



Energy Division

GelWrap Wrap-Around Splice Cover (1000V)

Tyco Electronic's GelWrap closure sleeves quickly and conveniently insulate and seal buried electrical connections rated up to 1000 volts. The robust, yet compact, design is engineered to handle the harsh environments of direct burial and manhole applications. GelWrap sleeves are equally well suited for insulation and jacket repair.

Features

- Installers will appreciate the simple wraparound design and dependable gel sealing performance. Simply wrap and snap the sleeve on any cable in the use range. The gel in the sleeve seals on contact. Installation is literally a snap.

- The factory cured silicone gel sealant in the GelWrap sleeve completely encapsulates the connection. Moisture cannot enter the splice.
- PowerGel sealing gel was specifically developed for the electrical power industry. PowerGel sealing gel is hydrophobic and provides an excellent moisture seal over a wide operating temperature range (-40°C to 95°C).

It is compatible with solid dielectric cable insulations.

Other common uses for GelWrap sleeves

- LV cable repair splices
- MV cable jacket repair
- MV splice re-jacketing
- Elbow sealing sleeve

 **Tyco Electronics**

Our commitment. Your advantage.

Selection Information: Dimensions in Inches (millimeters)

Product Selection:

Kit Description	Sleeve Length	Conductor Size	Maximum Connector Opening	General Use Diameter Range
GelWrap-18/4-100	4.0 (100)	#12 - 4/0 (4 - 95)	1.0 (25)	0.15 - 0.70 (4- 8)
GelWrap-18/4-150	6.0 (150)	#12 - 4/0 (4 - 95)	3.0 (75)	0.15 - 0.70 (4-18)
GelWrap-18/4 -200	8.0 (200)	#12 - 4/0 (4 - 95)	5.0 (125)	0.15 - 0.70 (4-18)
GelWrap-18/4-250	10.0 (250)	#12 - 4/0 (4 - 95)	7.0 (175)	0.15 - 0.70 (4-18)
GelWrap-18/4-300	12.0 (300)	#12 - 4/0 (4 - 95)	9.0 (225)	0.15 - 0.70 (4-18)
GelWrap-33/10-150	6.0 (150)	#2 - 500 (35 - 240)	2.0 (50)	0.40 - 1.30 (10-33)
GelWrap-33/10-200	8.0 (200)	#2 - 500 (35 - 240)	4.0 (100)	0.40 - 1.30 (10-33)
GelWrap-33/10-250	10.0 (250)	#2 - 500 (35 - 240)	6.0 (150)	0.40 - 1.30 (10-33)
GelWrap-33/10-300	12.0 (300)	#2 - 500 (35 - 240)	8.0 (200)	0.40 - 1.30 (10-33)
GelWrap-33/10-350	14.0 (350)	#2 - 500 (35 - 240)	10.0 (250)	0.40 - 1.30 (10-33)
GelWrap-50/20-200	8.0 (200)	250 - 750	2.0 (50)	0.80 - 1.50 (20-38)
GelWrap-50/20-250	10.0 (250)	250 - 750	4.0 (100)	0.80 - 1.50 (20-38)
GelWrap-50/20-300	12.0 (300)	250 - 750	6.0 (150)	0.80 - 1.50 (20-38)
GelWrap-50/20-350	14.0 (350)	250 - 750	8.0 (200)	0.80 - 1.50 (20-38)
GelWrap-50/20-400	16.0 (400)	250 - 750	10.0 (250)	0.80 - 1.50 (20-38)

Maximum Mechanical Connector Dimensions:
Figure (A)

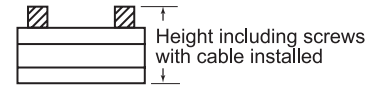


Figure (B)

UL Listed:

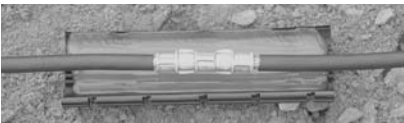
Kit Description	Sleeve Length	1000V Cable Range	Maximum Connector Opening	Max. Compression Connector Diameter	Maximum Mechanical Connector Dimensions	
					Height (A)	Width (B)
GelWrap-18/4-150UL	6.0" (150mm)	#14-4/0 AWG	2.0" (50mm)	0.85" (22mm)	1.2 (30mm)	1.1 (28mm)
GelWrap-18/4-200UL	8.0" (200mm)	#14-4/0 AWG	4.0" (100mm)	0.85" (22mm)	1.2 (30mm)	1.1 (28mm)
GelWrap-18/4-250UL	10.0" (250mm)	#14-4/0 AWG	6.0" (150mm)	0.85" (22mm)	1.2 (30mm)	1.1 (28mm)
GelWrap-18/4-300UL	12.0" (300mm)	#14-4/0 AWG	8.0" (200mm)	0.85" (22mm)	1.2 (30mm)	1.1 (28mm)
GelWrap-18/4-350UL	14.0" (350mm)	#14-4/0 AWG	10.0" (250mm)	0.85" (22mm)	1.2 (30mm)	1.1 (28mm)
GelWrap-18/4-400UL	16.0" (400mm)	#14-4/0 AWG	12.0" (300mm)	0.85" (22mm)	1.2 (30mm)	1.1 (28mm)
GelWrap-18/4-450UL	18.0" (450mm)	#14-4/0 AWG	14.0" (350mm)	0.85" (22mm)	1.2 (30mm)	1.1 (28mm)
GelWrap-18/4-500UL	20.0" (500mm)	#14-4/0 AWG	16.0" (400mm)	0.85" (22mm)	1.2 (30mm)	1.1 (28mm)
GelWrap-18/4-550UL	22.0" (550mm)	#14-4/0 AWG	18.0" (450mm)	0.85" (22mm)	1.2 (30mm)	1.1 (28mm)
GelWrap-18/4-600UL	24.0" (600mm)	#14-4/0 AWG	20.0" (500mm)	0.85" (22mm)	1.2 (30mm)	1.1 (28mm)

Note: For other sizes or application, a minimum seal length is required on each side of connector opening or jacket damage.

Use these Guidelines for Minimum Seal Distance:

- GelWrap 18/4 Series 1.5" (38mm)
- GelWrap 33/10 Series 2.0" (51mm)
- GelWrap 50/20 Series 3.0" (75mm)

Installation Instructions



1. Center GelWrap sleeve over connector.

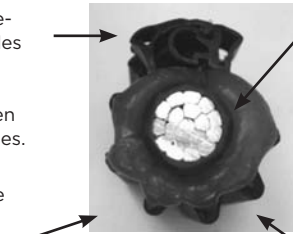


2. Wrap sleeve around connector and shut snap locks over entire length of sleeve.



3. Install cable ties at outermost notches of snap lock. Splice is complete.

Snap-lock made of impact resistant polypropylene provides secure installation. Latch is geometrically designed to provide easy installation, even when wearing insulated gloves.



Both the gel and housing are UV resistant and suitable for overhead applications.

Silicone gel is a high dielectric strength insulation that completely encapsulates the connection. The result is an excellent water seal. PowerGel sealing gel is specially formulated for high temperature environments.

Elastomer cover material combines outstanding tear strength, abrasion resistant, and chemical resistance with excellent flexibility and range-taking.

Product Performance

The Tyco Electronics GelWrap sleeve meets the following requirements:

Testing	Test Conditions
ANSI C119.1 - 1986	600V insulated underground
Chemical Resistance	Fluid immersion, 168 hours @ 23°C, 75% elongation retention minimum
	- 10W-40 motor oil
	- 10% hydrochloric acid
	- 15% sodium chloride
	- 20% sodium hydroxide
	- ETX 60280 antifreeze (1000 hours)
Accelerated Aging	1000 hours @ 135°C
	- 93% retention tensile strength
RUS Acceptance pending	- 82% retention elongation at break

Tyco Electronics Corporation
8000 Purfoy Road
Fuquay Varina, NC 27526-9349
Tel: 800.327.6996
Tel: 800.527.8350
E-mail: naenergy@tycoelectronics.com
http://energy.tycoelectronics.com/powergel
www.tycoelectronics.com

Copyright 2005, 2007, 2009
Tyco Electronics Corporation. All rights reserved.
1309100 E157 03/09

All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct and reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance of any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for these products is set forth in our standard terms and conditions of sale. GelWrap, PowerGel, TE logo and Tyco Electronics are trademarks.

Energy Division - a pioneer in the development of economical solutions for the electrical power industry. Our product range includes: Cable accessories, connectors & fittings, electrical equipment, instruments, lighting controls, insulators & insulation enhancement and surge arresters.