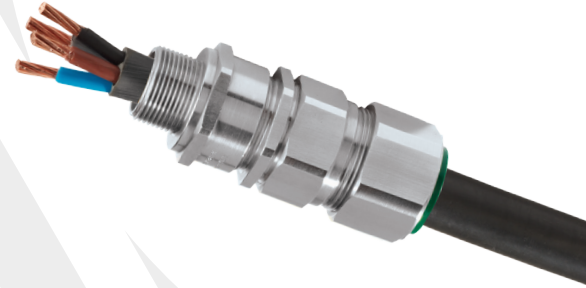


# E1FX

**E1FX INTERNATIONALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND**

**FOR BRAIDED & STEEL TAPE ARMoured CABLES**

- Metal-to-metal armour clamping
- Direct & remote installation
- Displacement type flameproof inner seal
- Controlled outer 'load retention' seal
- Designed to prevent coldflow, see CMP Technical Document TSO01
- Unique OSTG prevents overtightening
- -60°C to +130°C
- Globally marked, IECEx, ATEX & cCSAus
- Superior EMC performance

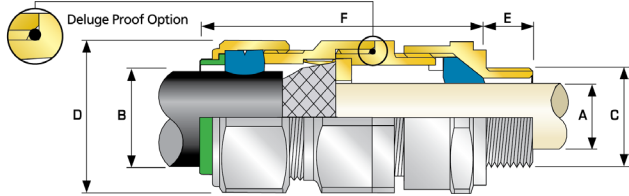


<b>IP66</b>	<b>IP67</b>	<b>IP68</b>
<b>EMC</b>		<b>+130°C</b> ↑ <b>-60°C</b>

<b>Ex eb</b>	<b>Ex db</b>	<b>Ex ta</b>	<b>Ex nR</b>
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TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = 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)
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
SEALING TECHNIQUE	CMP Inner Displacement Seal & Unique CMP 'LRS' <sup>TM</sup> Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding & Outer Cable Sheath
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring

\* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 \*\* When CMP installation accessories are used. Refer to [www.cmp-products.com](http://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



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1324X, CML18ATEX4316X	IECEx CERTIFICATE	IECEx CML 18.0181X, IECEx SIM 14.0007X
CODE OF PROTECTION	⊕ II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, ⊕ II 3G Ex nR IIC Gc, ⊕ I M2 Ex db I Mb, Ex eb I Mb	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb, Ex eb I Mb
COMPLIANCE STANDARDS	EN 60079-0, 1, 7, 15, 31	COMPLIANCE STANDARDS	IEC 60079-0, 1, 7, 15, 31
cSAus CERTIFICATE (20S16 - 90)	1310517		
CSAus CODE OF PROTECTION	Class II, Div 2, Groups E, F and G, Class III, Enclosure Type 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 4X, Ex d IIC, Ex e II, Ex nR II		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-60079-0, 1, 7, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL 60079-0, 1, 7		
EAC CERTIFICATE	TC RU C-GB-AA87.B.00487	CCOE / PESO (INDIA) CERTIFICATE	P444949
NEPSI CERTIFICATE	GYJ18.1251X	INMETRO APPROVAL	TÜV 12.0618X
RETIE APPROVAL NUMBER	03866		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 14-LD234401A-4-PDA, BV: 43180 A1 BV		
KCS KOSHA CERTIFICATE	14-GA4B0-0257X		
UkrSEPRO	CLL 19.0371X		



\* 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 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.

COMBINED ORDERING REFERENCE ("BRASS METRIC")			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"	SHROUD	CABLE GLAND WEIGHT (Kgs)
			STANDARD			OPTION														
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) "E"	NPT	THREAD LENGTH (NPT) "E"	NPT	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX	MAX	MAX			
20S16	E1FX	1RA	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	PVC04	0.16		
20S	E1FX	1RA	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	PVC04	0.15		
20	E1FX	1RA	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	PVC06	0.21		
25S	E1FX	1RA	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	PVC09	0.33		
25	E1FX	1RA	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	PVC09	0.33		
32	E1FX	1RA	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	PVC11	0.43		
40	E1FX	1RA	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	PVC15	0.62		
50S	E1FX	1RA	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	PVC18	0.75		
50	E1FX	1RA	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	PVC21	0.95		
63S	E1FX	1RA	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	PVC23	1.34		
63	E1FX	1RA	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	PVC25	1.34		
75S	E1FX	1RA	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	PVC28	2.11		
75	E1FX	1RA	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	PVC30	2.42		
90	E1FX	1RA	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	PVC32	4.21		
100	E1FX	1RA	M100	24.0	3 1/2"	42.8	4"	76.0	90.9	86.1	101.4	0.8	1.6	123.0	135.3	140.0	LSF33	4.45		
115	E1FX	1RA	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	LSF34	6.19		
130	E1FX	1RA	M130	24.0	5"	46.8	-	97.0	114.9	110.2	123.2	0.8	1.6	152.4	167.6	174.0	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 '0')

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

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary, please see supplementary technical data sheet.