



CMP Products

Glasshouse Street, St. Peters, Newcastle upon Tyne, NE6 1BS

TECHNICAL DATA SHEET CABLE GLAND TYPE T3CDS

CMP Products

Cable Gland & Cable Connection Specialists

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Triton CDS (T3CDS) Flameproof Ex d, Increased Safety Ex e and Restricted Breathing Ex nR Cable Gland

CMP Triton CDS Type T3CDS Triple Certified Flameproof (Type 'd'), Increased Safety (Type 'e') and Restricted Breathing (Type 'nR') indoor and outdoor cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas with all types of armoured cable providing a Flameproof seal on the cable inner bedding and an environmental seal on the cable outer sheath.

This product utilises a unique Compensating Displacement Seal (CDS) system which provides full compatibility with Restricted Breathing equipment that rely upon flammable gases being excluded from the main enclosure.

The cable gland provides mechanical cable retention and electrical continuity via armour wire termination. A reversible armour cone and AnyWay universal clamping ring arrangement allows the cable to be easily disconnected from the equipment, for maintenance and change out etc., and re-connected with the same consummate ease. This feature also facilitates remote make off procedures when the termination is to be conducted in confined spaces or in areas of restricted access. Separate tightening actions for the inner compensating displacement seal (CDS) system and the armour termination affords maximum control over the pressure applied to the cable inner bedding.

The CMP Triton CDS Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21 & Zone 22 provided always that the prevailing code of practice for selection, installation and maintenance is observed, e.g. IEC 60079-14.

Technical Data	
Type	T3CDS
Design Specification	BS 6121:Part 1:1989, EN 50262:1999, UL 514B
IEC Ex Certification Detail	IECEX SIR 07.0005X
IEC Code of Protection Category	Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66
IEC Compliance Standards	IEC 60079-0:2004, IEC 60079-1:2003, IEC 60079-7:2006, IEC 60079-15:2005, IEC 61241-0:2004, IEC 61241-1:2004
ATEX Certification Detail	SIRA06ATEX1283X, SIRA07ATEX4328X
ATEX Code of Protection Category	ATEX Ex II 2 GD, Ex d IIC, Ex e II, Ex tD A21 IP66, ATEX Ex II 3 G Ex nR II
EN Compliance Standards	EN 60079-0:2006, EN 60079-1:2004, EN 60079-7:2003, EN 60079-15:2005, IEC 61241-0:2004, IEC 61241-1:2004
CSA Approval Certificate No.	1310517
CSA Code of Protection Category	Class 4418 05; Class I,II,III; Class I, Div 2, Groups A,B,C&D, Class II, Div 2, Groups E,F,&G, Enclosure Type 3,4,&4X; Class III; Ex d IIC, Ex e II
CSA Compliance Standards	CAN/CSA-C22.2 No. 18-92, CSA Std C22.2 No. 25-1966, CSA Std C22.2 No. 174-M1984, CAN/CSA-C22.2 No. 94-M91, CAN/CSA-E60079-0-2001, IEC 60079-0:1998, CAN/CSA-E79-7-95, CAN/CSA C22.2 No 60529:05
UL Listing File No.	UBWE.E200163, CYMJ.E256366, FDJR.E256367
UL Code of Protection Category	Class I Zone 1 AEx e II, Ordinary & Wet Locations, Class I Zone 2 AEx e II
UL Compliance Standards	UL 60079-0, UL 60079-7, UL 514B
INMETRO Approval Certificate No.	MC-AEX-7041-X
NBR Code of Protection Category	BR - Ex d IIC / BR - Ex e II / IP66W
NBR Compliance Standards	IEC 60079-0/98, IEC 60079-1/01, IEC 60079-7/01, NBR IEC 60529/04
GOST R Certificate Number	POCC GB. ГБ05.В01912



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GOST R Code of Protection Category	Ex d IIC U / Ex e II U
GOST R Compliance Standards	ГОСТ P 52350.0-2005, ГОСТ P 52350.1-2005, ГОСТ P 52350.7-2005
GOST GGTN Permit	PPC 00-18262
GOST K Certificate Number	KZ 7500052 05 01 00063
RoK Permit For Use Number	08-067693
Lloyds Approval No.	01/00172
DNV Approval No.	E-8119
ABS Approval No.	01-LD234401A/1-PDA
Continuous Operating Temperature	-60°C to +130°C
Ingress Protection Rating	IP66, IP67, IP68
Deluge Protection Compliance	DTS01 : 91
Deluge Protection Document	ITS 01005029 - D
Standard Cable Gland Material	Brass
Alternative Cable Gland Material	Electroless Nickel Plated Brass, Aluminium, Stainless Steel
Seal Material	CMP SOLO LSF Thermoplastic Elastomer
Cable Type	Aluminium Strip Armour (ASA), Screened Flexible Wire Braid (e.g. CY / SY), Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Wire Braid Armour (e.g. SWB), Armored & Jacketed
Armour Clamping	Reversible Armour Cone & AnyWay Universal Clamping Ring
Sealing Technique	CMP Inner Compensating Displacement Seal System (CDS) & Outer Load Retention Seal (LRS)
Sealing Area(s)	Cable Inner Bedding & Outer Cable Sheath
Accessories	Adaptor/Reducer, Earth Tag, Locknut, Serrated Washer, Entry Thread Seal, Shroud

Note: Versions with dedicate armour cones, Type T3CDSW - for SWA cables only, and Type T3CDSX for all other approved cable types also available.

The Stepped side of the cone is suitable for SWA cables, and the Grooved side of the cone is suitable for all other approved armoured cables.

If Tape Armour is to be used please contact CMP for advise.



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CMP T3CDS CABLE GLAND SELECTION TABLE

Cable Gland Size	Available Entry Threads			Minimum Thread Length	Cable Bedding Diameter		Overall Cable Diameter		Armour Range +				Across Flats	Across Corners	Protrusion Length	Ordering Reference (Brass Metric) #	Cable Gland Weight (Kgs)
	Standard		Option		Min	Max	Min	Max	Grooved Cone		Stepped Cone		Max	Max			
	Metric	NPT	NPT						Min	Max	Min	Max					
20S/16	M20	1/2"	3/4"	15.0	3.1	8.7	6.1	11.5	0.2	1.0	0.9	1.0	24.0	26.6	70.0	20S16T3CDS1RA	0.170
20S	M20	1/2"	3/4"	15.0	6.1	12.0	9.5	15.9	0.2	1.0	0.9	1.3	24.0	26.6	70.0	20ST3CDS1RA	0.170
20	M20	1/2"	3/4"	15.0	6.5	14.0	12.5	20.9	0.2	1.0	0.9	1.3	30.5	33.3	72.0	20T3CDS1RA	0.256
25S	M25	3/4"	1"	15.0	11.0	20.0	14.0	22.0	0.2	1.0	1.3	1.6	37.5	40.5	82.0	25ST3CDS1RA	0.384
25	M25	3/4"	1"	15.0	11.0	20.0	18.2	26.2	0.2	1.0	1.3	1.6	37.5	40.5	82.0	25T3CDS1RA	0.379
32	M32	1"	1 1/4"	15.0	17.0	26.0	23.7	33.9	0.2	1.0	1.6	2.0	46.0	51.0	85.0	32T3CDS1RA	0.560
40	M40	1 1/4"	1 1/2"	15.0	22.0	32.0	27.9	40.4	0.2	1.0	1.6	2.0	55.0	61.0	86.0	40T3CDS1RA	0.848
50S	M50	1 1/2"	2"	15.0	30.0	38.0	35.2	46.7	0.2	1.0	2.0	2.5	60.0	66.5	98.0	50ST3CDS1RA	1.055
50	M50	2"	2 1/2"	15.0	36.0	44.0	40.4	53.1	0.2	1.0	2.0	2.5	70.0	78.6	100.0	50T3CDS1RA	1.521
63S	M63	2"	2 1/2"	15.0	40.0	50.0	45.6	59.4	0.2	1.0	2.0	2.5	75.0	83.2	108.0	63ST3CDS1RA	1.750
63	M63	2 1/2"	3"	15.0	47.0	56.0	54.6	65.9	0.2	1.0	2.0	2.5	80.0	89.0	103.0	63T3CDS1RA	1.685
75S	M75	2 1/2"	3"	15.0	53.0	62.0	59.0	72.1	0.2	1.0	2.0	2.5	89.0	101.6	105.0	75ST3CDS1RA	2.345
75	M75	3"	3 1/2"	15.0	59.0	68.0	66.7	78.5	0.2	1.0	2.0	2.5	99.0	111.1	114.0	75T3CDS1RA	3.200
90	M90	3"	3 1/2"	15.0	67.0	79.0	76.2	90.4	0.3	1.6	3.2	3.2	114.0	128.6	140.0	90T3CDS1RA	5.100
100	M100	4"	4 1/2"	15.0	80.0	91.0	86.1	102.0	0.3	1.6	3.2	4.0	123.0	138.0	170.0	100T3CDS1RA	6.500
115	M115	4 1/2"	5"	15.0	90.0	98.0	102.0	110.0	0.3	1.6	3.2	4.0	133.4	147.6	210.0	115T3CDS1RA	7.000
130	M130	5"	6"	15.0	100.0	115.0	114.0	123.0	0.3	1.6	3.2	4.0	146.1	161.9	250.0	130T3CDS1RA	7.800

Dimensions are displayed in Millimetres

NOTE: +Alternative armour clamping range available for non-standard armour sizes. Marine Approvals including Lloyds, DNV & ABS are also available from CMP Products. # Other thread forms are available.