

ADE-1FC non-armored cable glands

IECEX/ATEX
NEMA 4X
IP66/IP68

1G

1G

ADE-1FC cable glands are designed to provide a flameproof and weatherproof seal on the outer sheath of non-armored, tray, marine shipboard or Type P cable. ADE glands are available in a wide range of materials to suit any application.

Cable types:

- Non-armored and tray cable – TC, TC-ER (HL)
- Marine shipboard cable; Type P cable



Standard materials:

- Nickel-plated brass for superior corrosion resistance
- 316L stainless steel, bronze and aluminum (optional); it is recommended that a suitable lubricant be used on all threads of stainless steel and aluminum versions

Ingress protection (IP):

- IP66/IP68 according to the method of attachment and the condition of the equipment area; equipped with deluge seal
- NEMA 4X

Sealing ring and TSC compound provides 100% of cable clamping



Certifications and compliances:



ATEX Certificate No.: INERIS12ATEX0032X

- Zones 1 & 2, Groups IIA, IIB, IIC
- Zones 21 & 22, Groups IIIA, IIIB, IIIC
- Ex II2GD / Ex db IIC / Ex eb IIC / Ex tb IIIC
- Ex II3G Ex nRc IIC
- Ex IM2 / Ex db I / Ex eb I; for mining applications: brass, stainless steel or bronze – ADE sizes 11 to 16, 2" to 4" NPT, ISO 63 to 110

IECEX Certificate No.: IECEx INE 12.0025X

- Zones 1 & 2, Groups IIA, IIB, IIC
- Zones 21 & 22, Groups IIIA, IIIB, IIIC
- Ex db IIC / Ex eb IIC / Ex nRc IIC / Ex tb IIIC
- Ex db I / Ex eb I; for mining applications: brass, stainless steel or bronze – ADE sizes 11 to 16, 2" to 4" NPT, ISO 63 to 110

UL certifications:

3DJN E310130, Class I, Zone 2A, AEx de II, Ex de II

- ADE sizes 4 to 16, 1/2" to 4" NPT or ISO 20 to 110 with non-armored cable types ITC, MV, PLTC, TC-ER, TC-ER-HL, TC and TSC epoxy sealing compound

3DJN E310130, Class I, Division 1, Groups A, B, C, D

- ADE sizes 4 to 9, 1/2" to 1 1/4" NPT or ISO 20 to 40 with non-armored cable type TC-ER-HL and TSC epoxy sealing compound

3DJN E310130, Class I, Division 2, Groups A, B, C, D

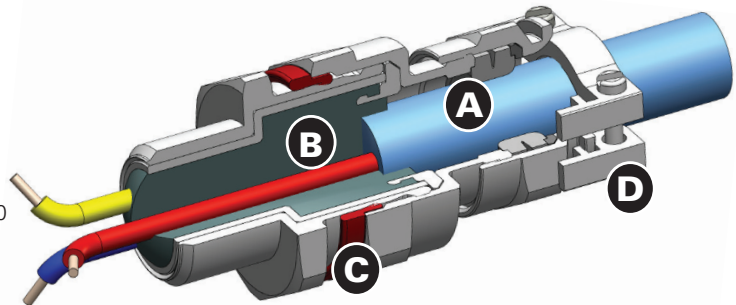
- ADE sizes 4 to 16, 1/2" to 4" NPT or ISO 20 to 110 with non-armored cable types PLTC, PLTC-ER, ITC, ITC-ER, ITC-HL, TC, TC-ER, TC-ER-HL, MV and TSC epoxy sealing compound

4EC5 E324850, Class I, Division 2, Groups A, B, C, D

- ADE sizes 4 to 16, 1/2" to 4" NPT or ISO 20 to 110 with non-armored marine cable and TSC epoxy sealing compound

Operating temperatures:

- For all certificates (excluding UL E324850): -60°C to +80°C
- For UL certificate E324850: -25°C to +40°C



Features:

- (A) Specifically formulated elastomer** – provides IP sealing on outer sheath of the cable
- (B) Barrier compound chamber** – seals conductors for explosionproof applications with use of TSC compound barrier seal
- (C) Deluge seal** – additional protection against moisture ingress
- (D) Optional external clamp** – provides additional external strain relief for rugged applications

Other certifications:

- CEPEL 05.0558X
- CCoE P360379-1
- KOSHA 2015-BO-0479 to 0482
- NANIO TC-RU C-FR. r505.B.00858
- NEPSI GYJ13.1082X

Shipping application:

- ABS 14-HS1274083-PDA
- BV 40910/A0 BV
- DNV TAE000010X
- Lloyds 11/00072
- DTS-01:1991

^A Can be used in Division 2, provided that the enclosure contains no components that produce arcs or sparks.

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Ordering information:

Part number example
ADE1CM253NPSCNK1

ADE1C **M25** **3** **NP** **SCN** **K1**

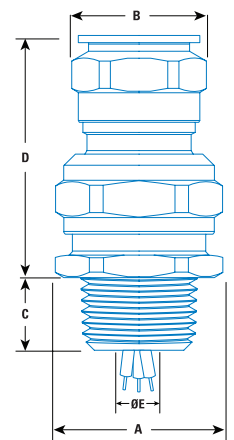
Hub size			
NPT	Hub	Metric	Hub
N038	3/8"	M16	16mm
N050	1/2"	M20	20mm
N075	3/4"	M25	25mm
N100	1"	M32	32mm
N125	1 1/4"	M40	40mm
N150	1 1/2"	M50	50mm
N200	2"	M63	63mm
N250	2 1/2"	M75	75mm
N300	3"	M90	90mm
N350	3 1/2"	M110	110mm
N400	4"		

Cable sealing range	
0	Extra small
1	Small
2	Medium
3	Large

Material	
NP	Nickel-plated brass
SS	Stainless steel

Sealing compound	
SCN	TSC solid compound

Accessory kits (see page 228)	
BLANK	No kit
K1	Locknut, green composite washer
K2	Locknut, green composite washer, earth tag, shroud
K3	Locknut, green composite washer, earth tag, shroud, serrated washer



NPT thread size	Cat. # NPT	Metric thread size	Cat. # Metric	Cable sealing range				NPT threads (C)	Metric threads (C)	D	E	Max. no. of cores	Gland size
				Min.	Max.	A	B						
3/8" B	ADE1CN0383NPSCN	M16	ADE1CM163NPSCN	0.16 (4.0)	0.33 (8.0)	0.75 (19.0)	0.59 (15.0)	0.65 (16.6)	0.59 (15.0)	1.42 (36.0)	0.26 (6.5)	6	4
1/2"	ADE1CN0501NPSCN	M20	ADE1CM201NPSCN	0.16 (4.0)	0.33 (8.0)	0.94 (24.0)	0.59 (15.0)	0.87 (22.2)	0.59 (15.0)	1.42 (36.0)	0.26 (6.5)	6	4
1/2"	ADE1CN0502NPSCN	M20	ADE1CM202NPSCN	0.24 (6.0)	0.47 (12.0)	0.94 (24.0)	0.75 (19.0)	0.87 (22.2)	0.59 (15.0)	1.65 (42.0)	0.37 (9.5)	6	5
1/2"	ADE1CN0503NPSCN	M20	ADE1CM203NPSCN	0.33 (8.5)	0.63 (16.0)	1.18 (30.0)	0.94 (24.0)	0.87 (22.2)	0.59 (15.0)	1.89 (48.0)	0.47 (12.0)	10	6
3/4"	ADE1CN0752NPSCN	M25	ADE1CM252NPSCN	0.33 (8.5)	0.63 (16.0)	1.18 (30.0)	0.94 (24.0)	0.89 (22.5)	0.59 (15.0)	1.89 (48.0)	0.47 (12.0)	10	6
3/4"	ADE1CN0753NPSCN	M25	ADE1CM253NPSCN	0.47 (12.0)	0.83 (21.0)	1.61 (41.0)	1.18 (30.0)	0.89 (22.5)	0.59 (15.0)	2.28 (58.0)	0.67 (17.0)	21	7
1"	ADE1CN1002NPSCN	M32	ADE1CM322NPSCN	0.47 (12.0)	0.83 (21.0)	1.61 (41.0)	1.18 (30.0)	1.07 (27.3)	0.59 (15.0)	2.28 (58.0)	0.67 (17.0)	21	7
1"	ADE1CN1003NPSCN	M32	ADE1CM323NPSCN	0.63 (16.0)	1.08 (27.5)	1.89 (48.0)	1.61 (41.0)	1.07 (27.3)	0.59 (15.0)	2.76 (70.0)	0.91 (23.0)	42	8
1 1/4"	ADE1CN1252NPSCN	M40	ADE1CM402NPSCN	0.63 (16.0)	1.08 (27.5)	1.89 (48.0)	1.61 (41.0)	1.10 (28.0)	0.59 (15.0)	2.76 (70.0)	0.91 (23.0)	42	8
1 1/4"	ADE1CN1253NPSCN	M40	ADE1CM403NPSCN	0.83 (21.0)	1.34 (34.0)	2.17 (55.0)	1.89 (48.0)	1.10 (28.0)	0.59 (15.0)	3.11 (79.0)	1.14 (29.0)	60	9
1 1/2"	ADE1CN1502NPSCN	M50	ADE1CM502NPSCN	0.83 (21.0)	1.34 (34.0)	2.17 (55.0)	1.89 (48.0)	1.12 (28.5)	0.63 (16.0)	3.11 (79.0)	1.14 (29.0)	60	9
2"	ADE1CN2001NPSCN	M50	ADE1CM501NPSCN	1.06 (27.0)	1.61 (41.0)	2.52 (64.0)	2.17 (55.0)	1.15 (29.2)	0.63 (16.0)	3.46 (88.0)	1.44 (36.5)	80	10
2"	ADE1CN2002NPSCN	M63	ADE1CM632NPSCN	2.48 (63.0)	3.27 (83.0)	4.72 (120.0)	4.33 (110.0)	1.15 (29.2)	0.67 (17.0)	3.86 (98.0)	1.69 (43.0)	100	11
2"	ADE1CN2003NPSCN	M63	ADE1CM633NPSCN	1.57 (40.0)	2.20 (56.0)	3.35 (85.0)	2.83 (72.0)	1.15 (29.2)	0.67 (17.0)	4.06 (103.0)	1.97 (50.0)	100	12
2 1/2"	ADE1CN2502NPSCN	—	—	1.57 (40.0)	2.20 (56.0)	3.35 (85.0)	2.83 (72.0)	1.67 (42.5)	—	4.06 (103.0)	1.97 (50.0)	100	12
2 1/2"	ADE1CN2503NPSCN	M75	ADE1CM753NPSCN	1.81 (46.0)	2.56 (65.0)	3.74 (95.0)	3.35 (85.0)	1.67 (42.5)	0.71 (18.0)	4.37 (111.0)	2.32 (59.0)	120	13
3"	ADE1CN3001NPSCN	—	—	1.81 (46.0)	2.56 (65.0)	3.74 (95.0)	3.35 (85.0)	1.73 (44.0)	—	4.37 (111.0)	2.32 (59.0)	120	13
3"	ADE1CN3002NPSCN	M90	ADE1CM902NPSCN	2.13 (54.0)	2.91 (74.0)	4.33 (110.0)	3.74 (95.0)	1.73 (44.0)	0.87 (22.0)	4.72 (120.0)	2.60 (66.0)	140	14
3 1/2"	ADE1CN3502NPSCN	—	—	2.13 (54.0)	2.91 (74.0)	4.33 (110.0)	3.74 (95.0)	1.78 (45.2)	—	4.72 (120.0)	2.60 (66.0)	140	14
3"	ADE1CN3003NPSCN	M90	ADE1CM903NPSCN	2.48 (63.0)	3.27 (83.0)	4.72 (120.0)	4.33 (110.0)	1.73 (44.0)	0.87 (22.0)	4.92 (125.0)	2.95 (75.0)	140	15
3 1/2"	ADE1CN3503NPSCN	—	—	2.48 (63.0)	3.27 (83.0)	4.72 (120.0)	4.33 (110.0)	1.78 (45.2)	—	4.92 (125.0)	2.95 (75.0)	140	15
4"	ADE1CN4003NPSCN	M110	ADE1CM1103NPSCN	2.83 (72.0)	3.66 (93.0)	5.31 (135.0)	4.72 (120.0)	1.83 (46.5)	0.87 (22.0)	5.04 (128.0)	3.35 (85.0)	200	16

Catalog numbers are for nickel-plated brass; refer to part number builder above for other options.

Dimensions shown in inches (millimeters).

B Not UL certified.

EATON CROUSE-HINDS
SERIES

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