

# TERMINATION KITS - INDUSTRIAL WIRING



**PYROTENAX**

## FOR MINERAL INSULATED (MI) INDUSTRIAL WIRING CABLE

### PRODUCT OVERVIEW

nVent PYROTENAX Pyropak and QuickTerm termination kits are used to field-terminate copper and Alloy 825 sheathed MI wiring cables.

#### QUICKTERM TERMINATION KIT

The QuickTerm termination kit is used to field-terminate #6 AWG and larger single conductor copper-sheathed MI wiring cable in nonhazardous areas and is available in two versions. The size-for-size QuickTerm kit allows the MI solid conductor to be joined to an equal size flexible tail. The sized-up QuickTerm kit allows the MI solid conductor to be joined to a larger size flexible tail.

The QuickTerm kit contains enough material to terminate two cable ends and offers the following features and benefits:

- Reduces the time required to make the cable termination
- Includes a special connector to splice the solid MI conductor to a flexible tail
- Offers improved flexibility of the tail in the cabinet or enclosure

The flexible tail, supplied by the installer, must be compatible with the current rating of the circuit. The tail size selected will depend on whether a "Size-for-size" or a "Sized-up" QuickTerm is used (see "Table 1 QuickTerm Kit Configuration Information" for QuickTerm tail sizes). For further information on installing QuickTerm kits, refer to:

- Size-for-size QuickTerm Installation Instructions (H58290)
- Sized-up QuickTerm Installation Instructions (H58264)
- Service Entrance QuickTerm Termination Kit Installation Instructions (H58379)

#### PYROPAK TERMINATION KIT

Pyropak termination kits are available for all sizes of Alloy 825 and copper sheathed cables. They must be used to terminate all single and multiconductor Alloy 825 sheathed cables and all multiconductor and 10 AWG to 8 AWG single conductor copper sheathed cables.

Pyropak kits are approved for use in nonhazardous and hazardous areas. The cable end is sealed using either a mastic sealing compound or an epoxy sealing compound, depending on the temperature rating required. Each kit contains enough material to terminate two cable ends.

In areas where the potential for hydrocarbon flash fires may exist, a special fire protection hub is available to protect the termination for Alloy 825 sheathed wiring cables. The fire protection hub will protect the MI cable termination at temperatures up to 2000°F (1093°C) for up to 30 minutes.

To reduce installation time, MI wiring cables can be supplied with factory terminated ends. Copper-sheathed cables are supplied with brass gland connectors and the cable ends are sealed with an epoxy sealing compound. Further information on factory-terminated copper sheathed wiring cables can be found in the nVent PYROTENAX System 1850 data sheet (H57048) and the System 1850 Twisted Pair data sheet (H57473).

Factory-terminated Alloy 825 sheath cables are supplied with stainless-steel gland connectors and the cable ends are sealed with an epoxy sealing compound. Further information on factory-terminated Alloy 825 sheathed cables can be found in the nVent PYROTENAX System 2000 data sheet (H57049), System 2000 (Metric) data sheet (H57049A), System 2200 data sheet (H57050), and the System 2200 (Metric) data sheet (H57050A).

Commercial and industrial MI wiring cables are approved as a complete system only when used with the appropriate termination kit. The use of nonapproved components will compromise the reliability of the system and invalidate approvals and warranties.

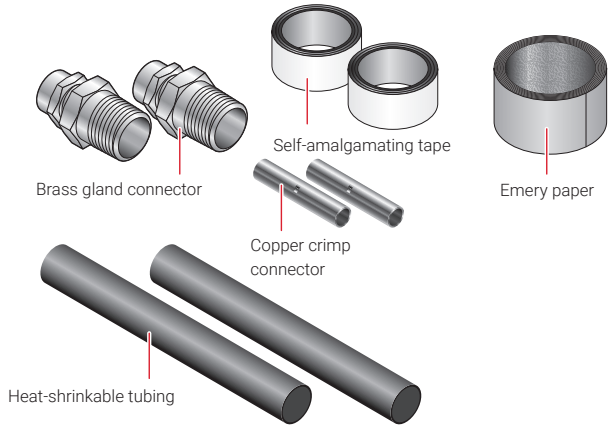
For more information on termination kits for MI cable, contact your nVent representative or call (800) 545-6258.

## TERMINATION KITS

	Copper-sheathed cables	Alloy 825 sheathed cables
Pyropak	Yes	Yes
QuickTerm (single conductor cables)	Yes*	No
Fire protection hubs	No	Yes

\* Available for #6 AWG and larger cables

## QUICKTERM TERMINATION KITS FOR SINGLE CONDUCTOR COPPER-SHEATHED CABLES



Termination type	Field termination (for two cable ends)
Seal type	Self-amalgamating tape
Temperature rating	194°F (90°C) maximum
Gland connector	Brass
Gland size	1/2", 3/4", 1", or 1-1/4" NPT depending on cable size
Cable configurations	For #6 AWG and larger single conductor copper-sheathed cables
Tail type and AWG size	Supplied by installer (see Table 1 for tail size)

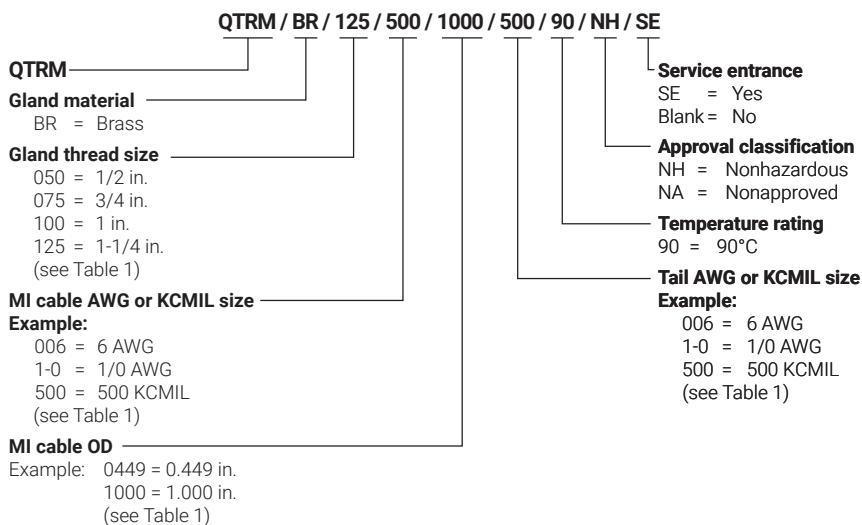
**Note: Use a cable certified for the application**

## APPROVALS



Nonhazardous Locations

## QUICKTERM KIT CATALOG NUMBER CONFIGURATOR



**Example:** Sized-up QuickTerm kit required for 1/3/0-621, single conductor # 3/0 AWG cable to use a 350 kcmil tail is:  
**Catalog No.: QTRM / BR / 075 / 3-0 / 0621 / 350 / 90 / NH**

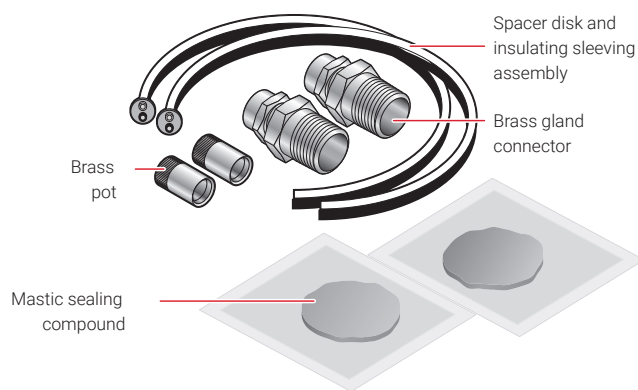
**TABLE 1 QUICKTERM KIT CONFIGURATION INFORMATION**

System 1850 - Fire-rated MI cable					
Common information for all QuickTerm kits					
MI cable reference number	Gland thread size (in)	MI cable size (AWG / kcmil)	MI cable diameter (in)	Tail size required for Sized-up QuickTerm <sup>1</sup> (AWG / kcmil)	Tail size required for Size-for-size QuickTerm <sup>1</sup> (AWG / kcmil)
1/6-340	1/2	6	0.340	2	6
1/4-402	1/2	4	0.402	1/0	4
1/3-449	3/4	3	0.449	2/0	3
1/2-449	3/4	2	0.449	3/0	2
1/1-496	3/4	1	0.496	4/0	1
1/1/0-512	3/4	1/0	0.512	4/0	1/0
1/2/0-580	3/4	2/0	0.580	250	2/0
1/3/0-621	3/4	3/0	0.621	350	3/0
1/4/0-684	1	4/0	0.684	500	4/0
1/250-746 <sup>2</sup>	1-1/4	250	0.746	500 600	250
1/350-834 <sup>2</sup>	1-1/4	350	0.834	500 750	350
1/500-1000	1-1/4	500	1.000	750	500

<sup>1</sup> Stranded conductor tail to be supplied by contractor / installer.  
<sup>2</sup> Sized-up QuickTerm: select the appropriate tail size for application.

**PYROPAK TERMINATION KITS FOR COPPER-SHEATHED CABLES**

**Mastic sealing compound**



Termination type      Field termination (for two cable ends)  
 Pot type              Threaded pot/screw-on pot  
 Seal type              Mastic sealing compound  
 Temperature rating

Maximum Temperature	Mastic	Tail Sleeving	Area Classification
105°C (221°F)	Standard	PVC	Hazardous and nonhazardous

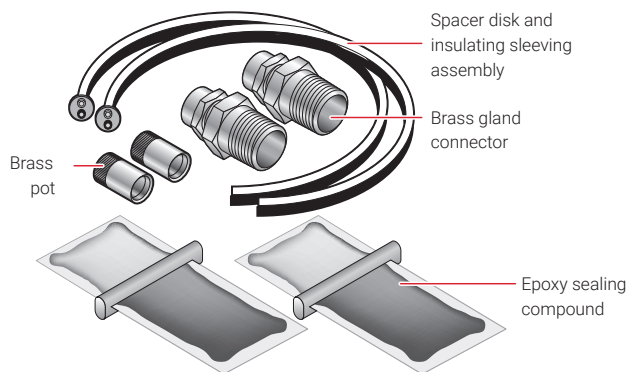
Gland connector      Brass  
 Gland size            1/2", 3/4", 1", or 1-1/4" NPT depending on cable size  
 Cable configurations    For single and multiconductor cables  
 Standard tail length    12 in (30 cm) or 36 in (91 cm) (If longer tail lengths are required, contact nVent)  
 Tail AWG size          16 AWG – 500 kcmil solid

**APPROVALS**



**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

**Epoxy sealing compound**



Termination type      Field termination (for two cable ends)  
 Pot type              Threaded pot/screw-on pot  
 Seal type              Epoxy sealing compound  
 Temperature rating

Maximum Temperature	Epoxy	Tail Sleeving	Area Classification
221°F (105°C)	Standard	PVC	Hazardous and nonhazardous
248°F (120°C)	Standard	Silicone fiberglass	Hazardous and nonhazardous
302°F (150°C)	Optional	Silicone fiberglass	Hazardous and nonhazardous
392°F (200°C)	Optional	Silicone fiberglass	Nonhazardous

Gland connector      Brass  
 Gland size            1/2", 3/4", 1", or 1-1/4" NPT depending on cable size  
 Cable configurations    For single and multiconductor cables  
 Standard tail length    12 in (30 cm) or 36 in (91 cm) (If longer tail lengths are required, contact nVent)  
 Tail AWG size          16 AWG – 500 kcmil solid

**APPROVALS**



**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

**Note: For field-terminated cables, tails are obtained by stripping back the cable sheath; refer to the product installation instructions for details.**

**PYROPAK KIT CATALOG NUMBER CONFIGURATOR FOR COPPER-SHEATHED CABLE**

**Imperial: PPAK / BR / 125 / T 1 G / 1000 / 105 / D1 / 01 / 500 / A036B012IN**  
**or**  
**Metric: PPAK / BR / M40 / T 1 G / 1000 / 105 / D1 / 01 / 500 / A091B030CM**

**PPAK**

**Gland material**

BR = Brass

**Gland thread size**

050 = 1/2 in.; M20 = 20 mm  
 075 = 3/4 in.; M25 = 25 mm  
 100 = 1 in.; M32 = 32mm  
 125 = 1-1/4 in.; M40 = 40mm  
 (see Table 2)

**Type of pot**

T = Threaded pot/screw-on pot

**Tail material**

1 = PVC \*  
 3 = Silicone fiberglass sleeving\*\*

**Sealing Compound**

G = Green mastic compound  
 A = Standard epoxy  
 D = Optional epoxy

**MI cable OD**

Example: 0449 = 0.449 in.  
 1000 = 1.000 in.  
 (see Table 2)

**Termination temperature rating (°C)**

105 = T1A  
 120 = T3A  
 105 = T1D  
 150 = T3D HAZ AREAS (200 = NON-HAZ. AREAS)  
 105 = T1G  
 105 = T3G

**Note:** Use temperature shown depending on pot, sleeving and sealing compound selected.

**Note:**

\* PVC sleeving is standard

\*\* Select Silicone fiberglass sleeving if termination will be exposed to temperatures between 105°C and 200°C

**Legend**

D1 = Division 1  
 D2 = Division 2  
 NA = Nonapproved  
 NH = Nonhazardous

**Tail length both ends & unit of measure**

**Imperial example:**

A036B012IN = 36" tail end "A", 12" tail end "B"

**Metric example:**

A091B030CM = 91 cm tail end "A", 30 cm tail end "B"

**Note:** A Pyropak kit includes material to terminate both ends of a cable run. Select tail length for each end.

**AWG or KCMIL size**

**Example:**

016 = 16 AWG  
 1-0 = 1/0 AWG  
 500 = 500 KCMIL  
 (see Table 2)

**Number of conductors**

**Example:**

01 = 1 conductor  
 04 = 4 conductors  
 10 = 10 conductors

**Area classification**

D1 = Class I, Div 1 & 2, Groups A, B, C & D  
 Class II, Div 1 & 2, Groups E, F & G  
 Class III  
 D2 = Class I, Div 2, Groups A, B, C & D  
 Class II, Div 2, Groups E, F & G  
 Class III

NA = Nonapproved

NH = Nonhazardous (select if temperature =200)

**Example:** Pyropak kit required for 4/14-465, four-conductor, # 14 AWG cable, for Class I, Div 1, with 12 in PVC insulated tails on both ends, and using standard epoxy sealing compound is:

**Catalog No.: PPAK / BR / 075 / T1A / 0465 / 105 / D1 / 04 / 014 / A012B012IN**

**TABLE 2 PYROPAK KIT CONFIGURATION INFORMATION FOR COPPER-SHEATHED CABLES**

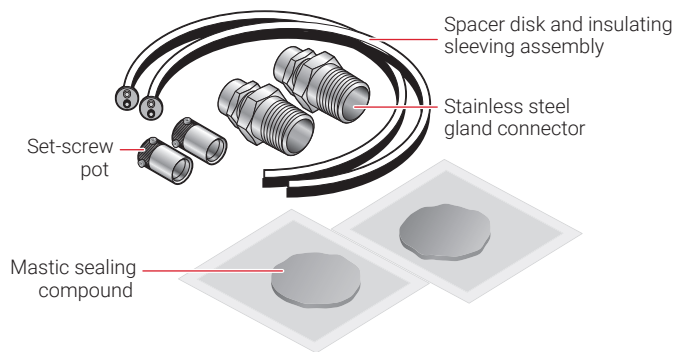
<b>System 1850 – Fire-rated MI cable</b>			
<b>MI Cable reference number</b>	<b>Gland thread size (in)</b>	<b>MI cable diameter (in)</b>	<b>MI cable size (AWG/kcmil)</b>
<b>Single conductor</b>			
1/10-277	1/2	0.277	10
1/8-298	1/2	0.298	8
1/6-340	1/2	0.340	6
1/4-402	1/2	0.402	4
1/3-449	3/4	0.449	3
1/2-449	3/4	0.449	2
1/1-496	3/4	0.496	1
1/1/0-512	3/4	0.512	1/0
1/2/0-580	3/4	0.580	2/0
1/3/0-621	3/4	0.621	3/0
1/4/0-684	1	0.684	4/0
1/250-746	1-1/4	0.746	250
1/350-834	1-1/4	0.834	350
1/500-1000	1-1/4	1.000	500
<b>Two conductor</b>			
2/16-340	1/2	0.340	16
2/14-371	1/2	0.371	14
2/12-402	1/2	0.402	12
2/10-449	3/4	0.449	10
2/8-512	3/4	0.512	8
2/6-590	3/4	0.590	6
2/4-684	1	0.684	4
2/3-768	1-1/4	0.768	3
2/2-865	1-1/4	0.865	2
2/1-975	1-1/4	0.975	1
<b>Three conductor</b>			
3/16-355	1/2	0.355	16
3/14-387	1/2	0.387	14
3/12-480	3/4	0.480	12
3/10-480	3/4	0.480	10
3/8-590	3/4	0.590	8
3/6-621	3/4	0.621	6
3/4-746	1-1/4	0.746	4
3/3-834	1-1/4	0.834	3
<b>Four conductor</b>			
4/16-387	1/2	0.387	16
4/14-465	3/4	0.465	14
4/12-465	3/4	0.465	12
4/10-590	3/4	0.590	10
4/8-590	3/4	0.590	8
4/6-730	1-1/4	0.730	6

**TABLE 2 PYROPAK KIT CONFIGURATION INFORMATION FOR COPPER-SHEATHED CABLES**

<b>System 1850 – Fire-rated MI cable</b>			
<b>MI Cable reference number</b>	<b>Gland thread size (in)</b>	<b>MI cable diameter (in)</b>	<b>MI cable size (AWG/kcmil)</b>
<b>Seven conductor</b>			
7/16-449	3/4	0.449	16
7/14-496	3/4	0.496	14
7/12-543	3/4	0.543	12
7/10-621	1	0.621	10
7/8-710	1-1/4	0.710	8
<b>Twisted pair (two conductor)</b>			
2/18-215T	1/2	0.215	18
2/16-246T	1/2	0.246	16
<b>Shielded twisted pair (two conductor)</b>			
2/18-324TS	3/4	0.324	18
2/16-364TS	3/4	0.364	16

**PYROPAK TERMINATION KITS FOR ALLOY 825 SHEATHED CABLES**

**Mastic sealing compound**



Termination type      Field termination  
 (for two cable ends)

Pot type                Set-screw pot

Seal type                Mastic sealing compound

Temperature rating

Maximum Temperature	Mastic	Tail Sleeving	Area Classification
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105°C (221°F)	Standard	PVC	Hazardous and nonhazardous
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Gland connector      Stainless steel

Gland size             1/2", 3/4", 1", or 1-1/4" NPT depending on cable size

Cable configurations    For single and multiconductor cables

Standard tail length    12 in (30 cm) or 36 in (91 cm)  
 (If longer tail lengths are required, contact nVent)

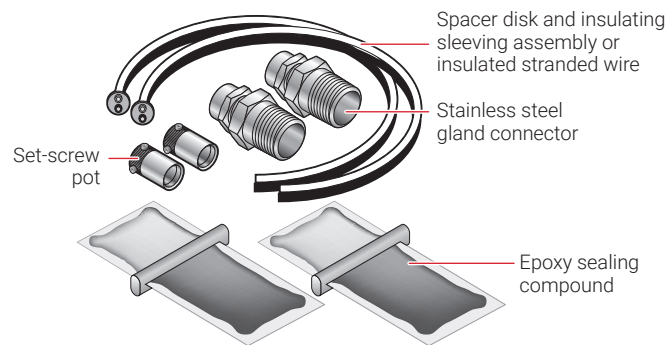
Tail AWG size            16 AWG – 2 AWG solid

**APPROVALS**



**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

**Epoxy sealing compound**



Termination type      Field termination  
 (for two cable ends)

Pot type                Set-screw pot

Seal type                Epoxy sealing compound

Temperature rating

Maximum Temperature	Epoxy	Tail Sleeving	Area Classification
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221°F (105°C)	Standard	PVC	Hazardous and nonhazardous
248°F (120°C)	Standard	High temperature insulated stranded wire or silicone fiberglass	Hazardous and nonhazardous
302°F (150°C)	Optional	High temperature insulated stranded wire or silicone fiberglass	Hazardous and nonhazardous
392°F (200°C)	Optional	High temperature insulated stranded wire or silicone fiberglass	Nonhazardous

Gland connector      Stainless steel

Gland size             1/2", 3/4", 1", or 1-1/4" NPT depending on cable size

Cable configurations    For single and multiconductor cables

Standard tail length    12 in (30 cm) or 36 in (91 cm) (If longer tail lengths are required, contact nVent)

**Note: High temperature insulated stranded wire is available in 16 AWG to 6 AWG sizes only.**

Tail AWG size            16 AWG – 2 AWG solid  
 (16 AWG to 6 AWG stranded when using high temperature insulated stranded wire tails)

**APPROVALS**



**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

**Note: For field-terminated cables using PVC or silicone fiberglass sleeving, tails are obtained by stripping back the cable sheath. High temperature insulated stranded wire tails must be brazed on to the MI cable solid conductor. Refer to the product installation instructions for details.**



**PYROPAK KIT CATALOG NUMBER CONFIGURATOR FOR ALLOY 825 SHEATHED CABLE**

**Metric:** PPAK / SS / M40 / G 1 A / 0700 / 105 / D1 / 10 / 014 / A091B030CM  
**or**  
**Imperial:** PPAK / SS / 125 / G 1 A / 0700 / 105 / D1 / 10 / 014 / A036B012IN

**PPAK**

**Gland material**

SS = Stainless steel

**Gland thread size**

050 = 1/2 in.; M20 = 20 mm .  
 075 = 3/4 in.; M25 = 25 mm .  
 100 = 1 in.; M32 = 32 mm  
 114 = 1-1/4 in.; M40 = 40 mm.  
 (see Table 3)

**Type of pots**

G = Grub screw pot (set-screw pot)  
 T = Threaded pot/screw-on pot

**Note:** "G" (set-screw pot) is standard. "T" (threaded pot) must be drilled out slightly larger than cable diameter and requires the use of oxy-acetylene equipment to install the pot.

**Tail material**

1 = PVC\*  
 2 = High temp. insulated stranded wire tails\*\*  
 3 = Silicone fiberglass\*\*\*

**Sealing Compound**

G = Green mastic compound  
 A = Standard epoxy  
 D = Optional epoxy

**MI cable OD**

**Example:** 0465 = 0.465 in.  
 0700 = 0.700 in.  
 (see Table 3)

**Termination temperature rating (°C)**

105 = T1A  
 120 = T2A  
 120 = T3A  
 105 = T1D  
 150 = T2D HAZ, AREAS (200 = NON-HAZ, AREAS)  
 150 = T3D HAZ, AREAS (200 = NON-HAZ, AREAS)  
 105 = T1G  
 105 = T3G  
 105 = G1A  
 120 = G2A  
 120 = G3A  
 105 = G1D  
 150 = G2D HAZ, AREAS (200 = NON-HAZ, AREAS)  
 150 = G3D HAZ, AREAS (200 = NON-HAZ, AREAS)  
 105 = G1G  
 105 = G3G

\* Use temperature shown depending on pot, sleeving and sealing compound selected.

**Note:**

- \* PVC sleeving is standard
- \*\* High temperature insulated stranded wire tails available for 16 AWG to 6 AWG sizes only and must be brazed to MI cable solid conductor (requires oxy-acetylene equipment)
- \*\*\* Select Silicone fiberglass sleeving instead of PVC sleeving if termination will be exposed to temperatures between 105°C and 200°C (oxy-acetylene equipment is not required)

**Legend**

D1 = Division 1  
 D2 = Division 2  
 NA= Nonapproved  
 NH= Nonhazardous

**Tail length both ends & unit of measure**

**Imperial example:**

A036B012IN = 36" tail end "A", 12" tail end "B"

**Metric example:**

A091B030CM = 91 cm tail end "A", 30 cm tail end "B"

**Note:** A Pyropak kit includes material to terminate both ends of a cable run. Select tail length for each end.

**AWG size**

**Example:**

016 = 16 AWG  
 002 = 2 AWG  
 (see Table 3)

**Number of conductors**

**Example:**

04 = 4 conductors  
 10 = 10 conductors

**Area classification**

D1 = Class I, Div 1 & 2, Groups A, B, C & D  
 Class II, Div 1&2, Groups E, F & G  
 Class III

**Note:** For D1 locations, epoxy sealing compound is normally supplied.

D2 = Class I, Div 2, Groups A, B, C & D  
 Class II, Div 2, Groups E, F & G  
 Class III

NA = Nonapproved

NH = Nonhazardous (select if temperature = 200)

**Example:** Pyropak kit required for 590-8/2NC825, two-conductor, # 8 AWG cable, for Class I, Div 1, with 12 in PVC insulated tails on both ends, and using set-screw pot filled with standard epoxy sealing compound is:

**Catalog No.:** PPAK / SS / 100 / G1A / 0590 / 105 / D1 / 02 / 008 / A012B012IN

**TABLE 3 PYROPAK KIT CONFIGURATION INFORMATION FOR ALLOY 825 SHEATHED CABLES**

<b>System 2000 – Fire-rated MI cable</b>			
<b>MI Cable reference number</b>	<b>Gland thread size (in)</b>	<b>MI cable diameter (in)</b>	<b>MI cable size (AWG)</b>
<b>Single conductor</b>			
253-14/1NC825	1/2	0.253	14
286-12/1NC825	1/2	0.286	12
319-10/1NC825	1/2	0.319	10
355-8/1NC825	1/2	0.355	8
387-6/1NC825	1/2	0.387	6
434-4/1NC825	3/4	0.434	4
480-3/1NC825	3/4	0.480	3
527-2/1NC825	3/4	0.527	2
<b>Two conductor</b>			
418-14/2NC825	3/4	0.418	14
465-12/2NC825	3/4	0.465	12
527-10/2NC825	3/4	0.527	10
590-8/2NC825	1	0.590	8
<b>Three conductor</b>			
418-16/3NC825	3/4	0.418	16
465-14/3NC825	3/4	0.465	14
496-12/3NC825	3/4	0.496	12
543-10/3NC825	3/4	0.543	10
637-8/3NC825	1	0.637	8
<b>Four conductor</b>			
496-14/4NC825	3/4	0.496	14
527-12/4NC825	3/4	0.527	12
590-10/4NC825	1	0.590	10
684-8/4NC825	1	0.684	8
<b>Seven conductor</b>			
590-14/7NC825	1	0.590	14
637-12/7NC825	1	0.637	12

**TABLE 3 PYROPAK KIT CONFIGURATION INFORMATION FOR ALLOY 825 SHEATHED CABLES**

<b>System 2200 – Fire-rated MI cable</b>			
<b>MI Cable reference number</b>	<b>Gland thread size (in)</b>	<b>MI cable diameter (in)</b>	<b>MI cable size (AWG)</b>
<b>Two conductor</b>			
355-16/2NI825	1/2	0.355	16
402-14/2NI825	1/2	0.402	14
<b>Three conductor</b>			
387-16/3NI825	1/2	0.387	16
418-14/3NI825	3/4	0.418	14
434-13/3NI825	3/4	0.434	13
465-12/3NI825	3/4	0.465	12
527-10/3NI825	3/4	0.527	10
<b>Four conductor</b>			
465-14/4NI825	3/4	0.465	14
496-12/4NI825	3/4	0.496	12
590-10/4NI825	1	0.590	10
637-8/4NI825	1	0.637	8
<b>Five conductor</b>			
590-11/5NI825	1	0.590	11
714-7/5NI825	1-1/4	0.714	7
810-5/5NI825	1-1/4	0.810	5
<b>Seven conductor</b>			
496-16/7NI825	3/4	0.496	16
543-14/7NI825	1	0.543	14
590-13/7NI825	1	0.590	13
<b>Eight conductor</b>			
684-11/8NI825	1	0.684	11
<b>Ten conductor</b>			
700-14/10NI825	1-1/4	0.700	14

**FIRE PROTECTION HUB FOR ALLOY 825 SHEATHED CABLE TERMINATIONS**



Temperature rating 2000°F (1093°C) for 30 minutes based on UL 1709 rapid-rise time-temperature curve when subjected to a heat flux of 65,000 BTU/ft<sup>2</sup> hr (200 kW/m<sup>2</sup>)

Cable configurations For all single and multiconductor Alloy 825 sheath cables

Material Intumescent epoxy

Dimensions 6 in long x 3.5 in diameter (15.2 cm long x 8.9 cm diameter)

Order reference	Description
KMHUB215-293	Gland protector for 0.215" - 0.293" OD cable
KMHUB294-418	Gland protector for 0.294" - 0.418" OD cable
KMHUB419-500	Gland protector for 0.419" - 0.500" OD cable
KMHUB500-543	Gland protector for 0.501" - 0.543" OD cable
KMHUB544-605	Gland protector for 0.544" - 0.605" OD cable
KMHUB606-730	Gland protector for 0.606" - 0.730" OD cable
KMHUB731-855	Gland protector for 0.731" - 0.855" OD cable

**Note: Specify MI cable reference number along with fire protection hub order reference when ordering this part.**

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