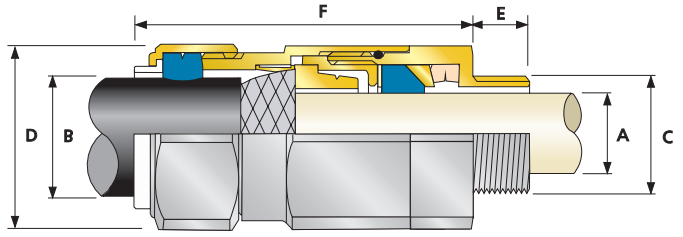




TRITON
CDS



T3CDS Ex e Exd Ex nR Ex ta

Triton CDS (T3CDS) Globally Approved, Explosive Atmosphere Cable Gland

For all types of Armoured Cables

- Fully sequential, three step installation procedure
- Reduces installation times, cost & risk
- Direct & remote installation
- Unique compensating displacement seal system (CDS)
 - Metal-to-metal installation every time regardless of cable diameter
- Designed to prevent Coldflow, see CMP Technical Document TS002
- Integral protected deluge seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- 60°C to +130°C (standard), -20°C to 200°C (ThermEx option)
- Globally marked, IECEx, ATEX, UL & cCSAus
- Superior EMC performance



† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W).

Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below.

Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.

| TECHNICAL DATA | |
|---------------------------------|--|
| Design Specification | BS 6121:Part 1:1989, IEC 62444, EN 62444 |
| Mechanical Classification* | Impact = Level 8, Cable Anchorage = Class D |
| Enclosure Protection | IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only |
| Electrical Classification* | Category B (Category A when used with braid, tape or pliable wire armour cables) |
| ATEX Certificate | SIRA13ATEX1073X, SIRA13ATEX4079X |
| Code of Protection | Ⓜ II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da, Ⓜ II 3G Ex nR IIC Gc, Ⓜ I M2, Ex d I Mb, Ex e I Mb |
| Compliance Standards | EN60079-0,1,7,15,31 |
| IECEx Certificate | IECEx SIR 13.0028X, IECEx SIM 14.0007X |
| Code of Protection | Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex d I Mb, Ex e I Mb |
| Compliance Standards | IEC 60079-0,1,7,15,31 |
| cCSAus Certificate (20S16 - 90) | 1310517 |
| CSAus Code of Protection | Class II, Div 2, Groups E,F and G, Class III, Enclosure Type 4X, Oil Res II Class I, Zone 1, AEx e II, AEx nR II |
| cCSA Code of Protection | Class I, Div 2, Groups A,B,C and D, Class II, Div 2, Groups E,F and G, Class III, Enclosure Type 3, 4 and 4X, Ex d IIC, Ex e IIC, Ex nR II |
| Compliance Standards | CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-E60079-0, 1, 7, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0, 1, 7 |
| UL Certificate (20S16 - 90) | E256367 |
| Code of Protection | Class I, Zone 1, AEx e II |
| Compliance Standards | UL514B |
| EAC Certificate | TC RU C-GB.AA87.B.00487 |
| UkrSEPRO | UA.TR.047.C.0644-15 |
| NEPSI Certificate | GYJ18.1253X |
| CCOE / PESO (India) Certificate | P333688 |
| INMETRO Certificate | TUV 11.0374X |
| RETIE Certificate | 03866 |
| Marine Certificates | LRS: 01/00172, DNV: TAE000000Y, ABS: 14-LD234401A-4-PDA, BV: 43180 A1 BV |
| Ingress Protection Rating** | IP66, IP67 & IP68*** |
| Deluge Protection Compliance | DTS01 : 91 |
| Cable Gland Material | Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel |
| Seal Material | CMP SOLO LSF Halogen Free Thermoset Elastomer |
| Cable Type(s) | Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Aluminium Strip Armour (ASA), Screened Flexible (EMC) Wire Braid (e.g. CV/SY), Wire Braid Armour (e.g. SWB) |
| Armour Clamping | Reversible Armour Cone & AnyWay Universal Clamping Ring |
| Sealing Technique | Inner Bedding Sealing Ring: Compensating Displacement Seal (CDS), Outer Sheath Sealing Ring : Load Retention Seal (LRS) |
| Sealing Area(s) | Cable Inner Bedding & Outer Cable Sheath |

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444
 ** When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.
 *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request

Cable Gland Selection Table

Refer to illustration at the top of the page.

Dimensions for alternative threads may vary, please see supplementary technical data sheet

| Cable Gland Size | Available Entry Threads "C" (Alternate Metric Thread Lengths Available) | | | | Cable Bedding Diameter "A" | | Overall Cable Diameter "B" | | Armour Range † | | | | Across Flats "D" | Across Corners "D" | Protrusion Length "F" | Combined Ordering Reference (*Brass Metric) | | | Shroud | Cable Gland Weight (Kgs) | |
|------------------|---|----------------------------|--------|-------------------------|----------------------------|------|----------------------------|-------|------------------|-----|------------------|------|------------------|--------------------|-----------------------|---|-------|-----------------|--------|--------------------------|------|
| | Standard | | Option | | Min | Max | Min | Max | Grooved Cone (X) | | Stepped Cone (W) | | | | | Size | Type | Ordering Suffix | | | |
| | Metric | Thread Length (Metric) "E" | NPT | Thread Length (NPT) "E" | | | | | Min | Max | Min | Max | Min | Max | Min | | | | Max | | |
| 16 | M16 | 15.0 | - | - | 3.1 | 8.6 | 6.1 | 13.1 | 0.3 | 1.0 | 0.8 | 1.25 | 24.0 | 26.4 | 78.7 | 16 | T3CDS | 1RA | PVC36 | 0.18 | |
| 20S16 | M20 | 15.0 | 1/2" | 19.9 | 3/4" | 3.1 | 8.6 | 6.1 | 13.1 | 0.3 | 1.0 | 0.8 | 1.25 | 24.0 | 26.4 | 78.7 | 20S16 | T3CDS | 1RA | PVC36 | 0.20 |
| 20S | M20 | 15.0 | 1/2" | 19.9 | 3/4" | 6.1 | 11.6 | 9.5 | 15.9 | 0.3 | 1.0 | 0.8 | 1.25 | 24.0 | 26.4 | 78.7 | 20S | T3CDS | 1RA | PVC36 | 0.20 |
| 20 | M20 | 15.0 | 1/2" | 19.9 | 3/4" | 6.5 | 13.9 | 12.5 | 20.9 | 0.4 | 1.0 | 0.8 | 1.25 | 30.5 | 33.6 | 76.2 | 20 | T3CDS | 1RA | PVC06 | 0.28 |
| 25S | M25 | 15.0 | 3/4" | 20.2 | 1" | 11.1 | 19.9 | 14.0 | 22.0 | 0.4 | 1.2 | 1.25 | 1.6 | 37.5 | 41.3 | 88.8 | 25S | T3CDS | 1RA | PVC09 | 0.44 |
| 25 | M25 | 15.0 | 3/4" | 20.2 | 1" | 11.1 | 19.9 | 18.2 | 26.2 | 0.4 | 1.2 | 1.25 | 1.6 | 37.5 | 41.3 | 88.7 | 25 | T3CDS | 1RA | PVC09 | 0.44 |
| 32 | M32 | 15.0 | 1" | 25.0 | 1 1/4" | 17.0 | 26.2 | 23.7 | 33.9 | 0.4 | 1.2 | 1.6 | 2.0 | 46.0 | 50.6 | 90.7 | 32 | T3CDS | 1RA | PVC11 | 0.63 |
| 40 | M40 | 15.0 | 1 1/4" | 25.6 | 1 1/2" | 22.0 | 32.1 | 27.9 | 40.4 | 0.4 | 1.6 | 1.6 | 2.0 | 55.0 | 60.5 | 93.2 | 40 | T3CDS | 1RA | PVC15 | 0.91 |
| 50S | M50 | 15.0 | 1 1/2" | 26.1 | 2" | 29.5 | 38.1 | 35.2 | 46.7 | 0.4 | 1.6 | 2.0 | 2.5 | 60.0 | 66.0 | 100.7 | 50S | T3CDS | 1RA | PVC18 | 1.12 |
| 50 | M50 | 15.0 | 2" | 26.9 | 2 1/2" | 35.6 | 44.0 | 40.4 | 53.0 | 0.6 | 1.6 | 2.0 | 2.5 | 70.1 | 77.1 | 105.8 | 50 | T3CDS | 1RA | PVC21 | 1.60 |
| 63S | M63 | 15.0 | 2" | 26.9 | 2 1/2" | 40.1 | 49.9 | 45.6 | 59.4 | 0.6 | 1.6 | 2.0 | 2.5 | 75.0 | 82.5 | 102.5 | 63S | T3CDS | 1RA | PVC23 | 1.73 |
| 63 | M63 | 15.0 | 2 1/2" | 39.9 | 3" | 47.2 | 55.9 | 54.6 | 65.8 | 0.6 | 1.6 | 2.0 | 2.5 | 80.0 | 88.0 | 105.4 | 63 | T3CDS | 1RA | PVC25 | 1.78 |
| 75S | M75 | 15.0 | 2 1/2" | 39.9 | 3" | 52.8 | 61.9 | 59.0 | 72.0 | 0.6 | 1.6 | 2.0 | 2.5 | 90.0 | 99.0 | 110.6 | 75S | T3CDS | 1RA | PVC28 | 2.57 |
| 75 | M75 | 15.0 | 3" | 41.5 | 3 1/2" | 59.1 | 67.9 | 66.7 | 78.4 | 0.6 | 1.6 | 2.5 | 3.0 | 100.0 | 110.0 | 120.3 | 75 | T3CDS | 1RA | PVC30 | 3.33 |
| 90 | M90 | 24.0 | 3 1/2" | 42.8 | 4" | 66.6 | 78.6 | 76.2 | 90.3 | 0.8 | 1.6 | 3.15 | 4.0 | 115.0 | 126.5 | 138.9 | 90 | T3CDS | 1RA | PVC32 | 4.87 |
| 100 | M100 | 24.0 | 3 1/2" | 42.8 | 4" | 76.0 | 90.9 | 86.1 | 101.4 | 0.8 | 1.6 | 3.15 | 4.0 | 127.0 | 139.7 | 128.2 | 100 | T3CDS | 1RA | LSF33 | 4.97 |
| 115 | M115 | 24.0 | 4" | 44.0 | 5" | 86.0 | 97.9 | 101.5 | 110.2 | 0.8 | 1.6 | 3.15 | 4.0 | 138.0 | 151.8 | 161.3 | 115 | T3CDS | 1RA | LSF34 | 7.72 |
| 130 | M130 | 24.0 | 5" | 46.8 | - | 97.0 | 114.9 | 110.2 | 123.2 | 0.8 | 1.6 | 3.15 | 4.0 | 157.0 | 172.7 | 173.3 | 130 | T3CDS | 1RA | LSF35 | 9.78 |

*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1' For NPT options add the following digits to the material suffix; 1/2" = 31; 3/4" = 32; 1" = 33; 1 1/4" = 34; 1 1/2" = 35; 2" = 36; 2 1/2" = 37; 3" = 38; 3 1/2" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32T3CDS1RA534 = Nickel Plated Brass 1 1/4" NPT, 50S3CDS1RA035 = Brass 1 1/2" NPT, 25T3CDS1RA432 = Stainless Steel 3/4" NPT, 20T3CDS1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated