

T3CDS TRITON CDS

TRITON CDS (T3CDS) GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF ARMoured CABLES

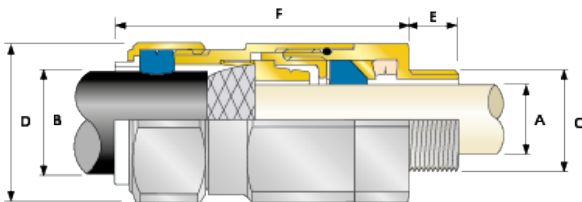
- Fully sequential, three step installation procedure
- Reduces installation times, cost and risk
- Direct and remote installation
- Unique compensating displacement seal system (CDS)
- Metal-to-metal installation every time regardless of cable diameter
- Designed to reduce the effects of coldflow. See CMP Technical Doc TSO02
- Integral protected deluge seal
- Controlled outer load retention seal
- Unique OSTG prevents over tightening
- 60°C to +130°C (standard),
- Globally marked, UL, cCSAus, IECEx and ATEX



| | | | |
|--------------|-------------------------|------------------------------------|----------------|
| IP66 | IP67 | IP68 | NEMA 4X |
| EMC | DELUGE PROTECTED | +130°C ↑ -60°C | |
| Ex db | Ex eb | Ex ta | Ex nR |

| TECHNICAL CLASSIFICATION | |
|------------------------------|--|
| DESIGN SPECIFICATION | BS 6121: Part 1:1989, IEC 62444, EN 62444 |
| MECHANICAL CLASSIFICATION* | Impact = Level 8, Cable Anchorage = Type D |
| ENCLOSURE PROTECTION | IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only |
| ELECTRICAL CLASSIFICATION* | Category B (Category A when used with braid, tape or pliable wire armour cables) |
| INGRESS PROTECTION RATING** | IP66, IP67 and IP68*** |
| NEMA RATING** | Type 4X |
| DELUGE PROTECTION COMPLIANCE | DTS01 : 91 |
| CABLE GLAND MATERIAL | Electroless Nickel Plated Brass, Copper Free (<0.4%) Aluminium, Stainless Steel |
| SEAL MATERIAL | CMP SOLO LSF Halogen Free Thermoset Elastomer |
| CABLE TYPE(S) | Steel / Served 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 and AnyWay Universal Clamping Ring |
| SEALING TECHNIQUE | CMP Inner Compensating Displacement Seal (CDS) and Outer Load Retention Seal |
| SEALING AREA(S) | Cable Inner Bedding and Outer Cable Sheath |

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



| GLOBAL PRODUCT CERTIFICATION | | | |
|------------------------------|---|---------------------------------|--|
| ATEX CERTIFICATE | CML18ATEX1326X, CML18ATEX4318X | IECEx CERTIFICATE | IECEx CML 18.0183X |
| CODE OF PROTECTION | II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIC Da II 3G, Ex nR IIC GC I M2, Ex db I Mb*, Ex eb I Mb* | CODE OF PROTECTION | Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIC Da, Ex db I Mb*, Ex eb I Mb* |
| COMPLIANCE STANDARDS | EN 60079-0,1,7,15,31 | COMPLIANCE STANDARDS | IEC 60079-0,1,7,15,31 |
| cSAus CERTIFICATE (20S16-90) | 1310517 | | |
| CSAus CODE OF PROTECTION | Class II, Div 2, Groups E, F, and G; Class III, Div 1 and 2; Enclosure Type 4X; Oil Resistance II; Class I, Zone 1, AEx e II, AEx nR II | | |
| cSA CODE OF PROTECTION | Class I, Div 2, Groups A, B, C, and D; Class II, Div 2, Groups E, F, and G; Class III, Div 1 and 2; Enclosure Types 3, 4, and 4X; Ex d IIC, Ex e II, Ex nR II | | |
| COMPLIANCE STANDARDS | CSA-C22.2 No 0, 18, 25, 30, 94, 174, CSA C22.2 No 60079-0,1,7,15; ANSI/UL 514B, 50, 2225; UL60079-0,1,7,15 | | |
| UL CERTIFICATE (20S16-90) | E256367 | | |
| CODE OF PROTECTION | Class I, Zone 1, AEx e II | | |
| COMPLIANCE STANDARDS | UL 50, 514B, 2225; EN 50014,60529; CSA C22.2 No. 174 | | |
| ECAS CERTIFICATE | 20-02-05626 | UkrSEPRO CERTIFICATE | CU 19.0371X |
| EAC CERTIFICATE | TC RU C-GB.AA87.B.00487 (excl. ThermEx) | | |
| CODE OF PROTECTION | 1Ex d IIC Gb X, 1Ex e IIC Gb X, 2Ex nR IIC Gc X, Ex ta IIC Da X, IP66, IP67, IP68 | | |
| RETIE APPROVAL NUMBER | 03866 | CCOE / PESO (INDIA) CERTIFICATE | P444949 |
| CCC CERTIFICATE | 2020322313002527 | INMETRO APPROVAL | TUV 11.0374X |
| SANS | IA MS-XPL21804 21.0011X | | |
| MARINE APPROVALS | LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180 A1 BV | | |

*Per ATEX CML 18ATEX1326X and IECEx CML 18.0183X, aluminium alloys are not permitted in Group I mining applications



† 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.

| COMBINED ORDERING REFERENCE | | | AVAILABLE ENTRY THREADS 'C' | | CABLE BEDDING DIAMETER 'A' | | OVERALL CABLE DIAMETER 'B' | | ARMOUR RANGE † | | | | ACROSS FLATS 'D' | ACROSS CORNERS 'D' | PROTRUSION LENGTH 'F' | SHROUD | CABLE GLAND WEIGHT (kg) |
|-----------------------------|-------|-----------------|-----------------------------|---------------------------|----------------------------|-------|----------------------------|-------|------------------|-----|------------------|------|------------------|--------------------|-----------------------|--------|-------------------------|
| | | | METRIC | MINIMUM THREAD LENGTH 'E' | MIN | MAX | MIN | MAX | GROOVED CONE (X) | | STEPPED CONE (W) | | | | | | |
| SIZE | TYPE | ORDERING SUFFIX | | | | | | | MIN | MAX | MIN | MAX | MAX | MAX | | | |
| 20S16 | T3CDS | 1RA | M20 | 15.0 | 3.1 | 8.6 | 6.1 | 13.1 | 0.3 | 1.0 | 0.8 | 1.25 | 24.0 | 26.4 | 78.7 | PVC36 | 0.18 |
| 20S | T3CDS | 1RA | M20 | 15.0 | 6.1 | 11.6 | 9.5 | 15.9 | 0.3 | 1.0 | 0.8 | 1.25 | 24.0 | 26.4 | 78.7 | PVC36 | 0.20 |
| 20 | T3CDS | 1RA | M20 | 15.0 | 6.5 | 13.9 | 12.5 | 20.9 | 0.4 | 1.0 | 0.8 | 1.25 | 30.5 | 33.6 | 76.2 | PVC06 | 0.28 |
| 25S | T3CDS | 1RA | M25 | 15.0 | 11.1 | 19.9 | 14.0 | 22.0 | 0.4 | 1.2 | 1.25 | 1.6 | 37.5 | 41.3 | 88.8 | PVC09 | 0.44 |
| 25 | T3CDS | 1RA | M25 | 15.0 | 11.1 | 19.9 | 18.2 | 26.2 | 0.4 | 1.2 | 1.25 | 1.6 | 37.5 | 41.3 | 88.7 | PVC09 | 0.44 |
| 32 | T3CDS | 1RA | M32 | 15.0 | 17.0 | 26.2 | 23.7 | 33.9 | 0.4 | 1.2 | 1.6 | 2.0 | 46.0 | 50.6 | 90.7 | PVC11 | 0.63 |
| 40 | T3CDS | 1RA | M40 | 15.0 | 22.0 | 32.1 | 27.9 | 40.4 | 0.4 | 1.6 | 1.6 | 2.0 | 55.0 | 60.5 | 93.2 | PVC15 | 0.91 |
| 50S | T3CDS | 1RA | M50 | 15.0 | 29.5 | 38.1 | 35.2 | 46.7 | 0.4 | 1.6 | 2.0 | 2.5 | 60.0 | 66.0 | 100.7 | PVC18 | 1.12 |
| 50 | T3CDS | 1RA | M50 | 15.0 | 35.6 | 44.0 | 40.4 | 53.0 | 0.6 | 1.6 | 2.0 | 2.5 | 70.1 | 77.1 | 105.8 | PVC21 | 1.60 |
| 63S | T3CDS | 1RA | M63 | 15.0 | 40.1 | 49.9 | 45.6 | 59.4 | 0.6 | 1.6 | 2.0 | 2.5 | 75.0 | 82.5 | 102.5 | PVC23 | 1.73 |
| 63 | T3CDS | 1RA | M63 | 15.0 | 47.2 | 55.9 | 54.6 | 65.8 | 0.6 | 1.6 | 2.0 | 2.5 | 80.0 | 88.0 | 105.4 | PVC25 | 1.78 |
| 75S | T3CDS | 1RA | M75 | 15.0 | 52.8 | 61.9 | 59.0 | 72.0 | 0.6 | 1.6 | 2.0 | 2.5 | 90.0 | 99.0 | 110.6 | PVC28 | 2.57 |
| 75 | T3CDS | 1RA | M75 | 15.0 | 59.1 | 67.9 | 66.7 | 78.4 | 0.6 | 1.6 | 2.5 | 3.0 | 100.0 | 110.0 | 120.3 | PVC30 | 3.33 |
| 90 | T3CDS | 1RA | M90 | 24.0 | 66.6 | 78.6 | 76.2 | 90.3 | 0.8 | 1.6 | 3.15 | 4.0 | 115.0 | 126.5 | 138.9 | PVC32 | 4.87 |
| 100 | T3CDS | 1RA | M100 | 24.0 | 76.0 | 90.9 | 86.1 | 101.4 | 0.8 | 1.6 | 3.15 | 4.0 | 127.0 | 139.7 | 128.2 | LSF33 | 4.97 |
| 115 | T3CDS | 1RA | M115 | 24.0 | 86.0 | 97.9 | 101.5 | 110.2 | 0.8 | 1.6 | 3.15 | 4.0 | 138.0 | 151.8 | 161.3 | LSF34 | 7.72 |
| 130 | T3CDS | 1RA | M130 | 24.0 | 97.0 | 114.9 | 110.2 | 123.2 | 0.8 | 1.6 | 3.15 | 4.0 | 157.0 | 172.7 | 173.3 | LSF35 | 9.78 |

For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass 'S'; 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: 32T3CDS1RA53S = Nickel Plated Brass 1 1/4" NPT, 50S13CDS1RA035 = Brass 1 1/2" NPT, 25T3CDS1RA432 = Stainless Steel 3/4" NPT, 20T3CDS1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.