

PRODUCT TYPE E8XCF

Double Compression Gland for Armoured Flat Cable featuring a Female Conduit Connection

Ex db : Ex eb : Ex nR : Ex ta : IP66 : IP68 : Class I Zone 1 : AEx eb : AEx ta



PRODUCT DESCRIPTION

"E8XCF" type glands are certified Flameproof Ex db, Increased Safety Ex eb, Restricted Breathing Ex nR and Dust Protected Ex ta. They are suitable for use in 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. Also certified for Zone and Division installations for use with Marine Shipboard and Tray Cables under the NEC and CEC. Developed for flat cables, they provide controlled Ex db sealing and have been tested to IP66 and IP68 to 50 metres. The "E8XCF" version is designed to accommodate armoured cables, sealing on the inner and outer sheaths and also incorporates a detachable armour specific clamping system. The gland features a female conduit connection thread as standard. A termination suitable for EMC protection can be made using armoured cables with these glands.

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 60079-31 & IEC 60529
C22.2 (see certificate), CAN/CSA 60079-0/1/7/31
UL514B, UL1203, UL2225, UL50E, ANSI/UL 60079-0/7, ISA 60079-31

EXAMPLE PART NUMBERING:
E8XCFB050NPT/NP/20/M20

| | | |
|-----------------------|---------------|---|
| OPTIONS | E | Gland designed for use with Armoured Cables |
| | B | Silicone Seal for flat cables |
| | X | Detachable Clamping for Braid Armour |
| | CF | Female Conduit Connection Thread |
| | B | Brass (B) / Stainless Steel (S) |
| | F | Multiple Certification |
| | 050NPT | 1/2"NPT Female Conduit Connection Thread |
| | K-V-H | Locknut, Earth Tag & Nylon (K), Fibre (V) or PTFE (H) IP Washer |
| | S | Including Serrated Washer |
| | 1 | Quantity per kit |
| OPTIONAL ACCESSORIES: | 050NPT | 1/2"NPT Female Conduit Connection Thread |
| | NP | Nickel Plated |
| | 20 | Gland shell size |
| | M20 | M20 x 1.5 Male Entry Thread |
| | | |

| | |
|-------------------------|--|
| 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 (50 metres - 7 Days), Type 4X |
| OPERATING TEMP: | Silicone Seals -60°C to +180°C |
| MATERIALS: | Brass or Stainless Steel |
| PLATING: | Electroless Nickel |

CERTIFICATION:

| | |
|-------------------------|---|
| UKEX | II 1D 2G Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc |
| ATEX | II 1D 2G Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc |
| IECEX | Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da |
| CEC - Canada | Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da Class II Group E, F & G Class III Type 4X |
| NEC - USA | Class I Zone 1 AEx eb IIC Gb / Zone 20 AEx ta IIIC Da Class II Group E, F & G Class III Type 4X |
| EAC | 1Ex d IIC Gb X / 1Ex e IIC Gb X / 2Ex nR IIC Gc X / Ex ta IIIC Da X |
| INMETRO - Brazil | Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da |
| CCC - China | Ex d IIC Gb / Ex e IIC Gb / Ex nR IIC Gc / Ex tD A20 |
| UKRAINE | II 2G Ex db IIC Gb / II 2G Ex eb IIC Gb / II 3G Ex nR IIC Gc / II 1D Ex ta IIIC Da |
| CCoE - India | Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da |
| ABS | Specified ABS Rules |
| LLOYD'S | Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da |
| RS - Russia | Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da |

CERTIFICATION No:

| | |
|-------------------------|-----------------------------------|
| UKEX | CML 21UKEX1033X & CML 21UKEX4043X |
| ATEX | CML 19ATEX1346X & CML 19ATEX4109X |
| IECEX | IECEX CML 19.0104X |
| CEC - Canada | CSA 1356011 |
| NEC - USA | CSA 1356011 |
| EAC | RU C-GB.BH02.B.00693-18 |
| INMETRO - Brazil | NCC 13.2187 X |
| CCC - China | 2021312313000447 |
| UKRAINE | CLJ 18.0321 X |
| CCoE - India | PESO P494321/7 & P494321/13 |
| ABS | 20-LD1944057-PDA |
| LLOYD'S | LR2124442TA |
| RS - Russia | 19.00189.278 |

CABLE GLAND SELECTION TABLE
(ALL DIMENSIONS IN mm)

| Gland Size | Entry Thread Size | | Metric Thread Length [B] | Conduit Connection Thread | | Cable Inner Sheath [C] | | | | Cable Outer Sheath [D] | | | | Armour Acceptance Range | Nominal Protrusion Length [L] (Metric) | Dimensions/Weight (Metric Versions) | | |
|------------|-------------------|--------------|--------------------------|---------------------------|--------------|------------------------|------|-----|-----|------------------------|------|-----|-----|-------------------------|--|-------------------------------------|----------------|--------------|
| | Metric | NPT | | Metric | NPT | Min | Max | Min | Max | Min | Max | Min | Max | | | Across Flats [A] | Across Corners | Weight (Kgs) |
| 20S | M20 x 1.5 | 1/2" or 3/4" | 16 | M20 x 1.5 | 1/2" or 3/4" | 6.3 | 11.7 | 4.0 | 7.0 | 7.9 | 11.7 | 4.5 | 7.0 | 0.10-0.30 | 81 | 30.0 | 33.0 | 0.273 |
| 20R | M20 x 1.5 | 1/2" or 3/4" | 16 | M20 x 1.5 | 1/2" or 3/4" | 8.1 | 13.5 | 5.8 | 6.2 | 10.7 | 16.1 | 5.4 | 8.3 | 0.10-0.30 | 82 | 30.0 | 33.0 | 0.274 |
| 20 | M20 x 1.5 | 1/2" or 3/4" | 16 | M20 x 1.5 | 1/2" or 3/4" | 10.3 | 13.5 | 5.6 | 9.0 | 11.0 | 13.5 | 4.5 | 9.0 | 0.10-0.30 | 81 | 30.0 | 33.0 | 0.273 |

NOTES

- Gland size does not necessarily equate to the entry thread size.
- 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 products 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.
- Where approval in addition to UKEX, ATEX, IECEX and CSA is required, this must be clearly requested at time of enquiry / order.