



A2FRC

Ex e Ex d Ex nR Ex ta

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

For all types of Unarmoured & Braid Armour Cables housed in Conduit

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



Note: 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
20A2FRC1RA03101	1/2" NPT	M20

TECHNICAL DATA

Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Mechanical Classifications*	Impact = Level 8, Retention = Class B
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ATEX Certificate	SIRA13ATEX1068X, SIRA13ATEX4074X
Code of Protection	Ex 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 (Formerly GOST R, K & B)	TC RU C-GB.ГБ05.В00138
KCC Certificate	14-GA480-0251X
CCOE / PESO (India) Certificate	P333688
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
INMETRO Approval	TÜV 12.0878X
RETIE Approval Number	03866
Marine Approvals	LRs: 01/00172 (E3), DNV: E-13848
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
Sealing Technique	CMP Unique Displacement Seal Concept
Sealing Area(s)	Cable Outer Sheath

Note : * Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444

Note : ** Refer to page 7 or www.cmp-products.com for further information on Ingress Protection Ratings

Cable Gland Selection Table

Refer to illustration at the top of the page. NPT dimensions may vary, please see supplementary technical data sheet

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Standard Female Connection Thread "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)
	Standard				Option		Min	Max	Max	Max		Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"												
20s16	M20	15.0	1/2"	19.9	3/4"	M20	3.2	8.7	24.0	26.4	43.6	20S16	A2FRC	1RA	PVC04	0.110
20S	M20	15.0	1/2"	19.9	3/4"	M20	6.1	11.7	24.0	26.4	43.6	20S	A2FRC	1RA	PVC04	0.110
20	M20	15.0	1/2"	19.9	3/4"	M20	6.5	14.0	27.0	29.7	42.4	20	A2FRC	1RA	PVC05	0.110
25	M25	15.0	3/4"	20.2	1"	M25	11.1	20.0	36.0	39.6	50.4	25	A2FRC	1RA	PVC09	0.200
32	M32	15.0	1"	25.0	1 1/4"	M32	17.0	26.3	41.0	45.1	50.7	32	A2FRC	1RA	PVC10	0.240
40	M40	15.0	1 1/4"	25.6	1 1/2"	M40	23.5	32.2	50.0	55.0	51.4	40	A2FRC	1RA	PVC13	0.330
50S	M50	15.0	1 1/2"	26.1	2"	M50	31.0	38.2	55.0	60.5	55.2	50S	A2FRC	1RA	PVC15	0.430
50	M50	15.0	2"	26.9	2 1/2"	M50	35.6	44.0	60.0	66.0	62.0	50	A2FRC	1RA	PVC18	0.440
63S	M63	15.0	2"	26.9	2 1/2"	M63	41.5	49.9	70.5	77.6	58.4	63S	A2FRC	1RA	PVC21	0.720
63	M63	15.0	2 1/2"	39.9	3"	M63	47.2	55.9	75.0	82.5	61.5	63	A2FRC	1RA	PVC23	0.640
75S	M75	15.0	2 1/2"	39.9	3"	M75	54.0	61.9	84.0	92.4	63.2	75S	A2FRC	1RA	PVC26	0.960
75	M75	15.0	3"	41.5	3 1/2"	M75	61.1	67.9	84.0	92.4	68.6	75	A2FRC	1RA	PVC26	0.860
90	M90	24.0	3 1/2"	42.8	4"	M90	66.6	79.9	108.0	118.8	94.2	90	A2FRC	1RA	PVC31	2.250
100	M100	24.0	4"	44.0	5"	M100	76.0	91.0	123.0	135.5	115.0	100	A2FRC	1RA	-	3.860
115	M115	24.0	4"	44.0	5"	M115	86.0	97.9	133.4	146.7	118.6	115	A2FRC	1RA	-	4.500
130	M130	24.0	5"	46.8	6"	M130	97.0	114.9	152.4	167.6	122.4	130	A2FRC	1RA	-	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")

When NPT male & Metric female product option is required, please add the following digits to the material and NPT male suffix (See Thread Options table above): M20 = 01, M25 = 02, M32 = 03, M40 = 04, M50 = 05, M63 = 06, M75 = 07, M90 = 08 (Brass requires prefix "0")

Examples: 32A2FRC1RA533 = Nickel Plated Brass M32 male x 1" NPT female, 20S16A2FRC1RA031 = Brass M20 male x 1/2" NPT female, 25A2FRC1RA43202 = Stainless Steel 3/4" NPT male x M25 female, 20A2FRC1RA5 = Nickel Plated Brass M20 male & female

Dimensions are displayed in millimetres unless otherwise stated