

# tyco

Electronics

Energy Division

## GelWrap Wrap-around Splice Cover

Tyco Electronic's GelWrap sleeves quickly and conveniently insulate and seal buried electrical connections rated up to 600 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.

### Fast and easy installation:

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 GelWrap sleeve can be applied on all common compression connectors and low voltage cables.

### Dependable performance:

The factory cured silicone gel sealant in the GelWrap sleeve completely encapsulates the connection. Since the gel is easily stretched and very sticky, it basically forms around the cable and connector sticking to everything including itself. Moisture cannot enter the splice.

### PowerGel sealant:

PowerGel sealant was specifically developed for the electrical power industry. It consists of a chemically cross linked silicone elastomer swollen with a silicone oil. PowerGel sealant 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 and connector deoxidizing greases and has excellent insulation properties.



### Innovative design:

The GelWrap sleeve design employs a combination of gels and elastomers to achieve great cable and connector range taking. It consists of a flexible, corrugated housing extruded from a thermoplastic elastomer and coated with a uniform thickness of PowerGel silicone sealant. A rigid polypropylene snap lock is co-extruded along the length of the sleeve to secure the installation.

Other common uses for GelWrap sleeves:

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

Raychem

## Product Selection

Kit Description	Sleeve Length	Conductor Size (mm <sup>2</sup> )	Maximum Connector Opening	General Use Diameter Range
GelWrap 18/4 – 200	8.0" (204mm)	#12 – 4/0 (4 – 95mm <sup>2</sup> )	5.0" (127mm)	0.15" – 0.70" (4 – 18mm)
GelWrap 33/10 – 250	10.0" (255mm)	#2 – 500 (35-240mm <sup>2</sup> )	6.0" (152mm)	0.40" – 1.30" (10-33mm)

### Patent Pending

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)

## Installation Instructions



1. Center GelWrap sleeve over connector.



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



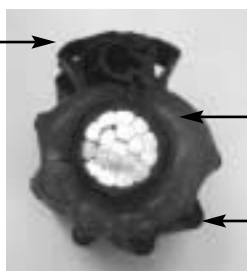
3. Install cable ties at outermost notches of snap lock. Splice is complete.

## 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
	- 82% retention elongation at break

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



Silicone gel is a high dielectric strength insulation that completely encapsulates the connection. The result is an excellent water seal. PowerGel sealant 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.

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. ALR, AMP, AXICOM, B&H, Bowthorpe EMP, Critchley, Dorman Smith, Dulmison, Hellstern, La Prairie, Morlynn, Raychem, and SIMEL are trademarks of Tyco Electronics Corporation.

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