

Peppers Cable Glands Limited

Stanhope Road, Camberley, Surrey, GU15 3BT United Kingdom
 Telephone: +44 (0) 1276 64232
 Facsimile: +44 (0) 1276 691752
 Email: sales@peppers.co.uk



Type CR-S Barrier Gland For Conduits



Part of our ATEX Gland Range
 2006 Catalogue Page 4.3.0

Croclock CR-S type glands provide Flameproof EExd compound filled barrier seal on the cables individual conductors within a conduit. It also provides an entry thread seal. Croclock CR-S type glands maintain EExd Flameproof method of explosion protection; IP66, 68 to 100 metres and is deluge resistant.

| DESIGN STANDARD | EN50014:1998, EN50018:2000 & EN 50281-1-1:1998 IEC 60079-0 (2000-06), IEC 60079-1 (2001-02) | | | | | | | | | | | |
|------------------------|---|---|-------------|----------------|--------------------------|------------------|------------|----------------|------------------|-----|-----|-------------|
| CERTIFICATION | ATEX I M2 II 2 GD, E Exd I & IIC GOST R-Exd I & IICU CSA Exd I & IIC 4X, Class 1, Zone 1 IECEx Exd IIC / Exd I NEPSI Exd IIC / Exe II | | | | | | | | | | | |
| CERTIFICATE | SIRA 03ATEX1479X - Ex Notified Body No. 0518 POCC GB 05.B00974 CSA 1356011 IECEX SIR 05.0020X NEPSI GYJ06188X | | | | | | | | | | | |
| GLAND MARKING | CENELEC & ATEX Example: SIRA 03ATEX1479X M2 II 2GD EExd I & IIC IP68 PEPPERS UK/XX/CR-SB - 20 M20 M20 (XX = Year Code) | | | | | | | | | | | |
| APPLICATION | EExd Equipment CR-S type glands will maintain Flameproof Exd integrity. Ref: IEC60079-14:2002 Section 10.4.2 <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Gas Group</th> <th>Internal Ignition Source</th> <th>Enclosure Volume</th> <th>Which Zone</th> <th>Use CR-S Gland</th> </tr> </thead> <tbody> <tr> <td>I, IIC, IIB, IIA</td> <td>YES</td> <td>Any</td> <td>Zone 1 or 2</td> <td>YES</td> </tr> </tbody> </table> Other Equipment Mining Equipment Group I, M2 Ignitable Dust, Zones 21 and 22 | | | Gas Group | Internal Ignition Source | Enclosure Volume | Which Zone | Use CR-S Gland | I, IIC, IIB, IIA | YES | Any | Zone 1 or 2 |
| Gas Group | Internal Ignition Source | Enclosure Volume | Which Zone | Use CR-S Gland | | | | | | | | |
| I, IIC, IIB, IIA | YES | Any | Zone 1 or 2 | YES | | | | | | | | |
| INGRESS PROTECTION | IP66 & IP68 @ 100 metres Meets the requirements of DTS01 1991 | | | | | | | | | | | |
| CURING TIME | @ 21°C Conductor termination can be effected after 1 hour The equipment can be energised after 4 hours The compound chamber can be inspected after 4 hours | | | | | | | | | | | |
| MATERIALS | Brass CZ121 (CR-SB) 316 Stainless Steel (CR-SS) Inner LSOH compound Entry thread seal: Red LSOH silicone | | | | | | | | | | | |
| OPTIONS | THREADS | ISO Metric; NPT; NPS; ISO Pipe Thread (BSP Taper, BSP Parallel) | | | | | | | | | | |
| | PLATING | Zinc (ZP); Nickel (NP); Tin (TP); Electroless Nickel (EN) | | | | | | | | | | |
| OPERATING TEMPERATURES | -60°C to +85°C | | | | | | | | | | | |
| ACCESSORIES | Locknut - Brass (ACBLN); 316 Stainless Steel (ACSLN) Earth Tag - Brass (ACBET), 316 Stainless Steel (ACSET) IP Washer - Nylon (ACNSW); Red Fibre (ACFSW) Serrated Lock Washer - 316 Stainless Steel (ACSSW), Galvanised Steel (ACGSW) | | | | | | | | | | | |

| | |
|---------------------|--|
| EXAMPLE PART NUMBER | <p>Sample: CR-SB 20 /NP /M20 /M20</p> <p>CR-S:</p> <p>CR-S - Gland type</p> <p>**.*B - Material (Brass)</p> <p>20 - Fitting size = 20</p> <p>NP - Nickel plating</p> <p>M20 - Male entry thread</p> <p>M20 - Female thread for gland or conduit entry</p> |
|---------------------|--|

| Fitting Size Ref | Male Entry Threads | | Female Entry Threads | | Entry Thread Length [B] | Max Across Corners [A] | Max Protrusion Length | Sealing Range Cable Conductors / Cores | | |
|------------------|--------------------|------------------|----------------------|------------------|-------------------------|------------------------|-----------------------|--|--------------------|------------------------------|
| | Metric | NPT | Metric | NPT | | | | Max No. of Cores | Max Over Cores [C] | Max Cable Inside Fitting [D] |
| 20 | M20 | 1/2" or 3/4" | M20 | 1/2" or 3/4" | 16 | 33.0 | 57.0 | 14 | 12.5 | 14.0 |
| 25 | M25 | 3/4" or 1" | M25 | 3/4" or 1" | 16 | 41.4 | 63.0 | 25 | 17.8 | 20.0 |
| 32 | M32 | 1" or 1 1/4" | M32 | 1" or 1 1/4" | 16 | 50.6 | 67.0 | 50 | 23.5 | 26.3 |
| 40 | M40 | 1 1/4" or 1 1/2" | M40 | 1 1/4" or 1 1/2" | 16 | 60.5 | 68.0 | 80 | 28.8 | 32.2 |
| 50 | M50 | 2" | M50 | 2" | 16 | 71.5 | 68.0 | 100 | 39.4 | 44.1 |
| 63 | M63 | 2 1/2" | M63 | 2 1/2" | 19 | 88.0 | 72.0 | 120 | 50.0 | 56.0 |
| 75 | M75 | 3" | M75 | 3" | 19 | 99.0 | 78.0 | 140 | 60.8 | 68.0 |
| 80 | M80 x 2 | 3" or 3 1/2" | M80 x 2 | 3" or 3 1/2" | 25 | 115.2 | 103.0 | 160 | 64.4 | 72.0 |
| 85 | M85 x 2 | 3" or 3 1/2" | M85 x 2 | 3" or 3 1/2" | 25 | 115.2 | 103.0 | 180 | 69.8 | 78.0 |
| 90 | M90 x 2 | 3 1/2" or 4" | M90 x 2 | 3 1/2" or 4" | 25 | 125.7 | 104.0 | 200 | 75.1 | 84.0 |
| 100 | M100 x 2 | 3 1/2" or 4" | M100 x 2 | 3 1/2" or 4" | 25 | 125.7 | 104.0 | 220 | 80.5 | 90.0 |

All Dimensions are in mm

NOTES:

- Please note that dimensions (A) & (B) may differ for glands with non-Metric entry threads. Please refer to our thread data tables for specific dimensions
- Integral entry thread seal option is not available for glands with tapered entry threads. IP washers can be supplied if required
- Unless otherwise stated ISO Metric entry threads have a 1.5mm pitch
- For Flameproof Exd applications the female thread into which the gland is to be fitted must comply with clause 5.3 of EN 50018:2000 (clause 5.3 IEC 79-1) and an engagement of at least 5 full threads must be achieved for parallel threads and should be achieved for tapered threads
- If CR-S type glands are fitted into non-metallic enclosures they must be included within the earth circuit of the system
- The user should seek expert advice if intending to combine flammable gases and combustible dusts in one environment/installation
- To maintain ingress protection a thread sealant should be applied to the conduit thread
- Full assembly instructions are supplied with glands, the instructions must be read prior to installation and adhered to in full

<http://www.cableglands.com>