

CERTIFICATE OF COMPLIANCE

Certificate Number 20170918-E91151
Report Reference E91151-20041213
Issue Date 2017-SEPTEMBER-18

Issued to: TYCO ELECTRONICS CORP
2901 FULLING MILL RD
MIDDLETOWN PA 17057-3170

**This is to certify that
representative samples of**

SEALED WIRE-CONNECTOR SYSTEMS

Insulating, Splicing Sleeves for Underground Conductors, Part Nos. GelWrap, followed by 18/4, followed by followed by a three or four digit numeric code, followed by UL, may be followed by a three digit alphanumeric code, may be followed by SGL or the letter B and a two digit number; Part Nos. GelWrap-UF-250UL and GELWRAP-UFXT-450UL, may be followed by a three digit alphanumeric code, may be followed by SGL or the letter B and a two digit number; all model numbers may have a 4 digit alphanumeric prefix.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL486D, Standard for Sealed Wire Connector Systems
CSA C22.2 No. 198.2-05, Standard for Sealed Wire Connector Systems

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



DESCRIPTION

PRODUCT COVERED:

USL, CNL -Insulating, Splicing Sleeves for Underground Conductors, Part Nos. GelWrap, followed by 18/4, followed by **followed by a three or four digit numeric code**, followed by UL, may be followed by a three digit alphanumeric code, may be followed by SGL or the letter B and a two digit number; Part Nos. GelWrap-UF-250UL and GELWRAP-UFXT-450UL, may be followed by a three digit alphanumeric code, may be followed by SGL or the letter B and a two digit number; all model numbers may have a 4 digit alphanumeric prefix.

RATINGS:

18/4 Models

Voltage Rating: 600 V,

Wire Range - 14-4/0 AWG

Models GelWrap-UF-250UL and GELWRAP-UFXT-450UL

Voltage Rating - 600 V

Wire Range - Nos. 14-8 AWG, two or three conductors plus a ground UF cable; copper wire only.

Tightening Torque - For models incorporating Unlisted Component Terminal Block UFCH - 8 **in** lb; For models incorporating Unlisted Component Terminal Block R-795 - 7 **in** lb; For models incorporating Unlisted Component Terminal Block R-1661 - 15 **in** lb

Wire Strip Length - For models incorporating Unlisted Component Terminal Block UFCH - 5/8 in.; For models incorporating Unlisted Component Terminal Block R-795 or R-1661 - 1/2 in.

ENGINEERING CONSIDERATION (NOT FOR FIELD REPRESENTATIVE'S USE):

18/4 models are wrap around gel filled splice sleeves which consist of two materials for outer body and gel. They are intended to be installed over Listed, crimp-type, splicing wire connectors with Listed stainless steel tie wraps. The connectors are not supplied with the system. Models Part Nos. Gelwrap-UF-250UL and GELWRAP-UFXT-450UL are kits which are supplied with connectors.

* USL indicates investigation to the Standard for Insulated Wire Connector Systems for Underground Use or in Damp or Wet Locations, UL **486D**.

CNL indicates investigation to the following Canadian Standards:

CAN/CSA C22.2 No. 0-M91- General Requirements - Canadian Electrical Code, Part II

CAN/CSA C22.2 No. 198.2-M1986 - Underground Cable Splicing Kits

NOMENCLATURE:

(a) GelWrap- (b)- (c)- **UL** - (d) - (**e**)

(a) - Four digit alphanumeric prefix designating customer specific packaging or private label (optional)

Basic Cat. No. - GelWrap

(b) - Size/type* 18/4**(c) Three or four digit numeric code - sleeve length in millimeters****UF-250****UFXT-450****(d) - Three digit alphanumeric code designating customer specific packaging or private label (optional)****(e) - Bxx - Quantity in box**Ex. (B10) indicates box of 10 (optional)SGL - single unit in package (optional)

CONSTRUCTION DETAILS:

General -

Markings - The following shall be marked, in its entirety, on the tubing unit container or on an information sheet provided in each unit container.

For All Part Nos.:

1. Listee's name or Tradename "Raychem".
2. Cat No.
3. Maximum dimensions of the Listed connectors intended to be used with the wraps(18/4 models only).
4. Statement indicating that the specific crimping tool recommended by the Listed connector manufacturer shall be used(18/4 models only).
5. Statement indicating that the system has been found acceptable for insulating a pressure wire connector and is intended for burial directly in the earth.
6. Electrical rating (600 V)
7. Wire Range

Additional For Part Nos. GelWrap-UF-250UL and GELWRAP-UFXT-450UL:

1. Wire Range and Type(as specified in ratings section)
2. Tightening torque(either "8 **in-lbs**", "7 **in-lbs**" or "15 **in-lbs**" as specified in ratings section)
3. Wire Strip Length(either "1/2 in" or "5/8 in" as specified in ratings section)

The following optional markings may also be included on all models:

1. "Submersible"

INSTALLATION INSTRUCTIONS:

Provided with each unit container. Refer to Ill. 1 for example.

Installation instructions for 18/4 models shall include the following items along **with items 1 -3**(or the equivalent) in Ill.1

- 1.)Max Compression Connector diameter - 0.85 in. (22 mm)
- 2.)Max Mechanical Connector Dimensions(H x W): 1.2 x 1.1 in.(30 x 28 mm)
- 3.)Minimum Seal Length: 2 in.(50 mm) along with an image of how to determine seal length measurements

Installation instructions for models GelWrap-UF-250UL and GELWRAP-UFXT-450UL shall include the following items along with items 1 -3(or the equivalent) in Ill.1

- 1)Minimum Seal Length: 2-1/2 in.(75 mm) along with an image of how to determine seal length measurements