

Explosion Proof Glands

BARR-W EEx d IIC Brass Barrier Gland 424TW Series



Application

- > For steel wire armoured cables

Features & Benefits

- > Brass indoor and outdoor cable gland for use in Zone 1 and Zone 2 hazardous areas
- > Suitable for circular, galvanised steel single wire armour cables with extruded polymeric oversheath and extruded or taped bedding
- > Achieves IP66 seal onto cable and to enclosure with suitable sealing washer or thread sealant
- > Provides mechanical cable retention and electrical continuity through the armour wire termination
- > Suitable for most climatic conditions – weatherproof & waterproof
- > Nickel plated versions also available
- > Matching accessory kits available

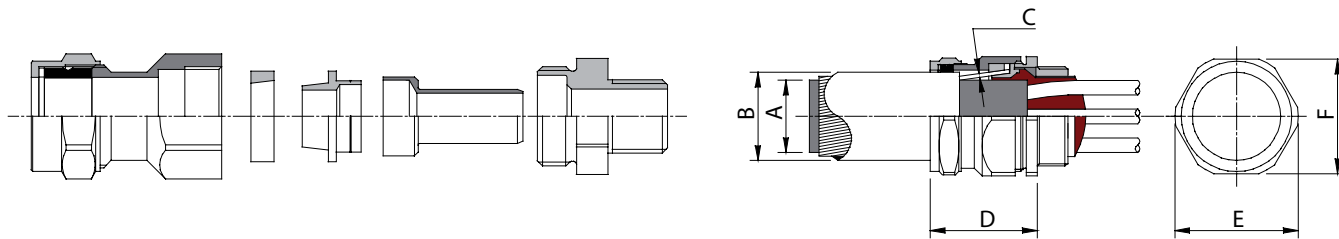


Technical Data

- > Certified II 2GD, EEx e II & EEx d IIC under ATEX directive 94/9/EC
- > Certificate number Sira04ATEX1080X
- > Service temperature range -60°C to +90°C
- > May be used in:
 - Zones 0, 1 & 2 with EEx ia IIA, B & C equipment
 - Zones 1 & 2 with EEx ib IIA, B & C equipment
 - Zones 1 & 2 with EEx d IIA, B & C equipment with any volume
 - Zones 1 & 2 with EEx e II equipment
 - Zones 1 & 2 with EEx p II equipment
 - Zone 2 with EEx nA II equipment
 - Zone 2 with EEx nR II equipment
 - Zones 21 & 22 with EEx tD II equipment



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Gland Details

| Basic Size | Gland References & Thread Sizes | | | | Max. Dia. Over Conductors | Max. No. of Conductors | Cable Dimensions mm | | | | Armour Wire Dia. 'C' | Gland Dimensions mm | | |
|------------|---------------------------------|---------------|------------|---------------|---------------------------|------------------------|-----------------------|------|------------------|------|----------------------|---------------------|--------------|---------|
| | Metric | | NPT | | | | Inner Sheath Dia. 'A' | | Overall Dia. 'B' | | | Approx. Length 'D' | Hexagon Size | |
| | Design No. | Thread Size * | Design No. | Thread Size † | | | Min | Max | Min | Max | | | A/C 'E' | A/F 'F' |
| 20S | 424TW52 | M20 × 1.5 | 424TW02 | ½" - 14 NPT | 11.0 | 30 | — | 12.5 | 8.0 | 15.8 | 0.9 / 1.4 | 67 | 34.0 | 30.5 |
| 20 | 424TW53 | M20 × 1.5 | 424TW03 | ½" - 14 NPT | 11.0 | 30 | — | 12.5 | 11.7 | 20.8 | 0.9 / 1.4 | 64 | 34.0 | 30.5 |
| 25 | 424TW55 | M25 × 1.5 | 424TW05 | ¾" - 14 NPT | 16.0 | 42 | 11.5 | 18.0 | 17.0 | 27.2 | 1.25 / 1.6 | 65 | 42.2 | 37.6 |
| 32 | 424TW56 | M32 × 1.5 | 424TW06 | 1" - 11½ NPT | 22.1 | 60 | 17.0 | 25.0 | 19.0 | 33.5 | 1.6 / 2.0 | 77 | 53.6 | 47.3 |
| 40 | 424TW57 | M40 × 1.5 | 424TW07 | 1¼" - 11½ NPT | 28.2 | 100 | 24.0 | 31.5 | 26.5 | 39.9 | 1.6 / 2.0 | 77 | 61.5 | 56.4 |
| 50 | 424TW59 | M50 × 1.5 | 424TW09 | 2" - 11½ NPT | 37.1 | 200 | 30.0 | 41.5 | 36.0 | 52.6 | 2.0 / 2.5 | 84 | 77.2 | 70.1 |
| 63 | 424TW61 | M63 × 1.5 | 424TW11 | 2½" - 8 NPT | 48.4 | 400 | 40.0 | 54.0 | 46.5 | 65.3 | 2.5 | 90 | 87.4 | 80.0 |
| 75 | 424TW63 | M75 × 1.5 | 424TW13 | 3" - 8 NPT | 58.6 | 400 | 53.0 | 65.5 | 58.0 | 78.0 | 2.5 / 3.15 | 96 | 109.2 | 98.8 |
| 85 | 424TW64 | M85 × 2 | 424TW14 | 3" - 8 NPT | 65.8 | 400 | 60.0 | 74.0 | 68.0 | 88.0 | 2.5 / 3.15 | 108 | 126.0 | 115.0 |

* 1.5mm Pitch threads are supplied 15mm long, 2mm pitch threads are supplied 20mm long

† NPT thread lengths comply with new UL2225 requirements