

A2F Series Nickel Plated Brass Cable Glands

For Unarmored Cables

Increased Safety, Flameproof, Restricted Breathing and Dust Environment

Zone 1 and 2, Zone 20
Gas (G) and Dust (D)

Applications

- Cable glands for unarmored cable certified for enclosures with the following protection modes:
 - Ex d flameproof IIB or IIC
 - Ex e increased safety
 - Ex nR restricted breathing
 - D dust environment
- Hazardous areas (gas and dust)
- Onshore and offshore.

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.
- Seal: LSF (Low Smoke Fume) Halogen Free thermoset elastomer.

Options

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

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 IIC Da
 - Conforming to ATEX 94/9/CE: Ⓢ II 2G 3G 1D
 - Ambient Temperature: -60 °C to +130 °C
 - 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

ZONE 1 RATED NICKEL PLATED BRASS CABLE GLANDS

Fittings

Cable Gland Size	Metric Thread C	Catalog Numbers				
		Standard Metric ①	Standard NPT Thread C	Standard NPT ①	Optional NPT Thread C	Optional NPT Thread ①
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	3-1/2"	90A2F3505	4"	90A2F4005
100	M100	100A2F5	4"	100A2F4005	5"	100A2F5005
115	M115	115A2F5	4"	115A2F4005	5"	115A2F5005
130	M130	130A2F5	5"	130A2F5005	6"	130A2F6005

① Entry thread seal not supplied, see *Cable Gland Accessories and Tools*.

Shaded catalog numbers are normally stocked items. All other items are made to order.

A2F Series Nickel Plated Brass Cable Glands

For Unarmored Cables

Increased Safety, Flameproof, Restricted Breathing and Dust Environment

Zone 1 and 2, Zone 20
Gas (G) and Dust (D)

INMETRO Certification

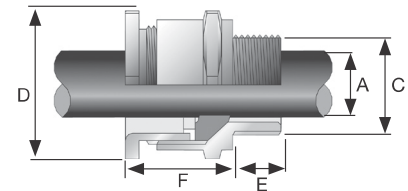
- INMETRO Certificate: TÜV 12.0619X

EURASEC Certification

- TC RU C-GB.ГБ.05.В.00138



Dimensions in Millimeters



Cable Gland Size	Thread Length (Metric) mm E	Thread Length (NPT) mm E	Overall Cable Diameter mm A		Across Flats mm D Max	Across Corners mm D Max	Protrusion Length mm F	PVC Shroud Reference	Cable Gland Weight kg
			Min	Max					
20S/16	15.0	19.9	3.2	8.7	24.0	26.4	25.1	PVC04	0.07
20S	15.0	19.9	6.1	11.7	24.0	26.4	25.1	PVC04	0.06
20	15.0	19.9	6.5	14.0	27.0	29.7	27.2	PVC05	0.07
25	15.0	20.2	11.1	20.0	36.0	39.6	35.5	PVC09	0.13
32	15.0	25.0	17.0	26.3	41.0	45.1	34.2	PVC10	0.15
40	15.0	25.6	23.5	32.2	50.0	55.0	35.1	PVC13	0.20
50S	15.0	26.1	31.0	38.2	55.0	60.5	32.0	PVC15	0.26
50	15.0	26.9	35.6	44.0	60.0	66.0	36.3	PVC18	0.27
63S	15.0	26.9	41.5	49.9	70.5	77.6	33.5	PVC21	0.43
63	15.0	39.9	47.2	55.9	75.0	82.5	35.8	PVC23	0.40
75S	15.0	39.9	54.0	61.9	80.0	88.0	34.2	PVC26	0.52
75	15.0	41.5	61.1	67.9	84.0	92.4	40.6	PVC26	0.50
90	24.0	42.8	66.6	79.9	108.0	118.8	58.3	PVC31	1.60
100	24.0	44.0	76.0	91.0	123.0	135.3	55.2	LSF33	1.78
115	24.0	44.0	86.0	97.9	133.4	146.7	65.2	LSF34	2.67
130	24.0	46.8	97.0	114.9	152.4	167.6	73.9	LSF35	3.80

E1FX Series Nickel Plated Brass Cable Gland

For Armored Cables (Braid, Tape)

Increased Safety, Flameproof, Restricted Breathing and Dust Environment

Zone 1 and 2, Zone 20
Gas (G) and Dust (D)

Applications

- Cable gland for armored cables (braid, tape). See Options for tape with lead sheath version. Certified for enclosures with the following protection modes:
 - Ex d flameproof IIB or IIC
 - Ex e increased safety
 - Ex nR restricted breathing
 - D dust environment
- Hazardous areas (gas and dust)
- Onshore and offshore

Features

- Cable gland with elastomer seal for use in hazardous areas with braided and tape armor cable.
- The cable gland allows mechanical cable retention and earth continuity via cable armor termination.
- A detachable armor cone and AnyWay clamping ring arrangement facilitates remote make off and enables cable to be disconnected from the equipment.
- Inspection of the armor can be carried out while still maintaining the explosionproof protection mode of the enclosure.
- Sealing technique: inner displacement seal concept and LRS outer seal (load retention seal).

Standard Materials

- Body: nickel plated brass.
- Seal: LSF (Low Smoke Fume) Halogen Free thermoset elastomer.

Options

- Lead sheath version – Replace digit **1** with **2**; Example: 32E1FX5 - 32E2FX5
- Aluminum: replace last digit **5** with **1**
- Shroud, locknut, earth tag, entry thread seal, serrated washers, adaptors and reducers: see *Cable Gland Accessories* pages.

Cable Gland Size	Metric Thread C	Catalog Numbers				
		Standard Metric ^①	Standard NPT Thread C	Standard NPT ^①	Optional NPT Thread C	Optional NPT Thread ^①
20S16	M20	2016E1FX5	1/2"	2016E1FX0505	3/4"	2016E1FX0755
20S	M20	20SE1FX5	1/2"	20SE1FX0505	3/4"	20SE1FX0755
20	M20	20E1FX5	1/2"	20E1FX0505	3/4"	20E1FX0755
25S	M25	25SE1FX5	3/4"	25SE1FX0755	1"	25SE1FX1005
25	M25	25E1FX5	3/4"	25E1FX0755	1"	25E1FX1005
32	M32	32E1FX5	1"	32E1FX1005	1-1/4"	32E1FX1255
40	M40	40E1FX5	1-1/4"	40E1FX1255	1-1/2"	40E1FX1505
50S	M50	50SE1FX5	1-1/2"	50SE1FX1505	2"	50SE1FX2005
50	M50	50E1FX5	2"	50E1FX2005	2-1/2"	50E1FX2505
63S	M63	63SE1FX5	2"	63SE1FX2005	2-1/2"	63SE1FX2505
63	M63	63E1FX5	2-1/2"	63E1FX2505	3"	63E1FX3005
75S	M75	75SE1FX5	2-1/2"	75SE1FX2505	3"	75SE1FX3005
75	M75	75E1FX5	3"	75E1FX3005	3-1/2"	75E1FX3505
90	M90	90E1FX5	3-1/2"	90E1FX3505	4"	90E1FX4005
100	M100	100E1FX5	4"	100E1FX4005	5"	100E1FX5005
115	M115	115E1FX5	4"	115E1FX4005	5"	115E1FX5005
130	M130	130E1FX5	5"	130E1FX5005	6"	130E1FX6005

^① Entry thread seal not supplied, see *Cable Gland Accessories and Tools*.

Shaded catalog numbers are normally stocked items. All other items are made to order.

E1FX Series Nickel Plated Brass Cable Gland

For Armored Cables (Braid, Tape)

Increased Safety, Flameproof, Restricted Breathing and Dust Environment

Zone 1 and 2, Zone 20
Gas (G) and Dust (D)

ATEX/IECEX Certifications and Compliances

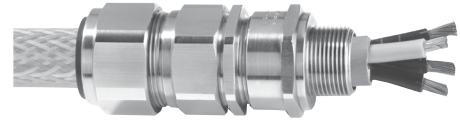
- **Certification Type E1FX/Z - E2FX/Z**
 - Gas: Zones 1 and 2
 - Type of Protection: Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc
 - Dust: Zone 20
 - Type of Protection: Ex ta IIIC Da
 - Conforming to ATEX 94/9/CE: Ⓜ II 2G 3G 1D
 - Ambient Temperature: -60 °C to +130 °C
 - CE Declaration of Conformity: DC07001
 - ATEX Certificate: Sira 13ATEX1071X, Sira 13ATEX4077X
 - IECEX Certificate: IECEX SIR 13.0026X, IECEX SIM 14.0007X
 - Other Certifications: cCSAus, KCC, CCOE/PESO (india)
 - Marine Approval: LLOYDS, DNV, ABS
 - Index of Protection according EN/IEC 60529: IP66
 - Deluge Protection Compliance: DTS01:91 (option available on request only)

INMETRO Certification

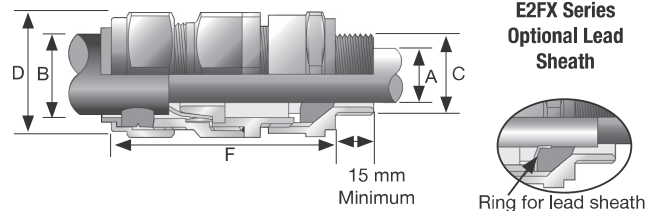
- INMETRO Certificate: TUV 12.0618X

EURASEC Certification

- TC RU C-GB.ГБ.05.В.00138



Dimensions in Millimeters



Cable Gland Size	Cable Bedding Diameter mm A		Overall Cable Diameter mm B		Across Corners mm D	Across Flats mm D	Protrusion Length mm F	PVC Shroud Reference	Cable Gland Weight kg
	Min	Max	Min	Max					
20S16	3.1	8.6	6.1	13.1	26.4	24.0	72.5	PVC36	0.16
20S	6.1	11.6	9.5	15.9	26.4	24.0	70.0	PVC36	0.15
20	6.5	13.9	12.5	20.9	33.6	30.5	73.0	PVC06	0.21
25S	11.1	19.9	14.0	22.0	41.3	37.5	89.0	PVC09	0.33
25	11.1	19.9	18.2	26.2	41.3	37.5	89.0	PVC09	0.33
32	17.0	26.2	23.7	33.9	50.6	46.0	86.0	PVC11	0.43
40	22.0	32.1	27.9	40.4	60.5	55.0	90.0	PVC15	0.62
50S	29.5	38.1	35.2	46.7	66.0	60.0	91.0	PVC18	0.75
50	35.6	44.0	40.4	53.0	77.1	70.1	95.0	PVC21	0.95
63S	40.1	49.9	45.6	59.4	82.5	75.0	102.0	PVC23	1.34
63	47.2	55.9	54.6	65.8	88.0	80.0	104.0	PVC25	1.34
75S	52.8	61.9	59.0	72.0	99.0	90.0	115.0	PVC28	2.11
75	59.1	67.9	66.7	78.4	110.0	100.0	117.0	PVC30	2.42
90	66.6	78.6	76.2	90.3	125.4	114.3	147.0	PVC32	4.21
100	76.0	90.9	86.1	101.4	135.3	123.0	140.0	LSF33	4.45
115	86.0	97.9	101.5	110.2	146.7	133.4	162.0	LSF34	6.19
130	97.0	114.9	110.2	123.3	167.6	152.4	174.0	LSF35	8.34

E1FW Series Nickel Plated Brass Cable Glands

For Armored Cables (SWA - Single Wire Armour)

Increased Safety, Flameproof, Restricted Breathing and Dust Environment

Zone 1 and 2, Zone 20
Gas (G) and Dust (D)

Applications

- Cable gland for Single Wire Armored cables (SWA with wire and lead sheath) certified for enclosures with the following protection modes:
 - Ex d flameproof IIB or IIC
 - Ex e increased safety
 - Ex nR restricted breathing
 - D dust environment
- Hazardous areas (gas and dust).
- Onshore and offshore.

Features

- Cable gland with elastomer seal for use in hazardous areas with Single Wire Armor (SWA) cable.
- The cable gland allows mechanical cable retention and earth continuity via cable armor termination.
- A detachable armor cone and AnyWay clamping ring arrangement facilitates remote make off and enables cable to be disconnected from the equipment.
- Inspection of the armor can be carried out while still maintaining the protection mode of the enclosure.
- Sealing technique: inner displacement seal concept and LRS outer seal (load retention seal).

Standard Materials

- Body: nickel plated brass.
- Seal: LSF (Low Smoke Fume) Halogen Free thermoset elastomer.

Options

- Lead sheath version [Ⓢ] – Replace digit E1 with E2;
Example: 32E1FW5 - 32E2FW5
- Aluminum: replace last digit **5** with **1**
- Shroud, locknut, earth tag, entry thread seal, serrated washers, adaptors and reducers: see *Cable Gland Accessories* pages.

ZONE 1 RATED NICKEL PLATED BRASS CABLE GLANDS

Cable Gland Size	Metric Thread C	Catalog Numbers				
		Standard Metric ^①	Standard NPT Thread C	Standard NPT ^①	Optional NPT Thread C	Optional NPT ^①
20S16	M20	2016E1FW5	1/2"	2016E1FW0505	3/4"	2016E1FW0755
20S	M20	20SE1FW5	1/2"	20SE1FW0505	3/4"	20SE1FW0755
20	M20	20E1FW5	1/2"	20E1FW0505	3/4"	20E1FW0755
25S	M25	25SE1FW5	3/4"	25SE1FW0755	1"	25SE1FW1005
25	M25	25E1FW5	3/4"	25E1FW0755	1"	25E1FW1005
32	M32	32E1FW5	1"	32E1FW1005	1-1/4"	32E1FW1255
40	M40	40E1FW5	1-1/4"	40E1FW1255	1-1/2"	40E1FW1505
50S	M50	50SE1FW5	1-1/2"	50SE1FW1505	2"	50SE1FW2005
50	M50	50E1FW5	2"	50E1FW2005	2-1/2"	50E1FW2505
63S	M63	63SE1FW5	2"	63SE1FW2005	2-1/2"	63SE1FW2505
63	M63	63E1FW5	2-1/2"	63E1FW2505	3"	63E1FW3005
75S	M75	75SE1FW5	2-1/2"	75SE1FW2505	3"	75SE1FW3005
75	M75	75E1FW5	3"	75E1FW3005	3-1/2"	75E1FW3505
90	M90	90E1FW5	3-1/2"	90E1FW3505	4"	90E1FW4005
100	M100	100E1FW5	4"	100E1FW4005	5"	100E1FW5005
115	M115	115E1FW5	4"	115E1FW4005	5"	115E1FW5005
130	M130	130E1FW5	5"	130E1FW5005	6"	130E1FW6005

^① Entry thread seal not supplied, see *Cable Gland Accessories and Tools*.

Shaded catalog numbers are normally stocked items. All other items are made to order.

E1FW Series Nickel Plated Brass Cable Glands

For Armored Cables (SWA - Single Wire Armour)

Increased Safety, Flameproof, Restricted Breathing and Dust Environment

Zone 1 and 2, Zone 20
Gas (G) and Dust (D)

ATEX/IECEX Certifications and Compliances

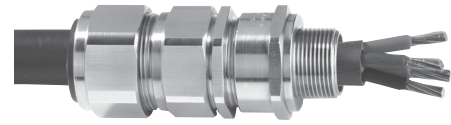
- **Certification Type E1FW/Z - E2FW/Z**
 - Gas: Zones 1 and 2
 - Type of Protection: Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc
 - Dust: Zone 20
 - Type of Protection: Ex ta IIIC Da
 - Conforming to ATEX 94/9/CE: Ⓢ II 2G 3G 1D
 - Ambient Temperature: -60 °C to +130 °C
 - CE Declaration of Conformity: DC07001
 - ATEX Certificate: Sira 13ATEX1071X, Sira 13ATEX4077X
 - IECEX Certificate: IECEX SIR 13.0026X, IECEX SIM 14.0007X
 - Other Certifications: cCSAus, KCC, CCOE/PESO (india)
 - Marine Approval: LLOYDS, DNV, ABS
 - Index of Protection according EN/IEC 60529: IP66
 - Deluge Protection Compliance: DTS01:91 (option available on request only)

INMETRO Certification

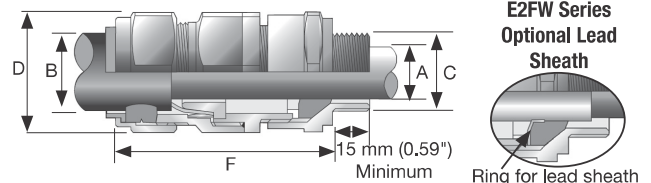
- INMETRO Certificate: TUV 12.0618X

EURASEC Certification

- TC RU C-GB.ГБ.05.В.00138



Dimensions in Millimeters



Cable Gland Size	Cable Bedding Diameter mm A		Outer Cable Capacity mm B		Across Corners mm D	Across Flats mm D	Protrusion Length mm F	Cable Gland Weight kg
	Min	Max	Min	Max				
20S16	3.1	8.6	6.1	13.1	26.4	24.0	72.5	0.16
20S	6.1	11.6	9.5	15.9	26.4	24.0	70.0	0.15
20	6.5	13.9	12.5	20.9	33.6	30.5	73.0	0.21
25S	11.1	19.9	14.0	22.0	41.3	37.5	89.0	0.33
25	11.1	19.9	18.2	26.2	41.3	37.5	89.0	0.33
32	17.0	26.2	23.7	33.9	50.6	46.0	86.0	0.43
40	22.0	32.1	27.9	40.4	60.5	55.0	90.0	0.62
50S	29.5	38.1	35.2	46.7	66.0	60.0	91.0	0.75
50	35.6	44.0	40.4	53.0	77.1	70.1	95.0	0.95
63S	40.1	49.9	45.6	59.4	82.5	75.0	102.0	1.34
63	47.2	55.9	54.6	65.8	88.0	80.0	104.0	1.34
75S	52.8	61.9	59.0	72.0	99.0	90.0	115.0	2.11
75	59.1	67.9	66.7	78.4	110.0	100.0	117.0	2.42
90	66.6	78.6	76.2	90.3	125.4	114.3	147.0	4.21
100	76.0	90.9	86.1	101.4	135.3	123.0	140.0	4.45
115	86.0	97.9	101.5	110.2	146.7	133.4	162.0	6.19
130	97.0	114.9	110.2	123.3	167.6	152.4	174.0	8.34

ZONE 1 RATED NICKEL PLATED BRASS CABLE GLANDS

Fittings