

Cable Glands

A2F, E1FX/E2FX, E1FW/E2FW and T3 Series: Nickel Plated Brass Cable Glands for Unarmored and Armored Cables with Elastomer Seal – Increased Safety and Flameproof



A2F Series



E1FX & E2FX Series



E1FW & E2FW Series



T3 Series

Compliance Data:

ATEX – IECEx:

Zone 1 & 2 – 21 & 22	ATEX	II 2 GD	IECEx	CE
Ex d IIC or Ex e II or Ex nR II	Ex tD A21	IP 66 / 68 (10m)		

Operating Temperature:

-60°C to +130°C				
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Cable Glands

A2F Series: Nickel Plated Brass Cable Glands for Unarmored Cables with Elastomer Seal – Increased Safety and Flameproof

Zone 1 & 2 – 21 & 22

II 2 GD

ATEX / IECEX

IP66/68



A2F Series – Applications:

- Cable glands for unarmored cable certified for enclosures with the following protection modes:
 - Ex d flameproof IIB or IIC (as per §10.4.2 of IEC 60079-14) (Refer to Guide for Use of Electrical Products in Hazardous Locations - pages G43 - G46.)
 - Ex e increased safety
 - Ex nR restricted breathing
 - D dust environment
- Hazardous areas (gas and dust)
- Onshore and offshore

Materials:

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

Options:

- 316L stainless steel version: replace last digit 5 with 4.
Example: 25 A2F 075 5 – 25 A2F 075 4.
- Brass version: remove last digit 5.
Example: 25 A2F 075 5 – 25 A2F 075.

Features:

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

Ordering Information:

Cable Gland Size	Cable Capacity A (mm)		Dim. D (mm)		Length F (mm)	Catalog Numbers						Weight (kg)
	Min.	Max.	Corner	Flat		Metric*		NPT		NPT (other versions)		
2016	3.2	8.7	26.6	24.0	21.0	M20	2016 A2F 5	1/2"	2016 A2F 050 5	3/4"	2016 A2F 075 5	0.07
20S	6.1	11.7	26.6	24.0	21.0	M20	20S A2F 5	1/2"	20S A2F 050 5	3/4"	20S A2F 075 5	0.06
20	6.5	14.0	31.0	27.0	24.0	M20	20 A2F 5	1/2"	20 A2F 050 5	3/4"	20 A2F 075 5	0.06
25	11.1	20.0	39.0	36.0	26.0	M25	25 A2F 5	3/4"	25 A2F 075 5	1"	25 A2F 100 5	0.12
32	17.0	26.3	45.0	41.0	27.0	M32	32 A2F 5	1"	32 A2F 100 5	1-1/4"	32 A2F 125 5	0.13
40	23.5	32.2	53.5	50.0	28.0	M40	40 A2F 5	1-1/4"	40 A2F 125 5	1-1/2"	40 A2F 150 5	0.18
50S	31.0	38.2	61.0	55.0	29.0	M50	50S A2F 5	1-1/2"	50S A2F 150 5	2"	50S A2F 200 5	0.24
50	35.6	44.1	66.0	60.0	30.0	M50	50 A2F 5	2"	50 A2F 200 5	2-1/2"	50 A2F 250 5	0.24
63S	41.5	50.0	77.5	70.0	30.0	M63	63S A2F 5	2"	63S A2F 200 5	2-1/2"	63S A2F 250 5	0.37
63	47.2	56.0	84.0	75.0	30.0	M63	63 A2F 5	2-1/2"	63 A2F 250 5	3"	63 A2F 300 5	0.36
75S	54.0	62.0	87.0	79.0	32.0	M75	75S A2F 5	2-1/2"	75S A2F 250 5	3"	75S A2F 300 5	0.42
75	61.1	68.0	94.0	84.0	32.0	M75	75 A2F 5	3"	75 A2F 300 5	3-1/2"	75 A2F 350 5	0.39
90	66.6	80.0	120.0	108.0	44.0	M90	90 A2F 5	3"	90 A2F 300 5	3-1/2"	90 A2FX 350 5	1.48
100	76.0	91.0	138.0	122.0	48.0	M100	100 A2F 5	4"	100 A2F 400 5	-	-	1.62

*Entry thread seal not supplied, see accessories section.

Accessories: (Locknut, entry thread seal, serrated washer, earth tag and shroud – see accessories section)

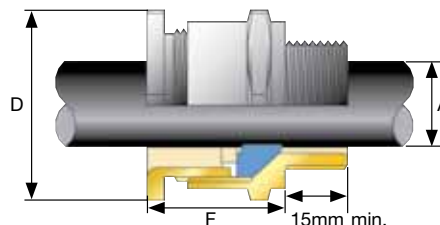
Compliances:

Hazardous Area	Gas	Dust
Certification Type	A2F	
Zones	1–2, 21–22	
Conforming to 94/9/CE ATEX	II 2 GD	
Symbol of Protection ATEX	Ex d IIC, Ex e II,	Ex tD A21
Symbol of Protection IEC	Ex nR II	
T Rating	–	
Surface Temperature	N.A.	
Ambient Temperature	-60°C to +130°C	
CE Declaration of Conformity	DC07001	
ATEX Certificate	SIRA 06 ATEX 1097X	
IECEX Certificate	IECEX SIR 06.0043X	
Other Certifications	CSA, GOST, Lloyds, DNV, ABS	
Index of Protection (solid and liquid)	IP66 / IP68 (10m)	

Standards:

Ex Standards	EN / IEC 60079-0; 60079-1; 60079-7; 60079-15; 61241-0; 61241-1
Product Standards	BS 6121, NF E 03 601 (conical thread); ISO 065/I/III (metric thread)

Dimensions (mm):



Cable Glands

E1FX / E2FX Series: Nickel Plated Brass Cable Glands for

Armored Cables with Elastomer Seal – Increased Safety and Flameproof

Zone 1 & 2 – 21 & 22

II 2 GD

ATEX / IECEx

IP66



E1FX & E2FX Series – Applications:

- Cable gland for armored cables (braid, tape, tape with lead sheath) certified for enclosures with the following protection modes:
 - Ex d flameproof IIB or IIC (as per §10.4.2 of IEC 60079-14) (Refer to Guide for Use of Electrical Products in Hazardous Locations - Pages G43 - G46.)
 - 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 explosion -proof protection mode of the enclosure.

Materials:

- Body: nickel plated brass (suffix 5).
- Seal: LSF (Low Smoke Fume) thermoplastic elastomer.
 - Inner displacement seal and LRS (Load Retention seal) outer seal.

Options:

- Lead sheath version – E2FX series: Replace digit 1 with 2. Example: 32 E1FX 5 – 32 E2FX 5.
- Brass version: remove last digit 5. Example: 25 E1FX 075 5 – 25 E1FX 075.

Ordering Information:

Cable Gland Size	Cable Capacity				Dim. D (mm)		Length F (mm)	Catalog Numbers							Weight (kg)
	Inner A		Outer B		Corner	Flat		Metric*		NPT		NPT (other versions)			
	Min.	Max.	Min.	Max.											
2016	3.1	8.7	6.1	11.5	26.6	24.0	58.5	M20	2016 E1FX 5	1/2"	2016 E1FX 050 5	3/4"	2016 E1FX 075 5		0.16
20S	6.1	11.7	9.5	15.9	26.6	24.0	58.5	M20	20S E1FX 5	1/2"	20S E1FX 050 5	3/4"	20S E1FX 075 5		0.16
20	6.5	14.0	12.5	20.9	33.3	30.5	60.5	M20	20 E1FX 5	1/2"	20 E1FX 050 5	3/4"	20 E1FX 075 5		0.21
25S	11.1	20.0	14.0	22.0	40.5	37.5	67.5	M25	25S E1FX 5	3/4"	25S E1FX 075 5	1"	25S E1FX 100 5		0.32
25	11.1	20.0	18.2	26.2	40.5	37.5	67.5	M25	25 E1FX 5	3/4"	25 E1FX 075 5	1"	25 E1FX 100 5		0.32
32	17.0	26.3	23.7	33.9	51.0	46.0	69.5	M32	32 E1FX 5	1"	32 E1FX 100 5	1-1/4"	32 E1FX 125 5		0.45
40	22.0	32.2	27.9	40.4	61.0	55.0	78.0	M40	40 E1FX 5	1-1/4"	40 E1FX 125 5	1-1/2"	40 E1FX 150 5		0.68
50S	29.5	38.2	35.2	46.7	66.5	60.0	75.5	M50	50S E1FX 5	1-1/2"	50S E1FX 150 5	2"	50S E1FX 200 5		0.73
50	35.6	44.1	40.4	53.1	78.6	70.0	80.5	M50	50 E1FX 5	2"	50 E1FX 200 5	2-1/2"	50 E1FX 250 5		0.75
63S	40.1	50.0	45.6	59.4	83.2	75.0	91.5	M63	63S E1FX 5	2"	63S E1FX 200 5	2-1/2"	63S E1FX 250 5		1.34
63	47.2	56.0	54.6	65.9	89.0	80.0	92.0	M63	63 E1FX 5	2-1/2"	63 E1FX 250 5	3"	63 E1FX 300 5		1.44
75S	52.8	62.0	59.0	72.1	101.6	89.0	99.0	M75	75S E1FX 5	2-1/2"	75S E1FX 250 5	3"	75S E1FX 300 5		2.07
75	59.1	68.0	66.7	78.5	111.1	99.0	102.0	M75	75 E1FX 5	3"	75 E1FX 300 5	3-1/2"	75 E1FX 350 5		2.62
90	66.6	80.0	76.2	90.4	128.6	114.0	120.0	M90	90 E1FX 5	3"	90 E1FX 300 5	3-1/2"	90 E1FX 350 5		4.17
100	76.0	91.0	86.1	101.5	138.0	123.0	148.0	M100	100 E1FX 5	4"	100 E1FX 400 5	-	-		4.52

*Entry thread seal not supplied, see accessories section.

Accessories: (Locknut, entry thread seal, serrated washer, earth tag and shroud – see accessories section)

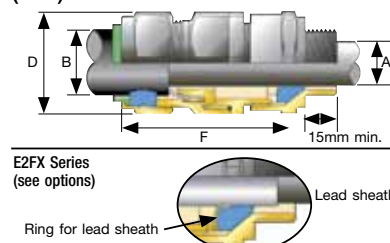
Compliances:

Hazardous Area	Gas	Dust
Certification Type	E1FX/Z - E2FX/Z	
Zones	1–2, 21–22	
Conforming to 94/9/CE ATEX	ⒺII 2 GD	
Symbol of Protection ATEX	Ex d IIC, Ex e II, Ex nR II	Ex tD A21
Symbol of Protection IEC		
T Rating	—	
Surface Temperature	N.A.	
Ambient Temperature	-60°C to +130°C	
CE Declaration of Conformity	DC07001	
ATEX Certificate	SIRA 06 ATEX 1097X	
IECEx Certificate	IECEx SIR 06.0043X	
Other Certifications	GOST	
Index of Protection (solid and liquid)	IP66	

Standards:

Ex Standards	EN / IEC 60079-0; 60079-1; 60079-7; 60079-15; 61241-0; 61241-1
Product Standards	BS 6121, NF E 03 601 (conical thread); ISO 065/I/III (metric thread)
Other Standards	GOST

Dimensions (mm):



Cable Glands

E1FW / E2FW: Nickel Plated Brass Cable Glands for Armored Cables with Elastomer Seal – Increased Safety and Flameproof

Zone 1 & 2 – 21 & 22

Ex II 2 GD

ATEX / IECEx

IP66



E1FW & E2FW Series – 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 (as per §10.4.2 of IEC 60079-14) (Refer to Guide for Use of Electrical Products in Hazardous Locations - Pages G43 - G46).
 - 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.

Materials:

- Body: nickel plated brass (suffix 5).
- Seal: LSF (Low Smoke Fume) thermoplastic elastomer.
 - Inner displacement seal and LRS (Load Retention seal) outer seal.

Options:

- Lead sheath version – E2FW series: Replace digit 1 with 2.
Example: 32 E1FW 5 – 32 E2FW 5.
- Brass version: remove last digit 5.
Example: 25 E1FW 075 5 – 25 E1FW 075.

Ordering Information:

Cable Gland Size	Cable Capacity				Dim. D (mm)		Length F (mm)	Catalog Numbers							Weight (kg)
	Inner A		Outer B		Corner	Flat		Metric*		NPT		NPT (other versions)			
	Min.	Max.	Min.	Max.											
2016	3.1	8.7	6.1	11.5	26.6	24.0	58.5	M20	2016 E1FW 5	1/2"	2016 E1FW 050 5	3/4"	2016 E1FW 075 5	0.16	
20S	6.1	11.7	9.5	15.9	26.6	24.0	58.5	M20	20S E1FW 5	1/2"	20S E1FW 050 5	3/4"	20S E1FW 075 5	0.16	
20	6.5	14.0	12.5	20.9	33.3	30.5	60.5	M20	20 E1FW 5	1/2"	20 E1FW 050 5	3/4"	20 E1FW 075 5	0.20	
25S	11.1	20.0	14.0	22.0	40.5	37.5	67.5	M25	25S E1FW 5	3/4"	25S E1FW 075 5	1"	25S E1FW 100 5	0.32	
25	11.1	20.0	18.2	26.2	40.5	37.5	67.5	M25	25 E1FW 5	3/4"	25 E1FW 075 5	1"	25 E1FW 100 5	0.32	
32	17.0	26.3	23.7	33.9	51.0	46.0	69.5	M32	32 E1FW 5	1"	32 E1FW 100 5	1-1/4"	32 E1FW 125 5	0.45	
40	22.0	32.2	27.9	40.4	61.0	55.0	78.0	M40	40 E1FW 5	1-1/4"	40 E1FW 125 5	1-1/2"	40 E1FW 150 5	0.67	
50S	29.5	38.2	35.2	46.7	66.5	60.0	75.5	M50	50S E1FW 5	1-1/2"	50S E1FW 150 5	2"	50S E1FW 200 5	0.73	
50	35.6	44.1	40.4	53.1	78.6	70.0	80.5	M50	50 E1FW 5	2"	50 E1FW 200 5	2-1/2"	50 E1FW 250 5	0.75	
63S	40.1	50.0	45.6	59.4	83.2	75.0	91.5	M63	63S E1FW 5	2"	63S E1FW 200 5	2-1/2"	63S E1FW 250 5	1.34	
63	47.2	56.0	54.6	65.9	89.0	80.0	92.0	M63	63 E1FW 5	2-1/2"	63 E1FW 250 5	3"	63 E1FW 300 5	1.44	
75S	52.8	62.0	59.0	72.1	101.6	89.0	99.0	M75	75S E1FW 5	2-1/2"	75S E1FW 250 5	3"	75S E1FW 300 5	2.07	
75	59.1	68.0	66.7	78.5	111.1	99.0	102.0	M75	75 E1FW 5	3"	75 E1FW 300 5	3-1/2"	75 E1FW 350 5	2.62	
90	66.6	80.0	76.2	90.4	128.6	114.0	120.0	M90	90 E1FW 5	3"	90 E1FW 300 5	3-1/2"	90 E1FW 350 5	4.17	
100	76.0	91.0	86.1	101.5	138.0	123.0	148.0	M100	100 E1FW 5	4"	100 E1FW 400 5	-	-	4.52	

*Entry thread seal not supplied, see accessories section.

Accessories: (Locknut, entry thread seal, serrated washer, earth tag and shroud - see accessories section)

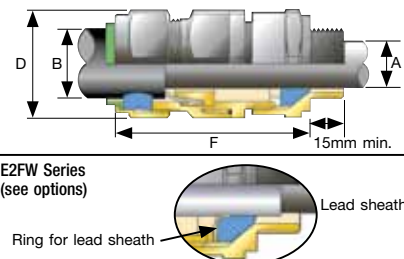
Compliances:

Hazardous Area	Gas	Dust
Certification Type	E1FW/Z - E2FW/Z	
Zones	1-2, 21-22	
Conforming to 94/9/CE ATEX	Ex II 2 GD	
Symbol of Protection ATEX	Ex d IIC, Ex e II,	Ex tD A21
Symbol of Protection IEC	Ex nR II	
T Rating	-	
Surface Temperature	N.A.	
Ambient Temperature	-60°C to +130°C	
CE Declaration of Conformity	DC07001	
ATEX Certificate	SIRA 06 ATEX 1097X	
IECEx Certificate	IECEx SIR 06.0043X	
Other Certifications	GOST	
Index of Protection (solid and liquid)	IP66	

Standards:

Ex Standards	EN / IEC 60079-0; 60079-1; 60079-7; 60079-15; 61241-0; 61241-1
Product Standards	BS 6121, NF E 03 601 (conical thread); ISO 065/I/III (metric thread)
Other Standards	GOST

Dimensions (mm):



Cable Glands

T3 Series: Nickel Plated Brass Cable Glands for Armored Cables with Elastomer Seal – Increased Safety and Flameproof

Zone 1 & 2 – 21 & 22

II 2 GD

ATEX / IECEx

IP66 / 68 (10 m)



T3 Series – Applications:

- Cable gland for all types of armored cable certified for enclosures with the following protection modes:
 - Ex d flameproof IIB or IIC (as per §10.4.2 of IEC 60079-14) (Refer to Guide for Use of Electrical Products in Hazardous Locations - Pages G43 - G46.).
 - 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 all types of armored cable.
- This product utilizes a unique Compensating Displacement Seal (CDS) system which provides full compatibility with restricted breathing equipment.
- The CDS system is designed to alleviate any pressure on soft bedded cables.
- The cable gland allows mechanical cable retention and earth continuity via armor termination.

- A reversible armor cone and AnyWay universal clamping ring arrangement allows the cable to be easily disconnected from equipment.
- The cable gland is IP66 / 68 and complies with deluge protection tests.
- Inspection of the armor can be carried out while still maintaining the protection mode of the enclosure.

Materials:

- Body: nickel plated brass (suffix 5).
- Seal: LSF (Low Smoke Fume) thermoplastic elastomer.
 - Inner CDS system and LRS (Load Retention Seal) outer seal.

Options:

- 316L stainless steel version: replace last digit 5 with 4.
Example: 25 T3 075 5 – 25 T3 075 4.
- Lead sheath version: replace T3 with T3PB.
Example: 25 T3 075 5 – 25 T3PB 075 5.
- Brass version: remove last digit 5.
Example: 25 T3 075 5 – 25 T3 075.

Ordering Information:

Cable Gland Size	Cable Capacity				Dim. D (mm)		Length F (mm)	Catalog Numbers						Weight (kg)
	Inner A		Outer B		Corner	Flat		Metric*		NPT		NPT (other versions)		
	Min.	Max.	Min.	Max.										
2016	3.1	8.7	6.1	11.5	26.6	24.0	65.0	M20	2016 T3 5	1/2"	2016 T3 050 5	3/4"	2016 T3 075 5	0.17
20S	6.1	11.7	9.5	15.9	26.6	24.0	64.0	M20	20S T3 5	1/2"	20S T3 050 5	3/4"	20S T3 075 5	0.17
20	6.5	14.0	12.5	20.9	33.3	30.5	63.0	M20	20 T3 5	1/2"	20 T3 050 5	3/4"	20 T3 075 5	0.26
25S	11.1	20.0	14.0	22.0	40.5	37.5	74.0	M25	25S T3 5	3/4"	25S T3 075 5	1"	25S T3 100 5	0.38
25	11.1	20.0	18.2	26.2	40.5	37.5	76.0	M25	25 T3 5	3/4"	25 T3 075 5	1"	25 T3 100 5	0.38
32	17.0	26.3	23.7	33.9	51.0	46.0	80.0	M32	32 T3 5	1"	32 T3 100 5	1-1/4"	32 T3 125 5	0.56
40	22.0	32.2	27.9	40.4	61.0	55.0	75.0	M40	40 T3 5	1-1/4"	40 T3 125 5	1-1/2"	40 T3 150 5	0.85
50S	29.5	38.2	35.2	46.7	66.5	60.0	93.0	M50	50S T3 5	1-1/2"	50S T3 150 5	2"	50S T3 200 5	1.05
50	35.6	44.1	40.4	53.1	78.6	70.0	100.0	M50	50 T3 5	2"	50 T3 200 5	2-1/2"	50 T3 250 5	1.52
63S	40.1	50.0	45.6	59.4	83.2	75.0	95.0	M63	63S T3 5	2"	63S T3 200 5	2-1/2"	63S T3 250 5	1.75
63	47.2	56.0	54.6	65.9	89.0	80.0	98.0	M63	63 T3 5	2-1/2"	63 T3 250 5	3"	63 T3 300 5	1.68
75S	52.8	62.0	59.0	72.1	101.6	89.0	105.0	M75	75S T3 5	2-1/2"	75S T3 250 5	3"	75S T3 300 5	2.34
75	59.1	68.0	66.7	78.5	111.1	99.0	112.0	M75	75 T3 5	3"	75 T3 300 5	3-1/2"	75 T3 350 5	3.20
90	66.6	80.0	76.2	90.4	128.6	114.0	132.0	M90	90 T3 5	3"	90 T3 300 5	3-1/2"	90 T3 350 5	5.10
100	76.0	91.0	86.1	101.5	138.0	123.0	160.0	M100	100 T3 5	4"	100 T3 400 5	-	-	6.30

*Entry thread seal not supplied, see accessories section.

Accessories: (Locknut, entry thread seal, serrated washer, earth tag and shroud - see accessories section)

Compliances:

Hazardous Area	Gas	Dust
Certification Type	T3CDS	
Zones	1-2, 21-22	
Conforming to 94/9/CE ATEX	II 2 GD	
Symbol of Protection ATEX	Ex d IIC, Ex e II,	Ex tD A21
Symbol of Protection IEC	Ex nR II	
T Rating	-	
Surface Temperature	N.A.	
Ambient Temperature	-60°C to +130°C	
CE Declaration of Conformity	DC07001	
ATEX Certificate	SIRA 06 ATEX 1283X	
IECEx Certificate	IECEx SIR 07.005X	
Other Certifications	CSA, UL, GOST, Lloyds, DNV, ABS	
Index of Protection (solid and liquid)	IP66/68 (10m)	

Standards:

Ex Standards	EN / IEC 60079-0; 60079-1; 60079-7; 60079-15; 61241-0; 61241-1
Product Standards	BS 6121, NF E 03 601 (conical thread); ISO 065/III (metric thread)
Other Standards	GOST, UL, CSA

Dimensions (mm):

T3 Series

