

# A2F Series Nickel Plated Brass Cable Glands

## Increased Safety and Flameproof

With Elastomer Seal for Unarmored and Exterior Braid Armor With Protective Sheath Cables.

**CEC:**  
 Class I, Division 2, Groups B, C and D  
 Class II, Division 2, Groups E, F and G  
 Class III, Division 2  
 Ex d IIC, Ex e IIC, Ex nR II  
 Type 4X: Oil Resistant II

**ATEX/IECEX:**  
 II 2 GD  
 II 1D Ex d ① ② 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

**ATEX/IECEX:**  
 Zone 1 and 2 – 21 and 22  
 Gas Groups IIA, IIB and IIC  
 Ex d ① I  
 Ex e I

### Applications

- Cable glands for unarmored and exterior braid armor with protective sheath cable certified for enclosures with the following protection modes:
  - Ex d ③ flameproof IIB or IIC (as per §10.4.2 of IEC 60079-14)
  - Ex e increased safety
  - Ex nR restricted breathing
  - D dust environment
- Hazardous areas (gas and dust)
- Onshore and offshore

### Options

- 316L stainless steel version: replace last digit 5 with 4
- Copper-free aluminum: replace last digit 5 with 1
- Shroud, locknut, earth tag, entry thread seal, serrated washers, adaptors and reducers: see *Cable Gland Accessories* pages

### NEC/CEC Certifications and Compliances

- CSA Standard: C22.2 No. 174
- CSA Certified: 101909

### Features

- Elastomer displacement seal for unarmored cable provides a combined flameproof and weatherproof seal on the outer sheath of the cable.

### Standard Materials

- Body: nickel plated brass (suffix 5)
- Seal: LSF (Low Smoke Fume) thermoplastic elastomer

Cable Gland Size	Metric Thread C	Standard Metric ②	Standard NPT Thread C	Catalog Numbers		
				Standard NPT ②	Optional NPT Thread C	Optional NPT Thread ②
20S/16	M20	2016A2F5	1/2	2016A2F0505	3/4	2016A2F0755
20S	M20	20SA2F5	1/2	20SA2F0505	3/4	20SA2F0755
20	M20	20A2F5	1/2	20A2F0505	3/4	20A2F0755
25	M25	25A2F5	3/4	25A2F0755	1	25A2F1005
32	M32	32A2F5	1	32A2F1005	1-1/4	32A2F1255
40	M40	40A2F5	1-1/4	40A2F1255	1-1/2	40A2F1505
50S	M50	50SA2F5	1-1/2	50SA2F1505	2	50SA2F2005
50	M50	50A2F5	2	50A2F2005	2-1/2	50A2F2505
63S	M63	63SA2F5	2	63SA2F2005	2-1/2	63SA2F2505
63	M63	63A2F5	2-1/2	63A2F2505	3	63A2F3005
75S	M75	75SA2F5	2-1/2	75SA2F2505	3	75SA2F3005
75	M75	75A2F5	3	75A2F3005	3-1/2	75A2F3505
90	M90	90A2F5	3	90A2F3005	4	90A2F3505
100	M100	100A2F5	4	100A2F4005	5	100A2F5005
115	M115	115A2F5	4	115A2F4005	5	115A2F5005
130	M130	130A2F5	5	130A2F5005	6	130A2F6005

① The A2F Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21 and Zone 22 provided always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14.

② Applies to unarmored cable only.

③ Entry thread seal not supplied, see *Cable Gland Accessories and Tools*.

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Class II, Division 2, Groups E, F and G  
Class III, Division 2  
Ex d IIC, Ex e IIC, Ex nR II  
Type 4X: Oil Resistant II

### ATEX/IECEX:

Ⓢ II 2 GD  
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

### ATEX/IECEX:

Zone 1 and 2 – 21 and 22  
Gas Groups IIA, IIB and IIC  
Ex d Ⓢ I  
Ex e I

### ATEX/IECEX Certifications and Compliances

- Certification Type A2F
  - Gas: Zones 1 and 2
    - Type of Protection: Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc
  - Dust: Zone 20
    - Type of Protection: Ex ta IIIC Da
- Conforming to ATEX 94/9/CE: Ⓢ II 2G 3G 1D
- Ambient Temperature: -60 °C to +130 °C (-76 °F to +266 °F)
- CE Declaration of Conformity: DC07001
- ATEX Certificate: Sira 13ATEX1068X, Sira 13ATEX4074X
- IECEx Certificate: IECEx SIR 13.0023X, IECEx SIM 14.0006
- Other Certifications: CSA, KCC, CCOE/PESO (India)
- Marine Approval: LLOYDS, DNV, ABS
- Index of Protection according EN/IEC 60529: IP66, IP67, IP68
- Deluge Protection Compliance: DTS01:91

### INMETRO Certification

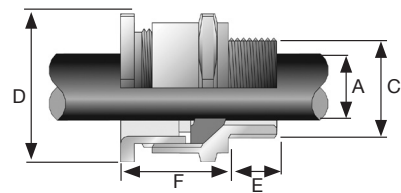
- INMETRO Certificate: TÜV 12.0619X

### EURASEC Certification

- TC RU C-GB.Г505.B.00138



Dimensions in Millimeters (Inches)



Cable Gland Size	Minimum Thread Length mm (in) E	Overall Cable Diameter mm (in) A		Across Flats mm (in) D	Across Corners mm (in) D	Nominal Protrusion Length mm (in) F	Optional PVC Shroud	Weight kg (oz)
		Min	Max					
20S/16	15.00 (0.59)	3.30 (0.13)	8.64 (0.34)	22.10 (0.87)	24.13 (0.95)	21.08 (0.83)	PVC04	0.05 (1.90)
20S	15.00 (0.59)	6.10 (0.24)	11.68 (0.46)	22.10 (0.87)	24.13 (0.95)	21.08 (0.83)	PVC04	0.06 (2.08)
20	15.00 (0.59)	6.60 (0.26)	13.97 (0.55)	26.92 (1.06)	29.72 (1.17)	23.88 (0.94)	PVC05	0.11 (3.95)
25	15.00 (0.59)	11.18 (0.44)	20.07 (0.79)	36.07 (1.42)	39.62 (1.56)	25.91 (1.02)	PVC09	0.13 (4.52)
32	15.00 (0.59)	17.02 (0.67)	26.42 (1.04)	40.89 (1.61)	45.21 (1.78)	26.92 (1.06)	PVC10	0.17 (5.93)
40	15.00 (0.59)	23.62 (0.93)	32.26 (1.27)	45.97 (1.81)	50.55 (1.99)	27.94 (1.10)	PVC13	0.22 (7.90)
50S	15.00 (0.59)	30.99 (1.22)	38.10 (1.50)	55.12 (2.17)	60.45 (2.38)	28.96 (1.14)	PVC14	0.23 (8.15)
50	15.00 (0.59)	35.56 (1.40)	44.20 (1.74)	59.94 (2.36)	66.04 (2.60)	29.97 (1.18)	PVC17	0.36 (12.7)
63S	15.00 (0.59)	41.40 (1.63)	50.04 (1.97)	65.02 (2.56)	71.37 (2.81)	29.97 (1.18)	PVC20	0.34 (12.13)
63	15.00 (0.59)	47.24 (1.86)	55.88 (2.20)	70.10 (2.76)	76.96 (3.03)	29.97 (1.18)	PVC22	0.47 (16.44)
75S	15.00 (0.59)	54.10 (2.13)	61.98 (2.44)	80.01 (3.15)	88.65 (3.49)	32.00 (1.26)	PVC24	0.40 (13.93)
75	15.00 (0.59)	61.21 (2.41)	68.07 (2.68)	84.07 (3.31)	92.46 (3.64)	32.00 (1.26)	PVC26	1.35 (47.48)
90	24.00 (0.94)	66.55 (2.62)	80.01 (3.15)	107.95 (4.25)	120.65 (4.75)	43.94 (1.73)	PVC31	1.58 (55.56)
100	24.00 (0.94)	75.95 (2.99)	90.93 (3.58)	114.30 (4.5)	128.52 (5.06)	48.01 (1.89)	LSF32	2.32 (81.91)
115	24.00 (0.94)	86.11 (3.39)	98.04 (3.86)	131.57 (5.18)	146.05 (5.75)	55.12 (2.17)	LSF34	3.40 (119.93)
130	24.00 (0.94)	97.03 (3.82)	115.06 (4.53)	152.40 (6.00)	167.64 (6.60)	61.98 (2.44)	LSF35	2.44 (86.07)

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