



**A2F**

Ex e Ex d Ex nR Ex ta

**A2F Globally Approved, Explosive Atmosphere Cable Gland**

For all types of Unarmoured & Braided Cables

- Displacement type flameproof seal
- Deluge protected
- -60°C to +130°C (standard), -20°C to 200°C (ThermEx option)
- Globally marked, IECEx, ATEX & CSA



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.AA87.B.00487
UkrSEPRO	UA.TR.047.C.0644-15
KCS Certificate	13_GA4BO_0748X; 13_GA4BO_0749X; 13_GA4BO_0750X; 14_GA4BO_0251X
NEPSI Certificate	GY113.1140X / GY113.1282X
INMETRO Approval	TÜV 12.0619X
CCOE / PESO Certificate (India)	P333688
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3), DNV: TAE000000Y, ABS: 14-LD234401A-4-PDA, BV: 43180/A1
Ingress Protection Rating**	IP66, IP67 & IP68***
Deluge Protection Compliance	DTS01 : 91
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
Cable Type	Unarmoured & Braided when terminated inside enclosure
Sealing Technique	CMP Unique Displacement Seal Concept
Sealing Area(s)	Cable Outer 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)					Overall Cable Diameter "A"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option	Min	Max	Max	Max		Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT										
16	M16	15.0	-	-	-	3.2	8.7	24.0	26.4	29.9	16	A2F	1RA	PVC04	0.060
20S16	M20	15.0	½"	19.9	¾"	3.2	8.7	24.0	26.4	26.0	20S16	A2F	1RA	PVC04	0.070
20S	M20	15.0	½"	19.9	¾"	6.1	11.7	24.0	26.4	26.0	20S	A2F	1RA	PVC04	0.060
20	M20	15.0	½"	19.9	¾"	6.5	14.0	27.0	29.7	27.7	20	A2F	1RA	PVC05	0.070
25	M25	15.0	¾"	20.2	1"	11.1	20.0	36.0	39.6	35.5	25	A2F	1RA	PVC09	0.130
32	M32	15.0	1"	25.0	1 ¼"	17.0	26.3	41.0	45.1	35.1	32	A2F	1RA	PVC10	0.150
40	M40	15.0	1 ¼"	25.6	1 ½"	23.5	32.2	50.0	55.0	35.1	40	A2F	1RA	PVC13	0.200
50S	M50	15.0	1 ½"	26.1	2"	31.0	38.2	55.0	60.5	33.0	50S	A2F	1RA	PVC15	0.260
50	M50	15.0	2"	26.9	2 ½"	35.6	44.0	60.0	66.0	37.3	50	A2F	1RA	PVC18	0.270
63S	M63	15.0	2"	26.9	2 ½"	41.5	49.9	70.5	77.6	33.5	63S	A2F	1RA	PVC21	0.430
63	M63	15.0	2 ½"	39.9	3"	47.2	55.9	75.0	82.5	36.2	63	A2F	1RA	PVC23	0.400
75S	M75	15.0	2 ½"	39.9	3"	54.0	61.9	84.0	92.4	34.1	75S	A2F	1RA	PVC24	0.520
75	M75	15.0	3"	41.5	3 ½"	61.1	67.9	84.0	92.4	40.9	75	A2F	1RA	PVC26	0.500
90	M90	24.0	3 ½"	42.8	4"	66.6	79.9	108.0	118.8	60.3	90	A2F	1RA	PVC31	1.600
100	M100	24.0	3 ½"	42.8	4"	76.0	91.0	123.0	135.3	57.2	100	A2F	1RA	LSF33	1.780
115	M115	24.0	4"	44.0	5"	86.0	97.9	133.4	146.7	67.3	115	A2F	1RA	LSF34	2.670
130	M130	24.0	5"	46.8	-	97.0	114.9	152.4	167.6	74.7	130	A2F	1RA	LSF35	3.800

\*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 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: 32A2F1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SA2F1RA035 = Brass 1 ½" NPT, 25A2F1RA432 = Stainless Steel ¾" NPT, 20A2F1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated