500</td>
<td>500</td>
<td>490</td>
<td>490</td>
<td>500</td>
</tr>
<tr>
<td>LSF</td>
<td>Orange</td>
<td>Red</td>
<td>White</td>
<td>Orange</td>
<td>Red</td>
<td>White</td>
<td>Orange</td>
</tr>
<tr>
<td>Drum flange dia mm.</td>
<td>750</td>
<td>750</td>
<td>750</td>
<td>750</td>
<td>1102</td>
<td>1102</td>
<td>1102</td>
</tr>
</tbody>
</table>

NOTE:

In addition, all cables can be supplied in nominal coil lengths on free of charge non-returnable plywood drums. For approximate lengths and weights of all cables please see pages 12 and 13. In instances where shorter lengths are required on drums an extra charge will be incurred.

Pyro MI Coils, Reels and Drums

Smaller Overall Diameter Gives More Compact Fixing Profile

Cables shown approximately half size.

LSF Pyro Clips and Saddles from Pyrotenax

The latest addition to the Pyrotenax range is the new range of LSF and Halogen Free Cable Clips and Saddles. In addition to mechanical strength and fire safety advantages, they are colour matched against Pyro MI Cables and fixing sizes are easily visible when using them on site.

Pyro Strap

Two types of Pyro Strap are available, pre-punched or solid copper. Both types are available either in bare copper or with an additional plastic covering (Orange, Red or White).
Our products satisfy the requirements of the relevant European Directives.

www.tycothermal.com

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