

RayOLOn Kits

Roll-On Sealing Sleeve

Product Facts

- A Raychem heatless sealing solution
- Re-useable sealing solution
- Roll-on to seal, roll-off to re-enter
- Enhanced sealing with gel strips
- Protection of connectors and splices against corrosion
- Available in many conveniently packaged kits



Applications

RayOLOn re-useable roll-on sealing sleeves are a family of products designed to protect connectors, electrical cable splices, and other cylindrical substrates from harsh environmental elements like salt spray and water moisture. RayOLOn sleeves are a part of Raychem's "heatless" sealing products that require no

heat guns or torches. This is useful in the areas where the use of motorized heat sources or open flames are prohibited or undesirable.

RayOLOn sealing sleeves provide the sealing of the substrates by simply rolling the sleeve over the area to be protected. If the substrate requires servicing, the sleeve can be rolled off to provide access to the

component under the sleeve. After the service is completed, the sleeve can be rolled on the part again to provide the protection. This operation may be done many times throughout the life of the sleeve providing time and material cost savings.

Operating Temperature Range

-40°C to 70°C  
[-40°F to 158°F]

Specifications and Approvals

|         |         |
|---------|---------|
| Raychem | RW 3031 |
|---------|---------|

Temperature Ratings

|  |                                |
|--|--------------------------------|
| Continuous operating temperature range | -40°C to 70°C [-40°F to 158°F] |
| Short term temperature exposure        | -63°C to 90°C [-81°F to 194°F] |
| Minimum installation                   | -25°C [-13°F]                  |

Sleeve Dimensions  
Inches (millimeters)

| Base Part No. | Available Kits       | Dimensions (Reference) |             | Recommended Use Range | Connection Length |
|---------------|----------------------|------------------------|-------------|-----------------------|-------------------|
|               |                      | Diameter               | Lengths     |                       |                   |
| LNCL-11-125   | GK                   | 0.51 [13.0]            | 4.92 [125]  | 0.22 - 0.68 [6 - 17]  | 3.00 [75]         |
| LNCL-11-205   | GK                   | 0.51 [13.0]            | 8.07 [205]  | 0.22 - 0.68 [6 - 17]  | 6.00 [150]        |
| LNCL-12-140   | GK, CK-N             | 0.56 [14.2]            | 5.51 [140]  | 0.48 - 0.90 [12 - 23] | 4.00 [100]        |
| LNCL-12-240   | GK, CK-N             | 0.56 [14.2]            | 9.45 [240]  | 0.48 - 0.90 [12 - 23] | 7.00 [175]        |
| LNCL-13-155   | GK, TK-8             | 0.75 [19.0]            | 6.10 [155]  | 0.69 - 1.20 [18 - 30] | 4.00 [100]        |
| LNCL-13-305   | GK                   | 0.75 [19.0]            | 12.00 [305] | 0.69 - 1.20 [18 - 30] | 9.00 [225]        |
| LNCL-14-185   | GK, TK-7             | 1.02 [25.9]            | 7.28 [185]  | 0.96 - 1.50 [25 - 38] | 5.00 [125]        |
| LNCL-14-355   | GK                   | 1.02 [25.9]            | 14.00 [355] | 0.96 - 1.50 [25 - 38] | 10.0 [250]        |
| LNCL-15-185   | GK, TK-1, TK-5, TK-6 | 1.45 [36.8]            | 7.28 [185]  | 1.40 - 2.00 [36 - 46] | 5.00 [125]        |
| LNCL-15-260   | GK, SS               | 1.45 [36.8]            | 10.2 [260]  | 1.40 - 2.00 [36 - 46] | 7.50 [190]        |
| LNCL-15-450   | GK, SS               | 1.45 [36.8]            | 17.72 [450] | 1.40 - 2.00 [36 - 46] | 12.0 [300]        |

Refer to Raychem specification control drawing LNCL-XX-125 thru LNCL-XX-450 for more details.  
\*Tyco Electronics Gel and Sealant product information available at [www.tycoelectronics.com](http://www.tycoelectronics.com)

Typical RayOLOn Roll-On Sealing Sleeve Properties

RayOLOn Kits (Continued)

|                       | Property                                    | Performance                   | Test method |
|-----------------------|---|-------------------------------|-------------|
| Physical/<br>Chemical | Tensile strength                            | 8.3 MPa (1200 psi) minimum    | ASTM D 2671 |
|                       | Ultimate elongation                         | 100 % minimum                 | ASTM D 412  |
|                       | Density                                     | 1.1 g/cm <sup>3</sup> maximum | ASTM D 792  |
|                       | Water absorption<br>24 hours at 23°C [73°F] | 0.5 % maximum                 | ASTM D 570  |
|                       | Flammability                                | 40 mm/min maximum             | ASTM D 635  |
| Electrical            | Dielectric strength                         | 90 kV/cm (225 V/mil) minimum  | ASTM D 149  |
|                       | Volume resistivity                          | 1x10 <sup>12</sup> Ω-cm       | ASTM D 257  |

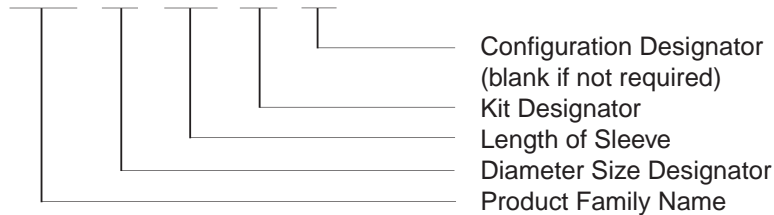
Refer to Raychem specification RW3031 for more requirements and performance information.

Notes:

1. The sleeve is not intended to be heated during the installation process.
2. DO NOT CUT LNCL roll-on sealing sleeve.
3. In case of a conflict between this data sheet and RW3031, RW3031 takes precedence.
4. Not recommended for extended exposure to hydrocarbon based fuel or fluids.

Part Numbering System

**LNCL - XX - XXX - XX - XX**



Kits

|                            |  |
|----------------------------|--|
| GK—General kit:            | Roll-on sleeve, gel strip, cable tie, core tube, installation instruction              |
| CK—Connector sealing kit:  | Roll-on sleeve, cable tie, connector flange cover, gel strip, installation instruction |
| TK—Panel boot sealing kit: | Roll-on sleeve, ferrule, gel strip, cable tie, installation instruction                |
| SS—Ship-or-shore kit:      | Roll-on sleeve, connection shield, installation instruction                            |

Note: Not all sizes and lengths are available for all kit combinations. Please refer to the table on the previous page.