



A2F-FF

- Ex e
- Ex d
- Ex nR
- Ex ta

A2F Internationally Approved, Flat-Form Explosive Atmosphere Cable Gland

For all types of Flat-Form Unarmoured & Braid Armour Cables

- Designed for flat form / heat trace cables
- Displacement type flameproof seal
- Deluge protected
- -60°C to +130°C (standard), -20°C to 200°C (ThermEx option)
- Internationally marked, IECEx & ATEX



Flat-form seals available for alternative Cable Glands upon request

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	⊕ 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
EAC Certificate (Formerly GOST R, K & B)	TC RU C-GB.ГБ05.В00138
KCS Certificate	13_GA4B0_0748X; 13_GA4B0_0749X; 13_GA4B0_0750X; 14_GA4B0_0251X
CCOE / PESO Certificate (India)	P333688
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	Flat Form 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
 ** 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.

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" (h x w)		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			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									
20S	M20	15.0	1/2"	19.9	3/4"	4.0 x 6.2	6.8 x 11.7	24.0	26.4	25.1	20S	A2FFF	1RA	0.054
20	M20	15.0	1/2"	19.9	3/4"	5.7 x 8.0	8.7 x 13.5	27.0	29.7	27.2	20	A2FFF	1RA	0.059

*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

Examples: 25A2FFF1RA432 = Stainless Steel 3/4" NPT, 20A2FFF1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated