

Cable Gland Type CR-S*M

(Single Compression Barrier Gland featuring Peppers T-1000 Compound and a Male Conduit Connection Thread)

Ex d : Ex e : Ex nR : Ex ta : IP66 : IP68
Class 1 Div 2

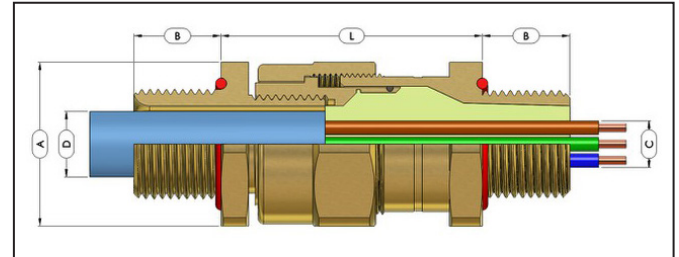
Part Numbers:

| | | | | |
|---|---|---|---|---|
| C | R | S | B | M |
| | | | S | |



“CR-S*M” type glands, used in any orientation, are certified Flameproof Ex d, Increased Safety Ex e, Restricted Breathing Ex nR and Dust Protected Ex ta. They are suitable for use in Group I Mining, Zone 1 and 2 for Gas Groups IIA, IIB and IIC and additionally for use in Zones 20, 21 and 22 for Dust Groups IIIA, IIIB and IIIC. Commonly referred to as a “Conduit Stopper Box”, they are suitable for use with conductors carried in conduit or as a line bushing for terminating flying leads. They provide a compound barrier Ex d & IP seal on the cable inner cores, eliminating damage to cables that exhibit “cold flow” characteristics. The unique features include Peppers T-1000, the sealing compound that enables a quick and easy installation and an innovative barrier chamber that allows for a full inspection of the compound fill. The gland maintains IP66 & IP68 to 100 metres and is deluge proof without the use of an additional seal or deluge boot. It is supplied with an IP O-ring seal as standard on metric entry threads. The gland is supplied with a male conduit connection thread.

| | |
|-------------------------------|--|
| Compliance Standards: | EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 60079-31 IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-15, IEC 60079-31 & IEC 60529 C22.2 (see certificate), CAN/CSA 60079-0/1/7, UL50 |
| Certification: | <p>ATEX I M2 II 1D 2G Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc</p> <p>IECEX Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc</p> <p>CEC - Canada Class I Zone 1 Ex d IIC / Ex e II Class I Division 2, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X Exd IU / Exd IICU / Exe IU / Exe IICU / ExnR IICU</p> <p>EAC Exd I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc</p> <p>INMETRO - Brazil Ex d IIC / Ex e IIC</p> <p>SAC - China Ex d IIC X / Ex e II X</p> <p>UKRAINE Ex d IIC X / Ex e II X</p> <p>CCoE - India Petroleum Rules 2002 (PESO) Ex d IIC / Ex e IIC</p> <p>KCS - Korea Specified ABS Rules</p> <p>ABIS Enclosure Systems (Part 1B)</p> <p>LLOYD'S Part XI of RS Rules for the classification & construction of sea-going ships (ed. 2014)</p> <p>RMRS</p> |
| Certificate No. | <p>ATEX SIRA 03ATEX1479X & SIRA 09ATEX4124X</p> <p>IECEX IECEx SIR 07.0098X</p> <p>CEC - Canada CSA 1356011</p> <p>EAC RU C-GB.F506.B.00098</p> <p>INMETRO - Brazil NCC 13.2188 X</p> <p>SAC - China NEPSI GYJ16.1401X</p> <p>UKRAINE UA.TR.047.C.0408-13 & 2937</p> <p>CCoE - India PESO P365300/4 & P365300/10</p> <p>KCS - Korea 15-GA4B0-0665X & 15-GA4B0-0666X</p> <p>ABIS 14-LD463991A-1-PDA</p> <p>LLOYD'S 10/00056(E1)</p> <p>RMRS 14.02755.315</p> |
| IP Rating: | IP66 & IP68 (100 metres - 7 Days), Type 4X & DTS01:1991 |
| Operating Temperature: | -60°C to +135°C |
| Materials: | Brass or Stainless Steel |
| Plating: | Electroless Nickel |
| Compound: | Peppers T-1000 Sealing Compound |



Example Part Numbering

(See below for details)

CR-SBM20/NP/M20/050NPT

| | | |
|-----------------------------|--|--|
| CR-S | Gland with Compound (Barrier) Seal | |
| B | Brass (B) / Stainless Steel (S) | |
| M | Male Back End Configuration | |
| 20 | Gland shell size | |
| L | Locknut (material dictated by gland entry thread material) | |
| N | Including IP Washer, Nylon (N) - Fibre (V) - PTFE (H) | |
| T | Including Earth Tag | |
| S | Including Serrated Washer | |
| 1 | Quantity per kit | |
| NP | Nickel Plated | |
| M20 | M20 x 1.5 Male Entry Thread | |
| 050NPT | 1/2" NPT External Male Connection Thread | |
| Optional Accessories | Locknut | Brass (ACBLN) / Stainless Steel (ACSLN) |
| | Earth tag | Brass (ACBET) / Stainless Steel (ACSET) |
| | IP Washers | Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW) |
| | Serrated Washer | Stainless Steel (ACSSW) |
| Curing Time: | @ 21°C Conductor termination can be effected after 1 hour Compound chamber can be fully inspected after 4 hours and the equipment then energised | |

CABLE GLAND SELECTION TABLE

| Gland Size | Male Entry Threads | | Metric Entry Thread Length [B] | Male Conduit Entry Threads | | Gland Seal Range - Cable Sheath & Cores | | | Nominal Protusion Length [L] | Dimensions/Weight (Metric) | | |
|------------|--------------------|------------------|--------------------------------|----------------------------|------------------|---|----------------------|----------------------|------------------------------|----------------------------|----------------|------------|
| | Metric | NPT | | Metric | NPT | Number of Cores [C] | Max Ø Over Cores [C] | Max Outer Sheath [D] | | Across Flats [A] | Across Corners | Weight Kgs |
| 20 | M20 x 1.5 | 1/2" or 3/4" | 16 | M20 x 1.5 | 1/2" or 3/4" | 40 | 12.5 | 14.0 | 45 | 30.0 | 33.0 | 0.224 |
| 25 | M25 x 1.5 | 3/4" or 1" | 16 | M25 x 1.5 | 3/4" or 1" | 60 | 17.8 | 20.0 | 49 | 37.6 | 41.4 | 0.323 |
| 32 | M32 x 1.5 | 1" or 1 1/4" | 16 | M32 x 1.5 | 1" or 1 1/4" | 80 | 23.5 | 26.3 | 55 | 46.0 | 50.6 | 0.548 |
| 40 | M40 x 1.5 | 1 1/4" or 1 1/2" | 16 | M40 x 1.5 | 1 1/4" or 1 1/2" | 130 | 28.8 | 32.2 | 56 | 55.0 | 60.5 | 0.770 |
| 50 | M50 x 1.5 | 2" | 16 | M50 x 1.5 | 2" | 400 | 39.4 | 44.1 | 62 | 65.0 | 71.5 | 0.875 |
| 63 | M63 x 1.5 | 2 1/2" | 19 | M63 x 1.5 | 2 1/2" | 425 | 50.0 | 56.0 | 63 | 80.0 | 88.0 | 1.281 |
| 75 | M75 x 1.5 | 3" | 19 | M75 x 1.5 | 3" | 425 | 60.8 | 68.0 | 63 | 90.0 | 99.0 | 1.406 |
| 80 | M80 x 2.0 | 3" or 3 1/2" | 25 | M80 x 2.0 | 3" or 3 1/2" | 425 | 64.4 | 72.0 | 81 | 104.0 | 115.2 | 2.957 |
| 85 | M85 x 2.0 | 3" or 3 1/2" | 25 | M85 x 2.0 | 3" or 3 1/2" | 425 | 69.8 | 78.0 | 81 | 104.0 | 115.2 | 2.488 |
| 90 | M90 x 2.0 | 3 1/2" or 4" | 25 | M90 x 2.0 | 3 1/2" or 4" | 425 | 75.1 | 84.0 | 81 | 114.0 | 125.7 | 3.029 |
| 100 | M100 x 2.0 | 3 1/2" or 4" | 25 | M100 x 2.0 | 3 1/2" or 4" | 425 | 80.5 | 90.0 | 81 | 114.0 | 125.7 | 2.825 |

All dimensions in mm

- Notes:
- Gland size does not necessarily equate to the entry thread size.
 - The IP O-ring seal is only available on metric entry threads. IP washers can be supplied for tapered entry threads.
 - Dimensions (A) & (B) may differ for glands with non metric entry threads. Please refer to our "Thread Reference Tables" for specific dimensions.
 - Assembly instructions must be read prior to installation and adhered to in full.
 - Peppers supply cable glands with parallel entry threads that conform to the flameproof threaded joint requirements of IEC/EN 60079-1 and other equivalent standards. They usually incorporate a thread run out according to the available machining techniques and will not have a full form thread for the entire length. Peppers Cable Glands Limited will not be held responsible for clients' installations where this has not been taken into account.
 - When selecting IP Washer material for use with glands, please be aware of the accessories temperature range to ensure they are suitable for the intended installation.
 - The gland is supplied with the correct amount of the two-part compound, gloves and instructions to allow one complete termination.
 - Where approval in addition to ATEX, IECEx and CSA is required, this must be clearly requested at time of enquiry / order.