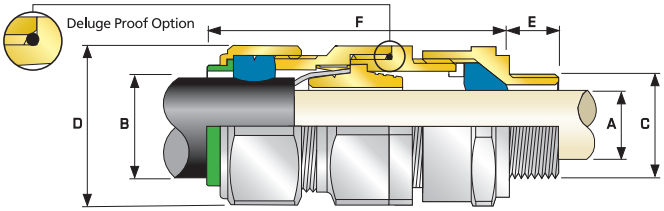

E1FU

Ex e Exd ExnR Exta

E1FU Globally Approved, Explosive Atmosphere Cable Gland

For all types of 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 TS001
- Unique OSTG prevents overtightening
- -60˚C to +130˚C
- Globally marked, IECEx, ATEX & cCSAus
- Superior EMC performance

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	CML 18ATEX1324X, CML 18ATEX4316X
Code of Protection	Ⓔx II 2G, II 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx II 3G Ex nR IIC Gc, Ⓔx IM2 Ex db I Mb, Ex eb I Mb
Compliance Standards	EN 60079-0,1,7,15,31
IECEx Certificate	IECEx CML 18.0181X, IECEx SIM 14.0007X
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	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 3, 4 and 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 IIC, Ex nR II
Compliance Standards	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
EAC Certificate (Formerly GOST R & K)	TC RU C-GB.AA87.B.00487
UkrSEPRO	UA.TR.047.C.0644-15
KCs KOSHA Certificate	14-GA4BO-0257X
NEPSI Certificate	GYJ18.1251X
CCOE / PESO (India) Certificate	P333688
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
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	Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Steel Tape Armour (STA), Wire Braid Armour (e.g. SWB), Aluminium Strip Armour (ASA), Pliable Wire Armour (PWA), Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Armoured & Jacketed
Armour Clamping	Reversible 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

** 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*

† ***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.*

Stepped (W) Cone *is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.*

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"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option					Grooved Cone (X)		Stepped Cone (W)									
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Min	Max	Min	Max	Min	Max	Min	Max	Max	Max		Size	Type	Ordering Suffix		
20S16	M20	15.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	72.5	20S16	E1FU	1RA	PVC04	0.16
20S	M20	15.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	70.0	20S	E1FU	1RA	PVC04	0.15
20	M20	15.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	73.0	20	E1FU	1RA	PVC06	0.21
25S	M25	15.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	89.0	25S	E1FU	1RA	PVC09	0.33
25	M25	15.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	89.0	25	E1FU	1RA	PVC09	0.33
32	M32	15.0	1"	25.0	1 ¼"	17.0	26.2	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	86.0	32	E1FU	1RA	PVC11	0.43
40	M40	15.0	1 ¼"	25.6	1 ½"	22.0	32.1	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	90.0	40	E1FU	1RA	PVC15	0.62
50S	M50	15.0	1 ½"	26.1	2"	29.5	38.1	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	91.0	50S	E1FU	1RA	PVC18	0.75
50	M50	15.0	2"	26.9	2 ½"	35.6	44.0	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	95.0	50	E1FU	1RA	PVC21	0.95
63S	M63	15.0	2"	26.9	2 ½"	40.1	49.9	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	102.0	63S	E1FU	1RA	PVC23	1.34
63	M63	15.0	2 ½"	39.9	3"	47.2	55.9	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	104.0	63	E1FU	1RA	PVC25	1.34
75S	M75	15.0	2 ½"	39.9	3"	52.8	61.9	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	115.0	75S	E1FU	1RA	PVC28	2.11
75	M75	15.0	3"	41.5	3 ½"	59.1	67.9	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	117.0	75	E1FU	1RA	PVC30	2.42
90	M90	24.0	3 ½"	42.8	4"	66.6	78.6	76.2	90.3	0.8	1.6	3.15	4.0	114.3	125.4	147.0	90	E1FU	1RA	PVC32	4.21
100	M100	24.0	3 ½"	42.8	4"	76.0	90.9	86.1	101.4	0.8	1.6	3.15	4.0	123.0	135.3	140.0	100	E1FU	1RA	LSF33	4.45
115	M115	24.0	4"	44.0	5"	86.0	97.9	101.5	110.2	0.8	1.6	3.15	4.0	133.4	146.7	162.0	115	E1FU	1RA	LSF34	6.19
130	M130	24.0	5"	46.8	-	97.0	114.9	110.2	123.2	0.8	1.6	3.15	4.0	152.4	167.6	174.0	130	E1FU	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; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')
Examples: 32E1FU1RA534 = Nickel Plated Brass 1¼" NPT, 50SE1FU1RA035 = Brass 1½" NPT, 20E1FU1RA5 = Nickel Plated Brass M20
Dimensions are displayed in millimetres unless otherwise stated