TECHNICAL DATA

CABLE GLAND TYPE

INGRESS PROTECTION IP66, IP67, IP68, NEMA 4X, DELUGE TO DTS01-01

: BS EN ISO 9001

: ISO / IEC 80079-34:2011

EXPLOSIVE ATMOSPHERES CLASSIFICATION

ATEX CERTIFICATION No : SIRA13ATEX1073X, SIRA13ATEX4079X

ATEX CERTIFICATION CODE : 🐼 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

IECEx CERTIFICATION No : IECEx SIR.13.0028X IECEX CERTIFICATION CODE

: Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex d I Mb, Ex e I Mb

cCSAus CERTIFICATION No

: Class I Div 2 Groups, A, B, C, D; Class II Div 2 Gp E, F, G; Class III; Enclosure Type 3, 4 and 4X, Ex d IIC, Ex e IIC, Ex nR II, Class I, Zone 1, AEx e II, AEx nR II

Installation should only be performed by a competent person using the correct tools. Read all instructions before beginning installation

- 1. The glands ranges shall only be used on enclosures where the temperature, at the point of mounting, is in the range -60°C to +130°C
- 2. When used with braided cable, the cable glands shall be used for fixed installations only. Cables must be effectively clamped to prevent twisting and pulling.

The following accessories are available from CMP Products, as optional extras, to assist with fixing, sealing and earthing: - Locknut, Earth Tag, Serrated Washer, Entry Thread (I.P.) Sealing Washer, Shroud

	Outer Seal Tightening Guide													
Number of turns	GLAND SIZE													
to tighten	20516	205	20	255	25	32	40	50S	50	635	63	755	75	
	CABLE DIAMETER													
0.5	13.2	15.9	20.9	22.0	26.2	33.9								
1	12.5	15.3	20.0	21.2	25.4	32.9	40.4	46.7	52.8	59.2	65.9	72.1	78.5	
1.5	11.9	14.7	19.0	20.4	24.6	31.9	39.0	45.4	51.4	57.7	64.6	70.6	77.2	
2	11.2	14.2	18.1	19.6	23.8	30.8	37.6	44.1	50.0	56.2	63.4	69.2	75.9	
2.5	10.5	13.6	17.2	18.8	23.0	29.8	36.2	42.9	48.7	54.7	62.1	67.7	74.6	
3	9.8	13.0	16.2	18.0	22.2	28.8	34.8	41.6	47.3	53.2	60.9	66.3	73.3	
3.5	9.2	12.4	15.3	17.2	21.4	27.8	33.5	40.3	45.9	51.6	59.6	64.8	71.9	
4	8.5	11.8	14.4	16.4	20.6	26.8	32.1	39.0	44.5	50.1	58.4	63.4	70.6	
4.5	7.8	11.2	13.4	15.6	19.8	25.7	30.7	37.8	43.2	48.6	57.1	61.9	69.3	
5	7.1	10.7	12.5	14.8	19.0	24.7	29.3	36.5	41.8	47.1	55.9	60.5	68.0	
5.5	6.5	10.1	12.0	14.0	18.2	23.7	27.9	35.2	40.4	45.6	54.6	59.0	66.7	
-	E O	0.5						l .						

Cable	Available Entry Threads (Alternate Metric Thread Lengths Available)			Cable Bedding Diameter		Overall Cable		Armour Range †				Across Flats	Across Corners		Combined Ordering Reference				Cable		
Gland		Standard Option			Diameter		Diameter					ridis	Corners	Protrusion	(Stainless Steel Metric)		Shroud	Gland			
Size	Thread		NPT	Thread PT Length (NPT)	NPT	Min	Max	Min	Max	Groo		Stepped Max Max	Length	Size	Туре	Ordering Suffix		Weight (Kgs)			
20516	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	57.3	20516	TE1FU	1RA4	PVC04	0.15
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	57.3	20S	TE1FU	1RA4	PVC04	0.15
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	61.2	20	TE1FU	1RA4	PVC06	0.23
255	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	74.0	25S	TE1FU	1RA4	PVC09	0.34
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	74.0	25	TE1FU	1RA4	PVC09	0.34
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	78.2	32	TE1FU	1RA4	PVC11	0.55
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	81.6	40	TE1FU	1RA4	PVC15	0.79
505	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	88.1	50S	TE1FU	1RA4	PVC18	1.00
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	91.2	50	TE1FU	1RA4	PVC21	1.37
635	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	82.4	90.5	635	TE1FU	1RA4	PVC23	1.50
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	90.3	63	TE1FU	1RA4	PVC25	1.56
755	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	104.7	755	TE1FU	1RA4	PVC28	2.45
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	110.8	75	TE1FU	1RA4	PVC30	3.15
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	135.5	90	TE1FU	1RA4	PVC32	4.62
100	M100	24.0	4"	44.0	5"	76.0	90.9	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	126.8	100	TE1FU	1RA4	LSF33	4.95
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	157.5	115	TE1FU	1RA4	LSF34	7.60
130	M130	24.0	5"	46.8	6"	97.0	114.9	110.2	123.2	0.8	1.6	3.15	4.0	157.0	172.7	164.5	130	TE1FU	1RA4	LSF35	8.73

Insert "PB" into the code for TE1FUPB glands e.g. 20TE1FUPB1RA4

Please note that the overall maximum cable bedding diameter for "PB" variants should be reduced by 1mm to allow for the inner lead sheath.

Stepped cone is for single wire armour and grooved cone is for all other armours

CMP Products Limited on its sole responsibility declares that the equipment referred to herein conforms to the requirements of the ATEX Directive 2014/34/EU and the following standards: EN60079-0:2012, EN60079-1:2007, EN60079-7:2007, EN60079-15:2010, EN60079-31:2009, BS6121:1989, EN62444:2013, EN61241-0:2004, EN61241-1:2004.



C€ 0518



Thorne & Derrick +44 (0) 191 410 4292 www.powerandcables.com

Glasshouse Street • St. Peters • Newcastle upon Tyne • NE6 1BS Tel: +44 191 265 7411 • Fax: +44 1670 715 646

E-Mail: customerservices@cmp-products.co.uk • Web: www.cmp-products.com



Notified Body: Sira Certification Service, Unit 6 Hawarden Industrial Park, Hawarden, CH5 3US, UK

















INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPES TE1FU & TE1FUPB

STAINLESS STEEL CABLE GLAND FOR USE WITH SINGLE WIRE ARMOUR (SWA), WIRE BRAID, STRIP, AND TAPE ARMOUR (TE1FUPB VERSION CAN ALSO BE USED ON CABLE WITH A LEAD SHEATH). FOR USE IN EXPLOSIVE ATMOSPHERES.

INCORPORATING EU DECLARATION OF CONFORMITY TO DIRECTIVE 2014/34/EU

CDS™ DELUGE PROOF CABLE GLAND FEATURING COMPENSATING **DISPLACEMENT SEAL SYSTEM.**

CABLE GLAND TYPE TE1FU & TE1FUPB













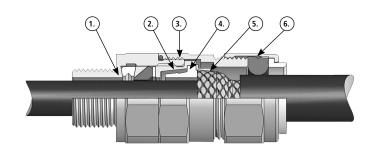




INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TE1FU & TE1FUPB

CABLE GLAND COMPONENTS

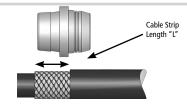
- 1. Entry Item
- 2. Compensating Sleeve
- 3. Body
- 4. Reversible Armour Cone
- 5. AnyWay Clamping Ring
- 6. Outer Seal Nut



PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE BEGINNING THE INSTALLATION

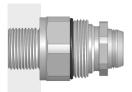


- 1. Separate the gland into two sub-assemblies, A and B, by unscrewing the body (3) from the entry item (1). Note that items (4) and (5) are loose items.
- 2. Prepare the cable by stripping back the cable outer sheath and armour to suit the equipment geometry. Expose the armour by stripping back the outer sheath further using the table below as a guide.

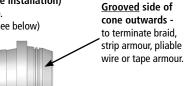


CABLE GLAND SIZE	20S/16, 20S, 20	25S, 25, 32, 40	50S, 50, 63S, 63	755, 75, 90,100,115,130
CABLE STRIP LENGTH "L"	12 mm	15 mm	18 mm	20 mm
	(0.472 inches)	(0.591 inches)	(0.709 inches)	(0.787inches)

3. Secure the entry components (sub-assembly A) into the equipment. (Not for remote installation) Pass the sub-assembly B (outer seal first) and AnyWay clamping ring (5) over the cable. Insert the reversible armour cone (4) in the sub-assembly A, orientation to suit cable (see below)



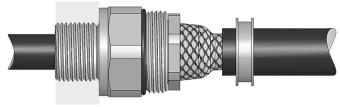
<u>Stepped</u> side of cone outwards - to terminate SWA cable.



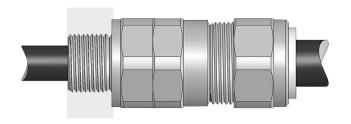
4. Pass the cable through sub-assembly A, spacing the armour or braid evenly around the cone. Whilst continuing to push the cable forward to keep the cable braid or armour in contact with the cone, tighten the compensating sleeve (2) into the entry item (1) until all the threads are used.

Note: The internal compensator will prevent the cable gland inner seal from being over-tightened onto the cable inner sheath.

The inner sheath of the TE1FUPB gland contains a device to automatically make an electrical contact with the lead sheath on the cable as the cable is installed.



5. Terminate the cable by tightening the body (3) onto the entry item (1) using a spanner on each part. Tighten the body until the body and entry components are metal to metal and cannot be tightened further.



6. Only using finger pressure, tighten the outer seal nut assembly (8) until light resistance to tightening is met.

Then either use the outer seal tightening guide tape or table on the rear of the page to determine how much further to tighten the seal using a spanner (using the outer seal tightening guide is recomended).

Wrap the outer seal tightening guide tape around the cable to show the amount of spanner turns needed (as shown here). Make sure the correct side of the outer seal tightening guide tape is used depending on the cable gland size.



