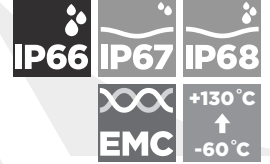


# E2FX

## E2FX INTERNATIONALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

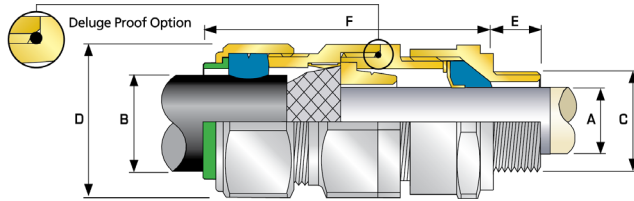
### FOR LEAD SHEATHED BRAIDED & STEEL TAPE ARMoured CABLES

- Effectively earths / grounds lead sheathed cables
- Metal-to-metal armour clamping
- Direct and remote installation
- Displacement type flameproof inner seal
- Controlled outer load retention seal
- Designed to reduce the effects of coldflow, see CMP Technical Document TS001
- Unique OSTG prevents overtightening
- -60°C to +130°C
- Globally marked cCSAus, IECEx, ATEX and UKEX
- Superior EMC performance



TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and 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	Lead Sheathed and Wire Braid Armour (LC/SWB), Lead Sheathed and Pliable Wire Armour (LC/PWA), Lead Sheathed and Steel Tape Armour (LC/STA), Lead Sheathed and Strip Armour (LC/ASA)
SEALING TECHNIQUE	CMP Inner Displacement Seal and Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding and Outer Cable Sheath
ARMOUR CLAMPING	Detachable Armour Cone and AnyWay Universal Clamping Ring

\* Mechanical and Electrical Classifications applied as per IEC 62444 and 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, alternative depths / durations can be provided upon request



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1324X, CML18ATEX4316X	IECEx CERTIFICATE	IECEx CML 18.0181X
UKEX CERTIFICATE	CML 21UKEX1252X, CML 21UKEX4253X		
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
cCSAus CERTIFICATE (2016-90)	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 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, 15, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0, 1, 7, 15		
EAC CERTIFICATE	EA3C RU C-GB.A.07.B.0252/20	CCOE / PESO (INDIA) CERTIFICATE	P548696, P533772, P548695
CCC CERTIFICATE	2020322313002870	INMETRO APPROVAL	TÜV 12.0618X
RETE APPROVAL NUMBER	EL-CS-220061	ECAS CERTIFICATE	24-03-106290/E24-03-110155/NB0007
KCS KOSHA CERTIFICATE	14-GA4B0-0257X	UKSEPRO CERTIFICATE	CL1 19.0371X
SANS	MS-XPL/21.0010 X		
MARINE APPROVALS	LRS: LR22320739TA, DNV: TAE00000V, ABS: 20-1948801-1-PDA, BV: 43180		



† 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 braided 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' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)						LEAD SHEATH DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE* GROOVED CONE (X)		ACROSS FLATS 'D'		ACROSS CORNERS 'D'		PROTRUSION LENGTH 'F'		SHROUD	CABLE GLAND WEIGHT (kg)
			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	MAX	MAX	MAX		
20S16	E2FX	1RA	M20	15.0	1/2"	19.9	3/4"	3.1	7.8	6.1	13.1	0.3	1.0	24.0	26.4	72.5	70.0	PVC04	0.16			
20S	E2FX	1RA	M20	15.0	1/2"	19.9	3/4"	6.1	11.0	9.5	15.9	0.3	1.0	24.0	26.4	70.0	70.0	PVC04	0.15			
20	E2FX	1RA	M20	15.0	1/2"	19.9	3/4"	6.5	13.4	12.5	20.9	0.4	1.0	30.5	33.6	73.0	73.0	PVC06	0.21			
25S	E2FX	1RA	M25	15.0	3/4"	20.2	1"	11.1	19.3	14.0	22.0	0.4	1.2	37.5	41.3	89.0	89.0	PVC09	0.33			
25	E2FX	1RA	M25	15.0	3/4"	20.2	1"	11.1	19.3	18.2	26.2	0.4	1.2	37.5	41.3	89.0	89.0	PVC09	0.33			
32	E2FX	1RA	M32	15.0	1"	25.0	1 1/4"	17.0	25.5	23.7	33.9	0.4	1.2	46.0	50.6	86.0	86.0	PVC11	0.43			
40	E2FX	1RA	M40	15.0	1 1/4"	25.6	1 1/2"	22.0	31.2	27.9	40.4	0.4	1.6	55.0	60.5	90.0	90.0	PVC15	0.63			
50S	E2FX	1RA	M50	15.0	1 1/2"	26.1	2"	29.5	37.2	35.2	46.7	0.4	1.6	60.0	66.0	91.0	91.0	PVC18	0.76			
50	E2FX	1RA	M50	15.0	2"	26.9	2 1/2"	35.6	42.6	40.4	53.0	0.6	1.6	70.1	77.1	95.0	95.0	PVC21	0.95			
63S	E2FX	1RA	M63	15.0	2"	26.9	2 1/2"	40.1	48.5	45.6	59.4	0.6	1.6	75.0	82.5	102.0	102.0	PVC23	1.35			
63	E2FX	1RA	M63	15.0	2 1/2"	39.9	3"	47.2	54.2	54.6	65.8	0.6	1.6	80.0	88.0	104.0	104.0	PVC25	1.95			
75S	E2FX	1RA	M75	15.0	2 1/2"	39.9	3"	52.8	60.2	59.0	72.0	0.6	1.6	90.0	99.0	115.0	115.0	PVC28	2.12			
75	E2FX	1RA	M75	15.0	3"	41.5	3 1/2"	59.1	65.2	66.7	78.4	0.6	1.6	100.0	110.0	117.0	117.0	PVC30	2.43			
90	E2FX	1RA	M90	24.0	3 1/2"	42.8	4"	66.6	77.1	76.2	90.3	0.8	1.6	114.3	125.4	147.0	147.0	PVC32	4.23			
100	E2FX	1RA	M100	24.0	3 1/2"	42.8	4"	76.0	88.1	86.1	101.4	0.8	1.6	123.0	135.3	140.0	140.0	LSF33	4.47			
115	E2FX	1RA	M115	24.0	4"	44.0	5"	86.0	94.1	101.5	110.2	0.8	1.6	133.4	146.7	162.0	162.0	LSF34	6.22			
130	E2FX	1RA	M130	24.0	5"	46.8	-	97.0	110.1	110.2	123.2	0.8	1.6	152.4	167.6	174.0	174.0	LSF35	8.38			

Note : For material options please add the following suffix to change the ordering reference ; Brass (no suffix required), Nickel Plated Brass "S", 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: 32E2FX1RA534 = Nickel Plated Brass 1 1/4" NPT, 50SE2FX1RA035 = Brass 1 1/2" NPT, 20E2FX1RA5 = 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.