



**E1FX**

Ex e Ex d Ex nR Ex ta

**E1FX Internationally Approved, Explosive Atmosphere Cable Gland**

**For Braid & Steel Tape Armoured Cables**

- Metal-to-metal armour clamping
- Direct & remote installation
- Displacement type flameproof inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Designed to prevent Coldflow
- -60°C to +130°C
- Class I Zone 1, 21 and Zone 2, 22 Class I Division 2 ABCD
- Globally marked, IECEx, ATEX & 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.

TECHNICAL DATA	
Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Mechanical Classifications*	Impact = Level 8, Retention = Class B
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	SIRA13ATEX1071X, SIRA13ATEX4077X
Code of Protection	⊕ II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIC Da, Ⓢ II 3G Ex nR IIC Gc, Ⓢ IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0026X, IECEx SIM 14.0007X
Code of Protection	Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIC Da, Ex d I Mb, Ex e I Mb
Compliance Standards	IEC 60079-0,1,7,15,31
cCSAus Certificate	1310517
Code of Protection	Ex d IIC; Ex e II; Ex nR II; Class I, Div 2, Groups A,B,C,D, Class II, Div 2 Groups E,F,G, Class III; End Type 4X Class I, Zone 1, AEx e II / AEx nR II
Compliance Standards	CAN/CSA-C22.2 No 0.18,25,30,174,94, CAN/CSA-E60079-0,1,7,15, ANS/UL 514B Ed 5, ANS/UL 50 Ed 11, ANS/UL 2225 Ed 4, UL60079-0,1,7,15
EAC Certificate (Formerly GOST R, K & B)	TC RU C-GB.FB05.B00138
KCC Certificate	14-GA4B0-0257X
CCOE / PESO (India) Certificate	P333688
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
INMETRO Approval	TÜV 12.0618X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3), DNV: E-13848, ABS: 14-LD234401A-4-PDA
Ingress Protection Rating	IP66 as standard (IP67, IP68 available upon request)**
Deluge Protection Compliance	DTS01:91 option available on request (white ferrule for identification purposes)
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Aluminium
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
Cable Type	Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Wire Braid Armour (e.g. SWB), Aluminium Strip Armour (ASA), Armoured & Jacketed
Armour Clamping	Detachable Armour Cone & AnyWay Universal Clamping Ring
Sealing Technique	CMP Inner Displacement Seal & Unique CMP 'LRS'™ Outer Load Retention Seal
Sealing Area(s)	Cable Inner Bedding & Outer Cable Sheath

Note : \* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444  
 Note : \*\* 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

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Cable Bedding Diameter "A"		Overall Cable Diameter "B"		Armour Range † Grooved Cone (X)		Across Flats "D"		Across Corners "D"		Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option	Min	Max	Min	Max	Min	Max	Max	Max	Max	Max		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	24.0	26.4	72.5	20S16	E1FX	1RA	PVC04	0.16		
20S	M20	15.0	1/2"	19.9	3/4"	6.1	11.6	9.5	15.9	0.3	1.0	24.0	26.4	70.0	20S	E1FX	1RA	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	30.5	33.6	73.0	20	E1FX	1RA	PVC06	0.21		
25S	M25	15.0	3/4"	20.2	1"	11.1	19.9	14.0	22.0	0.4	1.2	37.5	41.3	89.0	25S	E1FX	1RA	PVC09	0.33		
25	M25	15.0	3/4"	20.2	1"	11.1	19.9	18.2	26.2	0.4	1.2	37.5	41.3	89.0	25	E1FX	1RA	PVC09	0.33		
32	M32	15.0	1"	25.0	1 1/4"	17.0	26.2	23.7	33.9	0.4	1.2	46.0	50.6	86.0	32	E1FX	1RA	PVC11	0.43		
40	M40	15.0	1 1/4"	25.6	1 1/2"	22.0	32.1	27.9	40.4	0.4	1.6	55.0	60.5	90.0	40	E1FX	1RA	PVC15	0.62		
50S	M50	15.0	1 1/2"	26.1	2"	29.5	38.1	35.2	46.7	0.4	1.6	60.0	66.0	91.0	50S	E1FX	1RA	PVC18	0.75		
50	M50	15.0	2"	26.9	2 1/2"	35.6	44.0	40.4	53.0	0.6	1.6	70.1	77.1	95.0	50	E1FX	1RA	PVC21	0.95		
63S	M63	15.0	2"	26.9	2 1/2"	40.1	49.9	45.6	59.4	0.6	1.6	75.0	82.5	102.0	63S	E1FX	1RA	PVC23	1.34		
63	M63	15.0	2 1/2"	39.9	3"	47.2	55.9	54.6	65.8	0.6	1.6	80.0	88.0	104.0	63	E1FX	1RA	PVC25	1.34		
75S	M75	15.0	2 1/2"	39.9	3"	52.8	61.9	59.0	72.0	0.6	1.6	90.0	99.0	115.0	75S	E1FX	1RA	PVC28	2.11		
75	M75	15.0	3"	41.5	3 1/2"	59.1	67.9	66.7	78.4	0.6	1.6	100.0	110.0	117.0	75	E1FX	1RA	PVC30	2.42		
90	M90	24.0	3 1/2"	42.8	4"	66.6	78.6	76.2	90.3	0.8	1.6	114.3	125.4	147.0	90	E1FX	1RA	PVC32	4.21		
100	M100	24.0	4"	44.0	5"	76.0	90.9	86.1	101.4	0.8	1.6	123.0	135.3	140.0	100	E1FX	1RA	LSF33	4.45		
115	M115	24.0	4"	44.0	5"	86.0	97.9	101.5	110.2	0.8	1.6	133.4	146.7	162.0	115	E1FX	1RA	LSF34	6.19		
130	M130	24.0	5"	46.8	6"	97.0	114.9	110.2	123.2	0.8	1.6	152.4	167.6	174.0	130	E1FX	1RA	LSF35	8.34		

\*Note : For material options please add the following suffix to change the Ordering Reference : Brass (no suffix required), Nickel Plated Brass "5", 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 'O')

Examples: 32E1FX1RA534 = Nickel Plated Brass 1-1/4" NPT, 50SE1FX1RA035 = Brass 1-1/2" NPT, 20E1FX1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated