



A2F-FF

Ex e Exd ExnR Exta

A2F Internationally Approved, Flat-Form Explosive Atmosphere Cable Gland

For all types of Flat-Form Unarmoured & Braided 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, Cable Anchorage = Class B
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ATEX Certificate	CML 18ATEX1321X, CML 18ATEX4313X
Code of Protection	Ex II 2G, II 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ex II 3G Ex nR IIC Gc, I M2 Ex db I Mb, Ex eb I Mb
Compliance Standards	EN 60079-0,1,7,15,31
IECEx Certificate	IECEx CML 18.0179X, IECEx SIM 14.0006
Code of Protection	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb, Ex eb I Mb
Compliance Standards	IEC 60079-0,1,7,15,31
EAC Certificate	TC RU C-GB.AA87.B.00487
KCs KOSHA Certificate	13_GA480_0748X ; 13_GA480_0749X ; 13_GA480_0750X ; 14_GA480_0251X
CCOE / PESO Certificate (India)	P333688
NEPSI Certificate	GY118.1249X
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

** 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" (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	½"	19.9	¾"	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	½"	19.9	¾"	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 '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options please add the following digits to the material suffix ; ½" = 31, ¾" = 32, 1" = 33

Examples: 25A2FFF1RA432 = Stainless Steel ¾" NPT, 20A2FFF1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated