



CMP EXPLOSIVE ATMOSPHERES PRODUCTS

**A2FRC**



**A2FRC Globally Approved, Rigid & Flexible Conduit Explosive Atmosphere Cable Gland**

**For all types of Unarmoured & Braided Cables housed in Conduit**

- Designed for rigid & flexible conduits
- Easy install running coupler design
- Displacement type flameproof seal
- -60°C to +130°C
- Globally marked, IECEx, ATEX & CSA



Alternative conduit sizes available upon request.

See cable gland selection table below for full NPT & Metric thread ordering references

THREAD OPTION ORDERING EXAMPLES		
Ordering Reference	Male Thread	Female Thread
20A2FRC1RA	M20	M20
20A2FRC1RA031	M20	1/2" NPT
20A2FRC1RA03131	1/2" NPT	1/2" NPT
20A2FRC1RA03102	1/2" NPT	M20

Refer to 'How to order' page for complete list of ordering codes.  
 \* For Metric female threads please insert '0' before thread size code  
 e.g. 32A2FRC1RA53405 (1 - 1/4" NPT Male x M40 Female)

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
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
Compliance Standards	IEC 60079-0,1,7,15,31
CSA Certificate	1211841
Code of Protection	Ex d IIC, Ex e II, Ex nR II, Enclosure Type 4x
Compliance Standards	C22.2 No 0,0.4, 94,174, CAN/CSA-E60079-0,1,7, 15
EAC Certificate	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
CCOE / PESO (India) Certificate	P333688
NEPSI Certificate	GY13.1140X / GY13.1282X
INMETRO Approval	TÜV 12.0878X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3), DNV: TAE00000Y, BV: 43180/A1
Ingress Protection Rating**	IP66
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel
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.

**Cable Gland Selection Table**

Refer to illustration at the top of the page.

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Female Connection Thread "G"	Female Connection Thread (NPT) "G"	Overall Cable Diameter "A"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric male and female)			Shroud	Cable Gland Weight (Kgs)
	Metric	Standard		Option	Min			Max	Size				Type	Ordering Suffix			
		Thread Length (Metric) "E"	NPT												Thread Length (NPT) "E"		
20S16	M20	15.0	1/2"	19.9	3/4"	M20	1/2"	3.2	8.7	24.0	26.4	46.9	20S16	A2FRC	1RA	PVC04	0.110
20S	M20	15.0	1/2"	19.9	3/4"	M20	1/2"	6.1	11.7	24.0	26.4	46.1	20S	A2FRC	1RA	PVC04	0.110
20	M20	15.0	1/2"	19.9	3/4"	M20	1/2"	6.5	14.0	27.0	29.7	47.9	20	A2FRC	1RA	PVC05	0.110
25	M25	15.0	3/4"	20.2	1"	M25	3/4"	11.1	20.0	36.0	39.6	56.1	25	A2FRC	1RA	PVC09	0.200
32	M32	15.0	1"	25.0	1 1/4"	M32	1"	17.0	26.3	41.0	45.1	55.5	32	A2FRC	1RA	PVC10	0.240
40	M40	15.0	1 1/4"	25.6	1 1/2"	M40	1 1/4"	23.5	32.2	50.0	55.0	57.7	40	A2FRC	1RA	PVC13	0.330
50S	M50	15.0	1 1/2"	26.1	2"	M50	1 1/2"	31.0	38.2	55.0	60.5	59.1	50S	A2FRC	1RA	PVC15	0.430
50	M50	15.0	2"	26.9	2 1/2"	M50	2"	35.6	44.0	60.0	66.0	64.3	50	A2FRC	1RA	PVC18	0.440
63S	M63	15.0	2"	26.9	2 1/2"	M63	2"	41.5	49.9	70.5	77.6	61.6	63S	A2FRC	1RA	PVC21	0.720
63	M63	15.0	2 1/2"	39.9	3"	M63	2 1/2"	47.2	55.9	75.0	82.5	71.0	63	A2FRC	1RA	PVC23	0.640
75S	M75	15.0	2 1/2"	39.9	3"	M75	2 1/2"	54.0	61.9	84.0	92.4	70.1	75S	A2FRC	1RA	PVC26	0.960
75	M75	15.0	3"	41.5	3 1/2"	M75	3"	61.1	67.9	84.0	92.4	73.2	75	A2FRC	1RA	PVC26	0.860
90	M90	24.0	3 1/2"	42.8	4"	M90	3 1/2"	66.6	79.9	108.0	118.8	106.3	90	A2FRC	1RA	PVC31	2.250
100	M100	24.0	3 1/2"	42.8	4"	M100	3 1/2"	76.0	91.0	123.0	135.5	115.8	100	A2FRC	1RA	LSF33	3.860
115	M115	24.0	4"	44.0	5"	M115	4"	86.0	97.9	133.4	146.7	117.3	115	A2FRC	1RA	LSF34	4.500
130	M130	24.0	5"	46.8	-	M130	5"	97.0	114.9	152.4	167.6	120.0	130	A2FRC	1RA	LSF35	4.770

\* For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass "5"; 316 Grade Stainless Steel "4"; Copper Free Aluminium "1"  
 For NPT male and / or female options please add the following digits to the material suffix (See Thread Options table above) 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")  
 NPT male & Metric female product option is required, please add the following digits to the material and NPT male suffix (See Thread Options table) M16=01, M20=02, M25=03, M32=04, M40=05, M50=06, M63=07, M75=08, M90=09 (Brass requires prefix "0")  
 Examples: 32A2FRC1RA533 = Nickel Plated Brass M32 male x 1" NPT female, 20S16A2FRC1RA031 = Brass M20 male x 1/2" NPT female, 25A2FRC1RA43203 = Stainless Steel 3/4" NPT male x M25 female, 20A2FRC1RA5 = Nickel Plated Brass M20 male & female  
 Dimensions are displayed in millimetres unless otherwise stated