

**E1FW**



**E1FW Globally Approved, Explosive Atmosphere Cable Gland**

**For all types of Steel & Aluminium Wire Armoured Cables**

- Metal-to-metal armour clamping
- Direct & remote installation
- Displacement type flameproof inner seal
- Controlled outer 'load retention' seal
- 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
ATEX Certificate	SIRA13ATEX1071X, SIRA13ATEX4077X
Code of Protection	Ⓜ II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC 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 IIIC Da, Ex d I Mb, Ex e I Mb
Compliance Standards	IEC 60079-0,1,7,15,31
cCSAus Certificate (20S16 - 90)	1310517
CSAus 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 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 3, 4 and 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	TC RU C-GB.ГБ05.В00138
UkrSEPRO	UA.TR.047.C.0644-15
KCS Certificate	14-GA480-0257X
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, BV: 43180/A1
Ingress Protection Rating**	IP66 as standard (IP67, IP68*** available upon request)
Deluge Protection Compliance	DT501:91 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)
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

\* 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

**Cable Gland Selection Table**

Refer to illustration at the top of the page.

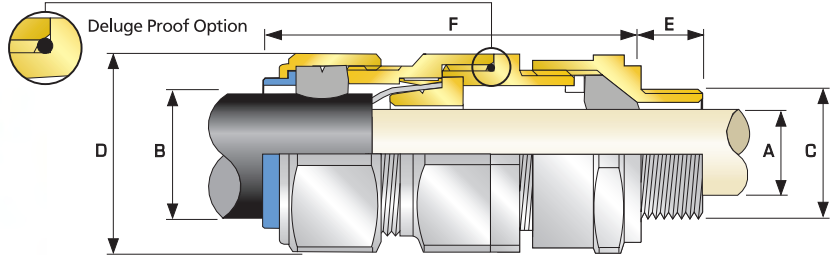
Dimensions listed below are for metric cable glands only  
 Dimensions for alternative threads may vary, please see supplementary technical data sheet

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 "E"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard			Option		Min	Max	Min	Max	Min	Max				Max	Max	Size		
	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	0.8	1.25	24.0	26.4	72.5	20S16	E1FW	1RA	PVC04	0.16
20S	M20	15.0	1/2"	19.9	3/4"	6.1	11.6	9.5	15.9	0.8	1.25	24.0	26.4	70.0	20S	E1FW	1RA	PVC04	0.15
20	M20	15.0	1/2"	19.9	3/4"	6.5	13.9	12.5	20.9	0.8	1.25	30.5	33.6	73.0	20	E1FW	1RA	PVC06	0.21
25S	M25	15.0	3/4"	20.2	1"	11.1	19.9	14.0	22.0	1.25	1.6	37.5	41.3	89.0	25S	E1FW	1RA	PVC09	0.33
25	M25	15.0	3/4"	20.2	1"	11.1	19.9	18.2	26.2	1.25	1.6	37.5	41.3	89.0	25	E1FW	1RA	PVC09	0.33
32	M32	15.0	1"	25.0	1 1/4"	17.0	26.2	23.7	33.9	1.6	2.0	46.0	50.6	86.0	32	E1FW	1RA	PVC11	0.43
40	M40	15.0	1 1/4"	25.6	1 1/2"	22.0	32.1	27.9	40.4	1.6	2.0	55.0	60.5	90.0	40	E1FW	1RA	PVC15	0.62
50S	M50	15.0	1 1/2"	26.1	2"	29.5	38.1	35.2	46.7	2.0	2.5	60.0	66.0	91.0	50S	E1FW	1RA	PVC18	0.75
50	M50	15.0	2"	26.9	2 1/2"	35.6	44.0	40.4	53.0	2.0	2.5	70.1	77.1	95.0	50	E1FW	1RA	PVC21	0.95
63S	M63	15.0	2"	26.9	2 1/2"	40.1	49.9	45.6	59.4	2.0	2.5	75.0	82.5	102.0	63S	E1FW	1RA	PVC23	1.34
63	M63	15.0	2 1/2"	39.9	3"	47.2	55.9	54.6	65.8	2.0	2.5	80.0	88.0	104.0	63	E1FW	1RA	PVC25	1.34
75S	M75	15.0	2 1/2"	39.9	3"	52.8	61.9	59.0	72.0	2.0	2.5	90.0	99.0	115.0	75S	E1FW	1RA	PVC28	2.11
75	M75	15.0	3"	41.5	3 1/2"	59.1	67.9	66.7	78.4	2.5	3.0	100.0	110.0	117.0	75	E1FW	1RA	PVC30	2.42
90	M90	24.0	3 1/2"	42.8	4"	66.6	78.6	76.2	90.3	3.15	4.0	114.3	125.4	147.0	90	E1FW	1RA	PVC32	4.21
100	M100	24.0	3 1/2"	42.8	4"	76.0	90.9	86.1	101.4	3.15	4.0	123.0	135.3	140.0	100	E1FW	1RA	LSF33	4.45
115	M115	24.0	4"	44.0	5"	86.0	97.9	101.5	110.2	3.15	4.0	133.4	146.7	162.0	115	E1FW	1RA	LSF34	6.19
130	M130	24.0	5"	46.8	-	97.0	114.9	110.2	123.2	3.15	4.0	152.4	167.6	174.0	130	E1FW	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 please 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: 32E1FW1RA534 = Nickel Plated Brass 1 1/4" NPT, 50SE1FW1RA035 = Brass 1 1/2" NPT, 20E1FW1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



**E1W**

**E1W Double Seal Industrial Cable Gland**

**For all types of Steel & Aluminium Wire Armoured Cables**

- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Displacement type inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Deluge protection option
- -60°C to +130°C
- Superior EMC performance



**TECHNICAL DATA**

<b>Design Specification</b>	BS 6121:Part 1:1989, IEC 62444, EN 62444
<b>Mechanical Classifications*</b>	Impact = Level 8, Cable Anchorage = Class D
<b>Enclosure Protection</b>	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
<b>Electrical Classifications*</b>	Category B
<b>Marine Approvals</b>	LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA
<b>GOST R Certificate</b>	POCC GB.AF35.H00102
<b>Ingress Protection Rating**</b>	IP66 as standard (IP67, IP68*** available upon request)
<b>Cable Gland Material</b>	Brass, Electroless Nickel Plated Brass, Aluminium
<b>Seal Material</b>	CMP Thermoset Rubber
<b>Cable Type</b>	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
<b>Armour Clamping</b>	Detachable Armour Cone & AnyWay Universal Clamping Ring
<b>Sealing Technique</b>	CMP Inner Displacement Seal & Unique CMP 'LRS'™ Outer Load Retention Seal
<b>Sealing Area(s)</b>	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

**Cable Gland Selection Table**

Refer to illustration at the top of the page.

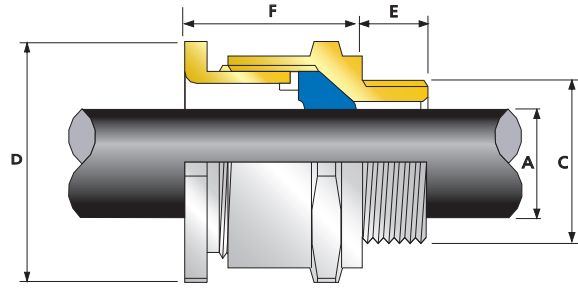
Dimensions listed below are for metric cable glands only  
Dimensions for alternative threads may vary, please see supplementary technical data sheet

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		Min	Max	Min	Max	Min	Max	Max	Max		Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT														
20S16	M20	10.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.8	1.25	24.0	26.4	72.5	20S16	E1W	1RA	PVC04	0.163
20S	M20	10.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.8	1.25	24.0	26.4	70.0	20S	E1W	1RA	PVC04	0.150
20	M20	10.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.8	1.25	30.5	33.6	73.0	20	E1W	1RA	PVC06	0.210
25S	M25	10.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	1.25	1.6	37.5	41.3	89.0	25S	E1W	1RA	PVC09	0.330
25	M25	10.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	1.25	1.6	37.5	41.3	89.0	25	E1W	1RA	PVC09	0.330
32	M32	10.0	1"	25.0	1 ¼"	17.0	26.2	23.7	33.9	1.6	2.0	46.0	50.6	86.0	32	E1W	1RA	PVC11	0.430
40	M40	15.0	1 ¼"	25.6	1 ½"	22.0	32.1	27.9	40.4	1.6	2.0	55.0	60.5	90.0	40	E1W	1RA	PVC15	0.620
50S	M50	15.0	1 ½"	26.1	2"	29.5	38.1	35.2	46.7	2.0	2.5	60.0	66.0	91.0	50S	E1W	1RA	PVC18	0.750
50	M50	15.0	2"	26.9	2 ½"	35.6	44.0	40.4	53.0	2.0	2.5	70.1	77.1	95.0	50	E1W	1RA	PVC21	0.950
63S	M63	15.0	2"	26.9	2 ½"	40.1	49.9	45.6	59.4	2.0	2.5	75.0	82.5	102.0	63S	E1W	1RA	PVC23	1.340
63	M63	15.0	2 ½"	39.9	3"	47.2	55.9	54.6	65.8	2.0	2.5	80.0	88.0	104.0	63	E1W	1RA	PVC25	1.340
75S	M75	15.0	2 ½"	39.9	3"	52.8	61.9	59.0	72.0	2.0	2.5	90.0	99.0	115.0	75S	E1W	1RA	PVC28	2.110
75	M75	15.0	3"	41.5	3 ½"	59.1	67.9	66.7	78.4	2.5	3.0	100.0	110.0	117.0	75	E1W	1RA	PVC30	2.420
90	M90	24.0	3 ½"	42.8	4"	66.6	78.6	76.2	90.3	3.15	4.0	114.3	125.4	147.0	90	E1W	1RA	PVC32	4.210
100	M100	24.0	4"	44.0	5"	76.0	90.9	86.1	101.4	3.15	4.0	123.0	135.3	140.0	100	E1W	1RA	LSF33	4.450
115	M115	24.0	4"	44.0	5"	86.0	97.9	101.5	110.2	3.15	4.0	133.4	146.7	162.0	115	E1W	1RA	LSF34	6.190
130	M130	24.0	5"	46.8	6"	97.0	114.9	110.2	123.2	3.15	4.0	152.4	167.6	174.0	130	E1W	1RA	LSF35	8.340

\*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 please 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: 32E1W1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SE1W1RA035 = Brass 1 ½" NPT, 20E1W1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



**A2F** Ex e Ex d Ex nR Ex ta

**A2F Globally Approved, Hazardous (Classified) Location Cable Gland**

**For all types of Unarmored & Braided Cables**

- Aluminum, nickel plated brass or stainless steel design
- Optional thread sizes
- Displacement type flameproof seal
- Deluge protected
- -76°F to 230°F
- Globally marked, CSA, IECEx & ATEX
- As standard in nickel plated brass with NPT thread form



TECHNICAL DATA	
Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Mechanical Classifications*	Impact = Level 8, Cable Anchorage = Class B
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ATEX Certificate	SIRA13ATEX1068X, SIRA13ATEX4074X
Code of Protection	⊕ II 2G, II 1D Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da ⊕ II 3G Ex nR IIC Gc I M2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0023X, IECEx SIM 14.0006
Code of Protection	Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex d I Mb, Ex e I Mb
Compliance Standards	IEC 60079-0,1,7,15,31
CSA Certificate	1211841
Code of Protection	Class I, Div. 2 Groups B, C and D; Class II, Div. 2 Groups E, F and G; Class III, Div. 2; Type 4X: Oil Resistant II: Ex d IIC, Ex e II, Ex nR II
Compliance Standards	C22.2 No 0,0,4, 94, 174, CAN/CSA-E60079-0,1,7,15
EAC Certificate (Formerly GOST R, K & B)	TC RU C-GB.ГБ05.В00138
KCC Certificate	13_GA480_0748X ; 13_GA480_0749X ; 13_GA480_0750X ; 14_GA480_0251X
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
INMETRO Approval	TÜV 12.0619X
CCOE / PESO Certificate (India)	P333688
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3), DNV: E-13848, ABS: 14-LD234401A-4-PDA
Ingress Protection Rating**	IP66, IP67 & IP68***
NEMA Rating**	NEMA 4X
Deluge Protection Compliance	DTS01 : 91
Cable Gland Material	Copper Free (<0.4%) Aluminum, Nickel Plated Brass, Stainless Steel
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
Cable Type	Unarmored & Braided (when terminated inside enclosure)
Sealing Technique	CMP Unique Displacement Seal Concept
Sealing Area(s)	Cable Outer Jacket

**Cable Gland Selection Table**  
Refer to illustration at the top of the page.

Cable Gland Size	Available Entry Threads "C"				Overall Cable Diameter "A"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference ("Nickel Plated Brass NPT")			Shroud	Cable Gland Weight (Ozs)
	NPT	NPT (Option)	Metric (Option)	Thread Length (NPT) "E"	Min	Max	Max	Max		Size	Type	Ordering Suffix		
20S16	1/2"	3/4"	M20	0.78	0.13	0.34	0.95	1.04	1.04	20S16	A2F	1RA531	PVC05	2.30
20S	1/2"	3/4"	M20	0.78	0.24	0.46	0.95	1.04	1.00	20S	A2F	1RA531	PVC05	2.02
20	1/2"	3/4"	M20	0.78	0.26	0.55	1.06	1.17	1.06	20	A2F	1RA531	PVC05	2.04
25	3/4"	1"	M25	0.80	0.44	0.79	1.42	1.56	1.40	25	A2F	1RA532	PVC10	3.66
32	1"	1 1/4"	M32	0.98	0.67	1.04	1.61	1.78	1.35	32	A2F	1RA533	PVC10	4.45
40	1 1/4"	1 1/2"	M40	1.01	0.93	1.27	1.97	2.17	1.37	40	A2F	1RA534	PVC13	6.64
50S	1 1/2"	2"	M50	1.03	1.22	1.50	2.17	2.38	1.34	50S	A2F	1RA535	PVC15	8.12
50	2"	2 1/2"	M50	1.06	1.40	1.73	2.56	2.82	1.52	50	A2F	1RA536	PVC19	15.26
63S	2"	2 1/2"	M63	1.06	1.63	1.97	2.76	3.03	1.42	63S	A2F	1RA536	PVC21	12.41
63	2 1/2"	3"	M63	1.57	1.86	2.20	3.15	3.47	1.41	63	A2F	1RA537	PVC24	25.55
75S	2 1/2"	3"	M75	1.57	2.13	2.44	3.15	3.47	1.46	75S	A2F	1RA537	PVC24	18.54
75	3"	3 1/2"	M75	1.63	2.41	2.67	3.94	4.33	1.58	75	A2F	1RA538	PVC30	44.56
90	3 1/2"	4"	M90	1.69	2.62	3.15	4.25	4.68	2.18	90	A2F	1RA539	PVC31	59.90
100	3 1/2"	4"	M100	1.69	2.99	3.58	4.85	5.34	2.19	100	A2F	1RA539	LSF33	52.90
115	4"	5"	M115	1.73	3.39	3.85	5.25	5.78	2.57	115	A2F	1RA5310	LSF34	76.71
130	5"	-	M130	1.84	3.82	4.52	6.00	6.60	2.91	130	A2F	1RA5311	LSF35	138.91

\* 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

\*For material options add the following suffix to the Ordering Reference, Brass (no suffix required), Nickel Plated Brass 'S', 316 Grade Stainless Steel '4', Copper Free Aluminum '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: 32A2F1RA534 = Nickel Plated Brass 1 1/4" NPT, 50SA2F1RA035 = Brass 1 1/2" NPT, 25A2F1RA432 = Stainless Steel 3/4" NPT, 20A2F1RA5 = Nickel Plated Brass M20

Dimensions are displayed in inches unless otherwise stated

