



TE1FU Ex e Ex d Ex nR Ex ta

TE1FU Globally Approved, Explosive Atmosphere Cable Gland

For all types of Armoured Cables

- Stainless steel compact design
- Fully sequential, three step installation procedure
- Reduces installation times, cost & risk
- Direct & remote installation
- Unique compensating displacement seal system(CDS)
- Metal-to-metal installation regardless of cable bedding diameter
- Integral protected deluge seal
- Designed to prevent Coldflow, see CMP Technical Document TS002
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60°C to +130°C
- Globally marked, IECEx, ATEX & cCSAus
- Superior EMC performance



† 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 armoured 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 Classifications*	Impact = Level 8, Cable Anchorage = Class D
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
Electrical Classifications*	Category B (Category A when used with braid, tape or pliable wire armour cables)
ATEX Certificate	SIRA13ATEX1073X, SIRA13ATEX4079X
Code of Protection	⊕ 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
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 II, Div 2, Groups E,F and G, Class III, Enclosure Type 4X, Oil Res II Class I, Zone 1, AEx e II, AEx nR II 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
cCSA Code of Protection	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 TC RU C-GB.AA87.B.00487
Compliance Standards	
EAC Certificate	GY118.1253X
NEPSI Certificate	P333688
CCOE / PESO (India) Certificate	TUV 11.0374X
INMETRO Approval	03866
RETIE Approval Number	LR5: 01/00172, DNV: TAE000000Y, ABS: 14-LD234401A-4-PDA, BV: 43180 A1 BV
Marine Approvals	
Ingress Protection Rating**	IP66, IP67 & IP68***
Deluge Protection Compliance	DTS01 : 91
Cable Gland Material	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

** When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request

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" Max	Across Corners "D" Max	Protrusion Length "F"	Combined Ordering Reference (Stainless Steel Metric)			Shroud	Cable Gland Weight (Kgs)	
	Standard			Option		Min	Max	Min	Max	Grooved Cone (X)	Stepped Cone (W)	Max	Max				Length	Size	Type			Ordering Suffix
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT																	
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	57.3	20S16	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	
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	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	
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	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	
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	82.4	90.5	63S	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	
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	104.7	75S	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	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	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	-	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	

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: 32TE1FU1RA434 = Stainless Steel 1 1/4" NPT, 50S1TE1FU1RA435 = 1 1/2" NPT, 25TE1FU1RA432 = Stainless Steel 3/4" NPT

Dimensions are displayed in millimetres unless otherwise stated