FORTRA
E SERIES



Shown with optional face seal

Ex db | Ex eb | Ex ta | Ex nR

IP66 | IP67 | IP68 | IP 69K

EMC | NEMA 4X | NEMA 6P | DELUGE PROTECTED | +105°C / -60°C

E1FW

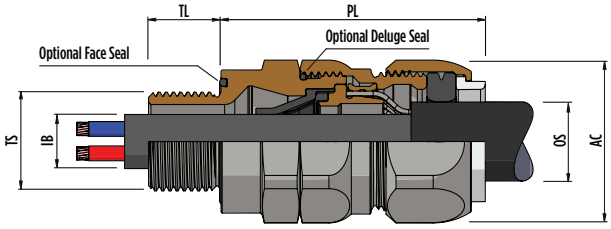
FOR ALL TYPES OF STEEL AND ALUMINIUM WIRE ARMOURED CABLES

- Flameproof inner diaphragm seal – safe, reliable & robust; no installation or inspection ambiguity
- Excellent cold flow performance with third party verified test report on cable types used globally
- Dedicated captive cone for wire armour, with 'AnyWay' clamping ring
- Metal-to-metal armour clamping; no installation or inspection ambiguity
- Outer seal with wider cable acceptance, meaning fewer stocking sizes
- IP66 as standard with option to fit fully enclosed/protected deluge seal for IP67 68 69 & 69K & third party compliance to DTS 01:91 & NEMA 4X & 6P
- Compact design; ideal for applications with limited installation space
- Fewer installation steps for faster process
- Fewer tools required for installation and maintenance

TECHNICAL DATA	
DESIGN SPECIFICATION	BS 6121-1, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	16-20S Impact = Category 6, 20-130 Impact = Category 8 Wire Armour Anchorage = Type D
ENCLOSURE PROTECTION	16-20S IK08 to IEC 62262 (7 joules) 20-130 IK10 to IEC 62262 (20 joules)
ELECTRICAL CLASSIFICATION	Category B
INGRESS PROTECTION RATING**	IP66 as standard (Order E1FWD for IP67, IP68***, IP69 and IP69K option)
TYPE RATING**	Order E1FWD for NEMA 4X & 6P
DELUGE PROTECTION COMPLIANCE	Order E1FWD for compliance with DTS 01:91
SERVICE TEMPERATURE	-60 to +105 °C
ARMOUR CLAMPING	Dedicated Captive Armour Cone and 'AnyWay' Clamping Ring
SEAL MATERIAL	LSF Halogen Free Silicone
SEALING TECHNIQUE	CMP Inner Flameproof Diaphragm Seal and Outer Environmental/ Load Retention Seal
SEALING AREA (S)	Cable Inner Bedding and Cable Outer Sheath
MATERIAL OPTIONS	Brass†, Electroless Nickel Plated Brass, Aluminium, Stainless Steel
CABLE TYPE (S)	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444
** When CMP installation accessories are used. Refer to www.cmp-products.com for further information
*** IP68 tested to a depth of 30 metres for 7 days, alternative depths / durations can be provided on request
† Not available with NEMA type 4X and 6P

CERTIFICATIONS			
ATEX CERTIFICATE NUMBER	CML 24ATEX1333X, CML 24ATEX4334X	IECEx CERTIFICATE NUMBER	IECEx CML 24.0137X
UKEX CERTIFICATE NUMBER	CML 24UKEX1335X, CML 24UKEX4336X		
ATEX & UKEX CODE OF PROTECTION	Ex I M2 Ex db I Mb, Ex eb I Mb; Ex II 2G 3G 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc	IECEx CODE OF PROTECTION	Ex db I Mb, Ex eb I Mb, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc
ATEX & UKEX COMPLIANCE STANDARDS	EN 60079-0, -1, -7, -15, -31	IECEx COMPLIANCE STANDARDS	IEC 60079-0, -1, -7, -15, -31
EAC CERTIFICATE NUMBER	EAЭC KZ 7100841.01.01.07859		
EAC CODE OF PROTECTION	1Ex db IIC Gb X, 1Ex eb IIC Gb X, 2Ex nR IIC Gc X, Ex ta IIIC Da X		
cCSAus CERTIFICATE	Contact CMP for full details		
UkrSEPRO CERTIFICATE NUMBER	СЦ 25.1094X		
MARINE APPROVALS	LR: LR22320739TA, ABS: 25-0285992-PDA, DNV: TAE000000Y. BV: 43180		
INMETRO CERTIFICATE NUMBER	TÜV 25.0801X		
INDUSTRIAL CERTIFICATE NUMBER	CML 24CA17921		
TAIWAN CERTIFICATE NUMBER	ML141200751312		
PESO CERTIFICATE NUMBER	P640726/2, P640727/2, P640727/6		
CCC CERTIFICATE NUMBER	2026322313007163		



COMBINED ORDERING REFERENCE			ENTRY THREAD SIZE 'TS'	ENTRY THREAD PITCH	MINIMUM THREAD LENGTH 'TL'	INNER CABLE BEDDING DIAMETER 'IB'		OVERALL CABLE DIAMETER 'OS'		ARMOUR THICKNESS		MAX ACROSS FLATS	MAX ACROSS CORNERS 'AC'	MAX PROTRUSION LENGTH 'PL'	SHROUD SIZE	ASSEMBLY WEIGHT (KG)
SIZE	TYPE	ORDERING SUFFIX				MIN	MAX	MIN	MAX	MIN	MAX					
20S16‡	E1FW	502	M20	1.5	15.0	3.1	7.0	6.1	13.2	0.8	1.25	24.0	26.4	56.0	04	0.11
20S‡	E1FW	502	M20	1.5	15.0	6.0	11.6	9.5	15.9	0.8	1.25	24.0	26.4	56.0	04	0.11
20	E1FW	502	M20	1.5	15.0	8.0	14.0	12.5	20.9	0.8	1.25	30.0	33.0	60.0	06	0.17
25	E1FW	503	M25	1.5	15.0	11.0	19.5	16.0	26.2	1.25	1.6	37.5	41.3	73.5	09	0.30
32	E1FW	504	M32	1.5	15.0	17.0	26.5	21.5	33.9	1.6	2.0	46.0	50.6	78.5	11	0.44
40	E1FW	505	M40	1.5	15.0	22.0	32.0	28.0	40.4	1.6	2.0	55.0	60.5	83.5	15	0.63
50	E1FW	506	M50	1.5	15.0	29.5	44.0	38.0	53.2	2.0	2.5	70.0	77.0	95.0	21	1.05
63	E1FW	507	M63	1.5	15.0	41.5	55.0	52.0	66.0	2.0	2.5	80.0	88.0	106.0	25	1.28
75	E1FW	508	M75	1.5	15.0	53.5	68.0	64.5	78.5	2.5	3.15	100.0	110.0	106.0	30	2.24
90	E1FWD	509	M90	2	24.0	66.0	78.5	75.0	90.5	3.15	4.0	114.0	125.4	136.0	32	4.30
100	E1FWD	5010	M100	2	24.0	76.0	90.5	86.0	101.5	3.15	4.0	123.0	135.3	141.0	33	4.42
115	E1FWD	5011	M115	2	24.0	86.0	98.0	101.0	110.5	3.15	4.0	133.0	146.3	155.5	34	6.13
130	E1FWD	5012	M130	2	24.0	97.5	115.0	110.0	123.5	3.15	4.0	153.0	168.3	165.7	35	8.11

Dimensions listed are for cable glands with metric equipment entry threads only. Alternative entry thread types e.g. NPT are available; dimensions may vary.

Part numbers listed are for nickel plated brass cable glands only. Alternative materials are available. ‡ Also available in M16 on request

For material options, please change the 'material suffix', which is the first digit in the 'ordering suffix'. Brass = 0, Stainless Steel = 4 and Nickel Plated Brass = 5.
Examples: 20E1FW002 = Brass M20, 40E1FW405 = Stainless Steel M40

For NPT thread options, please change the second digit in the 'ordering suffix' to 3 (denotes NPT) and change the final digit to denote the thread size i.e. ½" = 31, ¾" = 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, 5" = 312. Examples: 32E1FW533 = Nickel Plated Brass 1" NPT, 50E1FW436 = Stainless Steel 2" NPT