

# T3CDS TRITON CDS

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

**FOR ALL TYPES OF ARMoured CABLES**

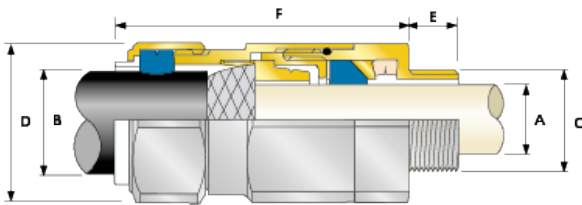
- Fully sequential, three step installation procedure
- Reduces installation times, cost and risk
- Direct and remote installation
- Unique compensating displacement seal system (CDS)
- Metal-to-metal installation every time regardless of cable diameter
- Designed to reduce the effects of coldflow. See 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, ATEX and UKEX



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

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](http://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
UKEX CERTIFICATE	CML 21UKEX1258X, CML 21UKEX4259X	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*
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*	COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	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, Div 1 and 2; Enclosure Type 4X; Oil Resistance II; Class I, Zone 1, AEx e II, AEx nR II
CSAus 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	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, Div 1 and 2; Enclosure Types 3, 4, and 4X; Ex d IIC, Ex e II, Ex 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, 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
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
UL CERTIFICATE (20S16 - 90)	E256367	CODE OF PROTECTION	Class I, Zone 1, AEx e II
CODE OF PROTECTION	Class I, Zone 1, AEx e II	COMPLIANCE STANDARDS	UL 50, 514B, 2225; EN 50014,60529; CSA C22.2 No. 174
COMPLIANCE STANDARDS	UL 50, 514B, 2225; EN 50014,60529; CSA C22.2 No. 174	ECAS CERTIFICATE	20-02-05626
ECAS CERTIFICATE	20-02-05626	UkrSEPRO CERTIFICATE	CLL 19.0371X
EAC CERTIFICATE	Check website for latest certificate number (excl. ThermEx)	EAC CERTIFICATE	Check website for latest certificate number (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	RETE APPROVAL NUMBER	03866
RETE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313002527	INMETRO APPROVAL	TUV 11.0374X
SANS APPROVALS	IA MS-XPL21804 21.0011X	MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180

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 '1'				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; 1/8" = 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, 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.