



PART NUMBERS:

| | | | | |
|----|---|---|---|---|
| EC | 1 | S | B | C |
| | 2 | S | | |



PRODUCT DESCRIPTION

"EC"-S"C" type glands, used in any orientation, are certified Flameproof Ex db, Increased Safety Ex eb, 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 Dusts 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 db & IP seal on the cable inner cores, eliminating damage to cables that exhibit "cold flow" characteristics. The unique features include, Peppers T1000 or T2000 compound that enables a quick and easy installation. An innovative barrier chamber that allows for a full inspection of the compound fill. The gland maintains IP66, IP68 to 100 metres and IP 69. 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 rotating flexible conduit connection.

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

EXAMPLE PART NUMBERING: EC2-SBC/NP/20-1/M20

| | |
|-----------|---|
| EC | Eclipse style barrier gland for use with Peppers T1000 or T2000 compound |
| 2 | Peppers T1000 (1) - Peppers T2000 (2) |
| S | Gland featuring single compression compound (Barrier) Inner Seal for use with conduit |
| B | Brass (B) / Stainless Steel (S) |
| C | Metallic Flexible Conduit connector |
| K - V - H | Locknut & Nylon (K), Fibre (V) or PTFE (H) IP Washer |
| T | Including Earth Tag |
| S | Including Serrated Washer |
| 1 | Quantity per kit |
| NP | Nickel Plated |
| 20-1 | Gland & Connector Size |
| M20 | M20 x 1.5 Male Entry 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 WASHERS | Stainless Steel (ACSSW) |

| | |
|-----------------|---|
| IP RATING: | IP66 & IP68 (100 metres - 7 days) & IP69 |
| OPERATING TEMP: | T1000: -60°C to +135°C T2000: -60°C to +120°C |
| MATERIALS: | Brass or Stainless Steel |
| PLATING: | Electroless Nickel |
| COMPOUND: | Peppers T-1000 Compound / Peppers T-2000 Compound |

CERTIFICATION:

| | |
|--------------|--|
| ATEX | I M2 II 1D 2G Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc |
| IECEx | Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da |
| CCC - China | Certificate Pending |
| CCoE - India | Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc |
| ABS | Specified ABS Rule |
| LLOYD'S | Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da |

CERTIFICATION NO.:

| | |
|--------------|-----------------------------------|
| ATEX | CML 19ATEX1113X & CML 19ATEX4114X |
| IECEx | IECEx CML 19.0035X |
| CCC - China | Certificate Pending |
| CCoE - India | PESO P494321/17 & P494321/20 |
| ABS | 20-LD1944057-PDA |
| LLOYD'S | LR2124442TA |

Eclipse featuring the New T2000 Compound

- Hand operated No Mixing VMS Cartridge
- Fast setting compound. Conductor termination can be effected from 60 minutes @ 23°C
- Featuring Peppers unique "no ferrule" technology allowing it to be fully retractable and inspectable
- Robust Compound for extreme conditions
- Deluge proof without the requirements of additional seals or boots
- Built in interface seal with metric threads

CABLE GLAND SELECTION TABLE (ALL DIMENSIONS IN mm)

| Gland & Connector Size | Entry Thread Size | | Metric Thread Length [B] | Cable Sheath & Cores | | | | | Typical Conduit Diameter | | Nominal Protrusion Length [L] | Dimensions/Weight (Metric Versions) | | |
|------------------------|-------------------|------------------|--------------------------|-----------------------------|-----------------------------|----------------------|--------------------------|----------------------|--------------------------|---------|-------------------------------|-------------------------------------|----------------|--------------|
| | Metric | NPT | | Number of Cores [C] [T1000] | Number of Cores [C] [T2000] | Max Ø Over Cores [C] | Min Inner Sheath [T2000] | Max Outer Sheath [D] | I/D | Max O/D | | Across Flats [A] | Across Corners | Weight (Kgs) |
| 16S-1 | M16 x 1.5 | 3/8" | 16 | 12 | 12 | 5.4 | 4.0 | 5.4 | 6.8 | 10.3 | 62 | 25.4 | 28.0 | 0.132 |
| 16S-2 | M16 x 1.5 | 3/8" | 16 | 12 | 12 | 6.0 | 4.0 | 6.0 | 7.7 | 13.0 | 62 | 25.4 | 28.0 | 0.130 |
| 16S-3 | M16 x 1.5 | 3/8" | 16 | 12 | 12 | 7.2 | 4.0 | 7.2 | 9.1 | 14.3 | 62 | 25.4 | 28.0 | 0.130 |
| 16S-4 | M16 x 1.5 | 3/8" | 16 | 12 | 12 | 8.4 | 4.0 | 8.4 | 10.2 | 14.1 | 62 | 25.4 | 28.0 | 0.128 |
| 16S-5 | M16 x 1.5 | 3/8" | 16 | 12 | 12 | 8.4 | 4.0 | 8.4 | 10.9 | 15.8 | 62 | 25.4 | 28.0 | 0.133 |
| 16S-6 | M16 x 1.5 | 3/8" | 16 | 12 | 12 | 8.4 | 4.0 | 8.4 | 13.0 | 17.1 | 62 | 25.4 | 28.0 | 0.135 |
| 16S-7 | M16 x 1.5 | 3/8" | 16 | 12 | 12 | 8.9 | 4.0 | 11.0 | 13.0 | 17.1 | 62 | 25.4 | 28.0 | 0.122 |
| 16S-8 | M16 x 1.5 | 3/8" | 16 | 12 | 12 | 8.9 | 4.0 | 11.7 | 13.9 | 19.3 | 62 | 25.4 | 28.0 | 0.118 |
| 16S-9 | M16 x 1.5 | 3/8" | 16 | 12 | 12 | 8.9 | 4.0 | 11.7 | 14.6 | 20.7 | 62 | 25.4 | 28.0 | 0.128 |
| 20-1 | M20 x 1.5 | 1/2" or 3/4" | 16 | 40 | 20 | 12.5 | 4.0 | 13.0 | 13.9 | 19.3 | 65 | 30.0 | 33.0 | 0.176 |
| 20-2 | M20 x 1.5 | 1/2" or 3/4" | 16 | 40 | 20 | 12.5 | 4.0 | 14.0 | 16.9 | 22.3 | 65 | 30.0 | 33.0 | 0.172 |
| 20-3 | M20 x 1.5 | 1/2" or 3/4" | 16 | 40 | 20 | 12.5 | 4.0 | 14.0 | 16.9 | 23.8 | 65 | 30.0 | 33.0 | 0.181 |
| 20-4 | M20 x 1.5 | 1/2" or 3/4" | 16 | 40 | 20 | 12.5 | 4.0 | 14.0 | 18.7 | 24.8 | 65 | 30.0 | 33.0 | 0.195 |
| 20-5 | M20 x 1.5 | 1/2" or 3/4" | 16 | 40 | 20 | 12.5 | 4.0 | 14.0 | 20.7 | 28.3 | 65 | 30.0 | 33.0 | 0.214 |
| 25-1 | M25 x 1.5 | 3/4" or 1" | 16 | 60 | 30 | 16.5 | 8.0 | 18.5 | 20.7 | 28.3 | 70 | 37.6 | 41.4 | 0.269 |
| 25-2 | M25 x 1.5 | 3/4" or 1" | 16 | 60 | 30 | 16.5 | 8.0 | 18.5 | 21.1 | 26.8 | 64 | 37.6 | 41.4 | 0.261 |
| 25-3 | M25 x 1.5 | 3/4" or 1" | 16 | 60 | 30 | 16.5 | 8.0 | 18.5 | 23.7 | 31.3 | 70 | 37.6 | 41.4 | 0.304 |
| 25-4 | M25 x 1.5 | 3/4" or 1" | 16 | 60 | 30 | 16.5 | 8.0 | 18.5 | 25.0 | 31.3 | 70 | 37.6 | 41.4 | 0.297 |
| 32-1 | M32 x 1.5 | 1" or 1 1/4" | 16 | 80 | 50 | 23.5 | 14.0 | 26.3 | 28.1 | 33.3 | 79 | 46.0 | 50.6 | 0.409 |
| 32-2 | M32 x 1.5 | 1" or 1 1/4" | 16 | 80 | 50 | 23.5 | 14.0 | 26.3 | 30.4 | 40.8 | 79 | 46.0 | 50.6 | 0.458 |
| 32-3 | M32 x 1.5 | 1" or 1 1/4" | 16 | 80 | 50 | 23.5 | 14.0 | 26.3 | 30.4 | 38.8 | 79 | 46.0 | 50.6 | 0.478 |
| 40-1 | M40 x 1.5 | 1 1/4" or 1 1/2" | 16 | 130 | 65 | 28.8 | 16.0 | 32.2 | 36.4 | 46.8 | 80 | 55.0 | 60.5 | 0.585 |
| 40-2 | M40 x 1.5 | 1 1/4" or 1 1/2" | 16 | 130 | 65 | 28.8 | 16.0 | 32.2 | 36.4 | 44.8 | 80 | 55.0 | 60.5 | 0.553 |
| 40-3 | M40 x 1.5 | 1 1/4" or 1 1/2" | 16 | 130 | 65 | 28.8 | 16.0 | 32.2 | 37.6 | 45.3 | 80 | 55.0 | 60.5 | 0.566 |
| 50 | M50 x 1.5 | 2" | 16 | 400 | 100 | 39.4 | 20.0 | 44.1 | 48.4 | 55.8 | 83 | 65.0 | 71.5 | 0.665 |
| 63 | M63 x 1.5 | 2 1/2" | 19 | 425 | 130 | 50.0 | 30.0 | 56.0 | 57.5 | 64.8 | 84 | 80.0 | 88.0 | 1.030 |

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.
- Sizes 16S-1 through 16S-6 max Ø over cores and max outer sheaths are determined by the connector component bore size.
- Peppers supplies cable glands with parallel entry threads that conform to the flameproof threaded joint requirements of IEC/EN 60079-1 and other equivalent standards. We usually incorporate a thread run out according to general machining techniques and parts 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 & Shroud 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 compound, gloves and instructions to allow one complete termination.