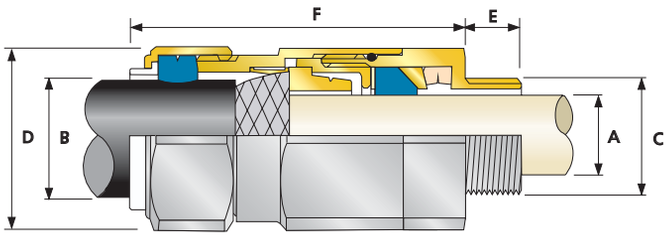
TRITON CDS



T3CDS

Ex e | Exd | ExnR | Exta

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
- 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 page 91)
- Globally marked, IECEx, ATEX, UL & cCSAus
- EMC tested

† ***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).*

Note: 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, Retention = 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	Ex II 2G,II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da, Ex II 3G Ex nR IIC Gc, Ex 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 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, 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)	E200163
Code of Protection	Class I, Zone 1, AEx e II
Compliance Standards	UL514B
EAC Certificate (Formerly GOST R, K & B)	TC RU C-GB.ГБ05.B00138
UkrSEPRO	UA.TR.047.C.0644-15
NEPSI Certificate	GYJ13.1141X / GYJ13.1283X
CCOE / PESO (India) Certificate	P333688
INMETRO Certificate	TUV 11.0374X
RETIE Certificate	03866
Marine Certificates	LRS: 01/00172 (E3), DNV: E-13848, ABS: 14-LD234401A-4-PDA, BV: 43180/A1
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 CY/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*
*** Refer to page 7 or www.cmp-products.com for further information on Ingress Protection Ratings*

Cable Gland Selection Table

Refer to illustration at the top of the page.

Dimensions listed below are for metric cable glands only
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					Grooved Cone (X)		Stepped Cone (W)									
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Min	Max	Min	Max	Min	Max	Min	Max	Max	Max		Size	Type	Ordering Suffix		
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, 50ST3CDS1RA035 = Brass 1-1/2" NPT, 25T3CDS1RA432 = Stainless Steel 3/4" NPT, 20T3CDS1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated