



A2FFC

Ex e Ex d Ex nR Ex ta

A2FFC Globally Approved, Flexible Conduit Explosive Atmosphere Cable Gland

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

- Designed for flexible & rigid conduits
- Rigid conduits require thread adaptor from conduit supplier
- Suitable for conduit with rubber sheath / coating
- 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.
Ordering Suffix - e.g. C (conduit) 050 (CMP sizing reference)

Cable Gland Selection Table

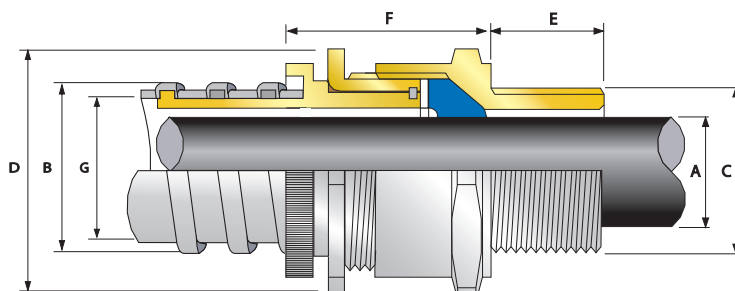
Refer to illustration at the top of the page

Cable Gland Size	Entry Threads "C"	Thread Length (Metric) "E" (Alternate Metric Thread Lengths Available)	Diameter of Cable "A"		Specific Internal Diameter of Conduit "G"	Maximum External Diameter of Conduit "B"	Across Flats "D"		Across Corners "D"	Protrusion Length "F"	Maximum Envelope Diameter	Combined Ordering Reference (*Brass Metric)			Cable Gland Weight (Kgs)
			Min	Max			Max	Max				Size	Type	Ordering Suffix	
20S16	M20 x 1.5	15.0	3.2	4.1	5.1	12.0	24.0	26.4	33.2	26.4	20S16	A2FFC	1RAC000		0.09
20S16	M20 x 1.5	15.0	3.2	5.2	6.8	13.0	24.0	26.4	33.2	26.4	20S16	A2FFC	1RAC001		0.09
20S16	M20 x 1.5	15.0	3.2	5.5	7.8	13.0	24.0	26.4	33.2	26.4	20S16	A2FFC	1RAC004		0.09
20S16	M20 x 1.5	15.0	3.2	8.0	9.1	15.0	24.0	26.4	33.2	26.4	20S16	A2FFC	1RAC009		0.08
20S16	M20 x 1.5	15.0	3.2	8.1	9.5	15.0	24.0	26.4	33.2	26.4	20S16	A2FFC	1RAC010		0.09
20S16	M20 x 1.5	15.0	3.2	8.1	10.2	16.0	24.0	26.4	33.2	26.4	20S16	A2FFC	1RAC020		0.09
20S16	M20 x 1.5	15.0	3.2	8.1	10.9	17.0	24.0	26.4	33.2	26.4	20S16	A2FFC	1RAC025		0.09
20S16	M20 x 1.5	15.0	3.2	8.1	11.7	17.4	24.0	26.4	33.2	26.4	20S16	A2FFC	1RAC030		0.09
20S	M20 x 1.5	15.0	6.1	11.4	13.0	20.0	24.0	26.4	33.1	26.4	20S	A2FFC	1RAC040		0.09
20S	M20 x 1.5	15.0	6.1	11.7	13.9	20.0	24.0	26.4	33.1	26.4	20S	A2FFC	1RAC045		0.09
20S	M20 x 1.5	15.0	6.1	11.7	14.7	21.5	24.0	26.4	33.1	26.4	20S	A2FFC	1RAC060		0.09
20	M20 x 1.5	15.0	6.5	13.1	15.6	21.6	27.0	29.7	35.4	29.7	20	A2FFC	1RAC050		0.10
20	M20 x 1.5	15.0	6.5	14.0	16.9	23.4	27.0	29.7	35.4	29.7	20	A2FFC	1RAC066		0.10
20	M20 x 1.5	15.0	6.5	14.0	18.0	24.0	27.0	29.7	35.4	29.7	20	A2FFC	1RAC070		0.10
20	M20 x 1.5	15.0	6.5	14.0	18.7	25.0	27.0	29.7	35.4	29.7	20	A2FFC	1RAC075		0.10
20	M20 x 1.5	15.0	6.5	14.0	20.0	26.3	27.0	29.7	35.4	29.7	20	A2FFC	1RAC080		0.12
20	M20 x 1.5	15.0	6.5	14.0	20.5	28.0	27.0	29.7	35.4	31.0	20	A2FFC	1RAC085		0.11
25	M25 x 1.5	15.0	11.1	15.3	17.6	25.0	36.0	39.6	43.1	39.6	25	A2FFC	1RAC100		0.16
25	M25 x 1.5	15.0	11.1	18.4	20.7	27.0	36.0	39.6	43.1	39.6	25	A2FFC	1RAC105		0.16
25	M25 x 1.5	15.0	11.1	19.0	22.3	28.5	36.0	39.6	43.1	39.6	25	A2FFC	1RAC110		0.17
25	M25 x 1.5	15.0	11.1	20.0	23.7	32.0	36.0	39.6	43.1	39.6	25	A2FFC	1RAC115		0.18
25	M25 x 1.5	15.0	11.1	20.0	25.1	31.0	36.0	39.6	43.1	39.6	25	A2FFC	1RAC120		0.17
25	M25 x 1.5	15.0	11.1	20.0	26.5	35.0	36.0	39.6	43.1	39.6	25	A2FFC	1RAC180		0.18
32	M32 x 1.5	15.0	17.0	26.0	28.1	35.8	41.0	45.1	43.1	45.1	32	A2FFC	1RAC250		0.21
32	M32 x 1.5	15.0	17.0	26.3	30.4	38.0	41.0	45.1	43.1	45.1	32	A2FFC	1RAC280		0.21
32	M32 x 1.5	15.0	17.0	26.3	34.6	45.0	41.0	45.1	43.6	48.0	32	A2FFC	1RAC290		0.25
40	M40 x 1.5	15.0	23.5	32.2	36.4	45.0	50.0	55.0	45.1	55.0	40	A2FFC	1RAC300		0.28
40	M40 x 1.5	15.0	23.5	32.2	40.0	49.0	50.0	55.0	45.1	55.0	40	A2FFC	1RAC380		0.30
50S	M50 x 1.5	15.0	31.0	38.2	46.5	58.7	55.0	60.5	43.8	63.7	50S	A2FFC	1RAC450		0.48
50S	M50 x 1.5	15.0	31.0	38.2	51.2	61.0	55.0	60.5	43.8	65.0	50S	A2FFC	1RAC500		0.49
50	M50 x 1.5	15.0	35.6	44.0	51.2	61.0	60.0	66.0	48.0	66.0	50	A2FFC	1RAC550		0.49

*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 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 (Brass requires prefix "0")

Examples: 32A2FFC1RA534C290 = Nickel Plated Brass 1-1/4" NPT suitable for conduit sized 35.0 ID - 43.0 OD, 50SA2FFC1RA035C500 = Brass 1-1/2" NPT, 20A2FFC1RA5C075 = Nickel Plated Brass M20 suitable for conduit sized 18.7 ID - 24.0 OD

Dimensions are displayed in millimetres unless otherwise stated



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, SIRA13ATEX4074
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	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.Г605.В00138
KCC Certificate	14-GA480-0251X
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
CCOE / PESO (India) Certificate	P333688
INMETRO Approval	TUV 12.0878X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3), ABS: 14-LD234401A-4-PDA
Ingress Protection Rating	IP66**
Standard Cable Gland Material	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
Cable Type	Unarmoured & Braided Housed in Flexible Conduit
Sealing Technique	CMP Displacement Seal
Sealing Area(s)	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