

TECHNICAL DATA SHEET - INTERACTIVE PDF

Ranger® Series 2900 Steel Cord Connectors

Liquid-tight strain relief

T&B Liquidtight Systems®



01



02



03

01 2900 Series (Straight)
02 4900 Series (45°)
03 4960 Series (90°)

Features & Benefits:

- Extended range with strain relief
- Cord ranges: 0.125" - 0.950"
- Available in straight, 45°, and 90° fittings
- NPT threads
- Reduced overall size provides easy fit into tighter spaces
- Gland nut designed to reduce cable bending
- Extended cable range enables reduction in inventory and installation time
- Neoprene bushing helps provide liquid-tight installation

Applications:

- Provides the means to secure round flexible cord or power cable to a box or enclosure and provide strain relief
- Forms a mechanical grip & water-tight seal when assembled with round flexible cord or power cable
- Forms a non-slip connection or termination for round flexible cord or power cable
- Cord and cable types:
 - S, S0, SV, ST, STD, SJ, SJ0, SJT, SJTO, SVD

Liquid-tight strain relief cord connectors for use in wet or dry environments

Certifications / Standards:



[3-Part Specification 26 05 33.24](#)

[Tools & Calculators](#)

Conforms to:

- UL 514B, Fittings for Cable and Conduit
 - File: E13938
- CSA 22.2 No. 18.3, Conduit, Tubing and Cable Fittings
 - File: LR-4484, LR-52391
- RoHS (Restriction of Hazardous Substance)
 - European Directive 2011/65 and Commission Delegated Directive 2015/863

Material

- Series 2900 (straight): Die-cast zinc alloy
- Series 4900 (45°) & Series 4960 (90°): Malleable iron
- Gland nut: Zinc-plated steel
- Bushing: Neoprene
- Retaining ring: Thermoplastic nylon
- O-Ring: Vydne
- Standard finish: Zinc plated and chromate coated

Ranger® Series 2900 Steel Liquid-tight Strain Relief Cord Connectors

Product selection

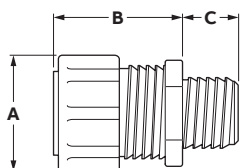
| Trade Size | | | Thread Type | | Cable Range | | | |
|------------|------|-----------|-------------|------|----------------|----------------|----------------|----------------|
| UL | CSA | ISO BS EN | Standard | Size | Cable Diameter | Straight | 45° | 90° |
| Inches | mm | mm | | | | Product number | Product number | Product number |
| ½" | 16mm | 20mm | NPT | ½" | .125 - .375 | 2920-TB | 4920 | 4960 |
| ½" | 16mm | 20mm | NPT | ½" | .310 - .560 | 2921 | 4921 | 4961 |
| ½" | 16mm | 20mm | NPT | ½" | .500 - .750 | 2922 | 4922 | 4962 |
| ¾" | 21mm | 25mm | NPT | ¾" | .125 - .375 | 2930 | - | 4970 |
| ¾" | 21mm | 25mm | NPT | ¾" | .310 - .560 | 2931 | 4931 | 4971 |
| ¾" | 21mm | 25mm | NPT | ¾" | .500 - .750 | 2932 | 4932 | 4972 |
| 1" | 27mm | 32mm | NPT | 1" | .310 - .560 | 2940 | - | 4980 |
| 1" | 27mm | 32mm | NPT | 1" | .500 - .750 | 2941 | - | - |
| 1" | 27mm | 32mm | NPT | 1" | .700 - .950 | 2942 | - | - |

Note: Product must be installed in accordance with applicable national and local electrical codes.

Dimensions (approximate)

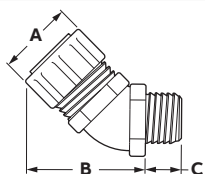
| Drawing | Trade Size | | | | Inches | | | Millimeters | | | Weight | |
|---------|------------|-----|-----------|------------|--------|---|---|-------------|---|---|--------|----|
| | UL | CSA | ISO BS EN | Cable Dia. | | | | | | | | |
| | inches | mm | mm | inches | A | B | C | A | B | C | lbs | kg |

Steel liquid-tight Straight Strain Relief Connectors



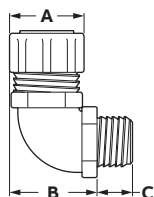
| | | | | | | | | | | | |
|----|------|------|-------------|------|------|------|------|------|------|------|------|
| ½" | 16mm | 20mm | .125 - .375 | 1 ½" | 1 ½" | 5/8" | 28.5 | 28.6 | 15.8 | 0.14 | 0.06 |
| ½" | 16mm | 20mm | .310 - .560 | 1 ½" | 1 ½" | 5/8" | 28.5 | 28.6 | 15.8 | 0.14 | 0.06 |
| ½" | 16mm | 20mm | .500 - .750 | 1 ½" | 1 ½" | 5/8" | 34.9 | 28.6 | 15.8 | 0.17 | 0.07 |
| ¾" | 21mm | 25mm | .125 - .375 | 1 ¾" | 1 ¾" | 5/8" | 34.9 | 29.4 | 15.8 | 0.19 | 0.08 |
| ¾" | 21mm | 25mm | .310 - .560 | 1 ¾" | 1 ¾" | 5/8" | 34.9 | 29.4 | 15.8 | 0.12 | 0.05 |
| ¾" | 21mm | 25mm | .500 - .750 | 1 ¾" | 1 ¾" | 5/8" | 34.9 | 29.4 | 15.8 | 0.19 | 0.08 |
| 1" | 27mm | 32mm | .310 - .560 | 1 ¾" | 1" | ¾" | 34.9 | 25.3 | 19.1 | 0.23 | 0.10 |
| 1" | 27mm | 32mm | .500 - .750 | 1 ¾" | 1" | ¾" | 34.9 | 25.3 | 19.1 | 0.22 | 0.09 |
| 1" | 27mm | 32mm | .700 - .950 | 1 ¾" | 1" | ¾" | 41.2 | 23.0 | 24.6 | 0.37 | 0.16 |

Steel liquid-tight 45° Strain Relief Connectors



| | | | | | | | | | | | |
|----|------|------|-------------|------|------|--------|------|------|------|------|------|
| ½" | 16mm | 20mm | .125 - .375 | 1 ½" | 1 ½" | 47/64" | 28.5 | 33.3 | 18.6 | 0.19 | 0.08 |
| ½" | 16mm | 20mm | .310 - .560 | 1 ½" | 1 ½" | 47/64" | 28.5 | 33.3 | 18.6 | 0.19 | 0.08 |
| ½" | 16mm | 20mm | .500 - .750 | 1 ½" | 1 ½" | 47/64" | 34.9 | 36.5 | 18.6 | 0.23 | 0.10 |
| ¾" | 21mm | 25mm | .125 - .375 | 1 ¾" | 1 ¾" | 5/8" | 34.9 | 36.5 | 15.8 | 0.31 | 0.14 |
| ¾" | 21mm | 25mm | .310 - .560 | 1 ¾" | 1 ¾" | 5/8" | 34.9 | 36.5 | 15.8 | 0.30 | 0.13 |
| ¾" | 21mm | 25mm | .500 - .750 | 1 ¾" | 1 ¾" | 5/8" | 34.9 | 36.5 | 15.8 | 0.28 | 0.12 |

Steel liquid-tight 90° Strain Relief Connectors



| | | | | | | | | | | | |
|----|------|------|-------------|------|--------|--------|------|------|------|------|------|
| ½" | 16mm | 20mm | .125 - .375 | 1 ½" | 1 ¾" | 5/8" | 28.5 | 44.4 | 15.8 | 0.24 | 0.10 |
| ½" | 16mm | 20mm | .310 - .560 | 1 ½" | 1 ¾" | 5/8" | 28.5 | 44.4 | 15.8 | 0.23 | 0.10 |
| ½" | 16mm | 20mm | .500 - .750 | 1 ½" | 1 ¾" | 5/8" | 34.9 | 34.5 | 15.8 | 0.29 | 0.13 |
| ¾" | 21mm | 25mm | .125 - .375 | 1 ¾" | 1 ¾" | 5/8" | 34.9 | 45.2 | 17.4 | 0.05 | 0.02 |
| ¾" | 21mm | 25mm | .310 - .560 | 1 ¾" | 1 ¾" | 5/8" | 34.9 | 45.2 | 17.4 | 0.40 | 0.18 |
| ¾" | 21mm | 25mm | .500 - .750 | 1 ¾" | 1 ¾" | 5/8" | 34.9 | 45.2 | 17.4 | 0.32 | 0.14 |
| 1" | 27mm | 32mm | .310 - .560 | 1 ¾" | 2 1/8" | 1 3/8" | 34.9 | 51.5 | 20.6 | 0.40 | 0.18 |