

ADE-4F armored cable glands

IECEX/ATEX
IP66/IP68

1G

Cable types:

- Steel wire armored cable (SWA) 
- Steel wire braided cable (SWB) 
- Steel tape armored cable (STA) 
- Braided marine shipboard cable; Type P cable 
- Lead sheathed cable (with addition of earthing washer) 

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

Certifications and compliances:



ATEX Certificate No.: INERIS12ATEX0032X

- Zones 1 & 2, Groups IIA, IIB, IIC
- Zones 21 & 22, Groups IIIA, IIIB, IIIC
- Ex IIC / Ex db IIC / Ex eb IIC / Ex tb IIIC
- Ex IIC Ex nRc IIC
- Ex IM2 / Ex db I / Ex eb I; for mining applications: brass or bronze – ADE sizes 8 to 17; 3/4" to 4" NPT, ISO 25 to 110; stainless steel – ADE sizes 4 to 17; 3/8" to 4" NPT, ISO 16 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 or bronze – ADE sizes 8 to 17; 3/4" to 4" NPT, ISO 25 to 110; stainless steel – ADE sizes 4 to 17; 3/8" to 4" NPT, ISO 16 to 110

UL certifications:

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

- ADE sizes 4 to 17; 1/2" to 4" NPT or ISO 20 to 110 with armored cable types ITC, MV, PLTC, TC-ER, TC-ER-HL, TC

 **3LRC E314047, Class I, Zone 2A, AEx e II, Ex e II**

- ADE sizes 4 to 17; 1/2" to 4" NPT or ISO 20 to 110 with armored marine cable

Other certifications:

- CEPEL 05.0559X
- CCoE P360379-1
- KOSHA 2015-BO-0245 to 0248
- NANIO TC-RU C-FR. T505.B.00858
- NEPSI GYJ13.1082X

Shipping application:

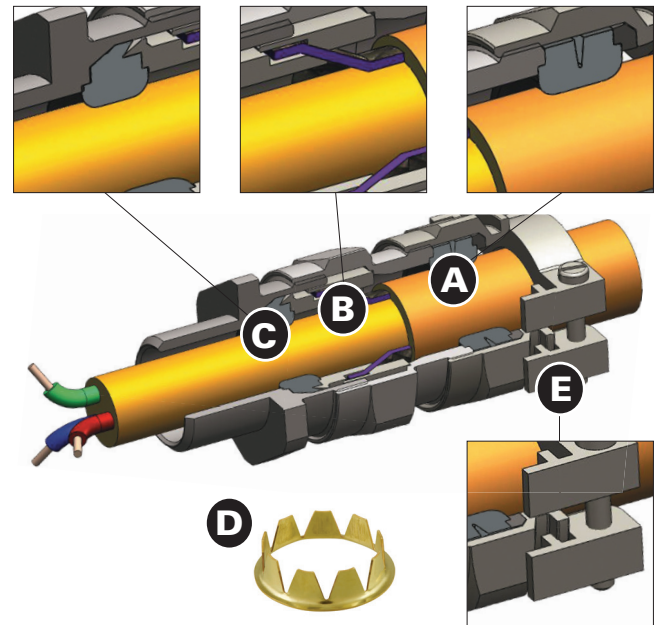
- ABS 14-HS1274083-PDA
- BV 40910/A0 BV
- DNV TAE000010X
- Lloyds 11/00072
- DTS-01:1991 compliant

Double seal provides 100% of cable clamping, including braided cables.



Operating temperature:

- -60°C to +140°C



Features:

- **A Specifically formulated elastomer** – used on the outer sheath of the cable to provide IP66 or IP68 moisture ingress protection
- **B Universal clamping design** – for earthing and bonding of armor shield; provides mechanical strength and is suitable for all armor shield types, with no requirement to reverse components that may introduce risk of incorrect installation
- **C Specifically formulated elastomer** – for flame path sealing on inner sheath of the cable
- **D Suitable for lead sheath cable with installation of simple washer**
- **E Optional external clamp** – provides additional external strain relief for rugged applications

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

Ordering information:

Part number example
ADE4M253NPNK1

ADE4

M25

3

NPN

K1

Hub size

NPT	Hub	Metric	Hub
N025	¼"	M12	12mm
N038	⅜"	M16	16mm
N050	½"	M20	20mm
N075	¾"	M25	25mm
N100	1"	M32	32mm
N125	1¼"	M40	40mm
N150	1½"	M50	50mm
N200	2"	M63	63mm
N250	2½"	M75	75mm
N300	3"	M90	90mm
N350	3½"	M110	110mm
N400	4"		

Cable sealing range

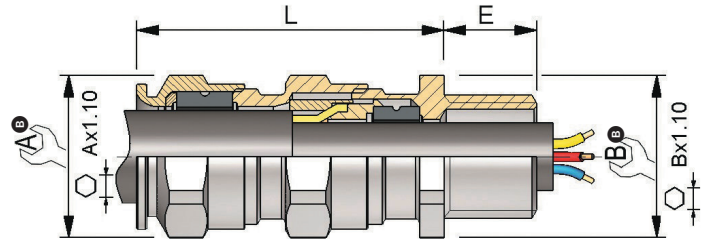
0	Extra small
1	Small
2	Medium
3	Large

Material

NPN	Nickel-plated brass
SSN	Stainless steel
BZN	Bronze
ALN	Aluminum (not Group I)

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, serrated washer



NPT thread size	Cat. # NPT	Metric thread size	Cat. # Metric	Cable sealing range inner sheath		Cable sealing range outer sheath		Armor		A	B	Length (L)	E (NPT)	E (Metric)	Gland size
				Min.	Max.	Min.	Max.	Min.	Max.						
¼" Ⓢ	ADE4N0253NPN	M12 Ⓢ	ADE4M123NPN	0.18 (4.5)	0.28 (7.0)	0.28 (7.0)	0.47 (12.0)	0.01 (0.2)	0.04 (0.9)	0.75 (19.0)	0.75 (19.0)	1.81 (46.0)	—	0.59 (15.0)	5
⅜" Ⓢ	ADE4N0381NPN	M16 Ⓢ	ADE4M161NPN	0.11 (2.8)	0.22 (5.5)	0.18 (4.5)	0.33 (8.5)	0.01 (0.2)	0.04 (0.9)	0.67 (17.0)	0.75 (19.0)	1.61 (41.0)	0.65 (16.6)	0.59 (15.0)	4
⅜" Ⓢ	ADE4N0382NPN	M16 Ⓢ	ADE4M162NPN	0.18 (4.5)	0.33 (8.5)	0.28 (7.0)	0.47 (12.0)	0.01 (0.2)	0.04 (0.9)	0.75 (19.0)	0.75 (19.0)	1.81 (46.0)	0.65 (16.6)	0.59 (15.0)	5
⅜" Ⓢ	ADE4N0383NPN	M16 Ⓢ	ADE4M163NPN	0.28 (7.0)	0.47 (12.0)	0.39 (10.0)	0.63 (16.0)	0.01 (0.2)	0.05 (1.3)	0.94 (24.0)	0.94 (24.0)	2.01 (51.0)	0.65 (16.6)	0.59 (15.0)	6
½" Ⓢ	ADE4N0500NPN	M20	ADE4M200NPN	0.11 (2.8)	0.22 (5.5)	0.18 (4.5)	0.33 (8.5)	0.01 (0.2)	0.04 (0.9)	0.67 (17.0)	0.94 (24.0)	1.61 (41.0)	0.87 (22.2)	0.59 (15.0)	4
½" Ⓢ	ADE4N0501NPN	M20	ADE4M201NPN	0.18 (4.5)	0.33 (8.5)	0.28 (7.0)	0.47 (12.0)	0.01 (0.2)	0.04 (0.9)	0.75 (19.0)	0.94 (24.0)	1.81 (46.0)	0.87 (22.2)	0.59 (15.0)	5
½" Ⓢ	ADE4N0502NPN	M20	ADE4M202NPN	0.28 (7.0)	0.47 (12.0)	0.39 (10.0)	0.63 (16.0)	0.01 (0.2)	0.05 (1.3)	0.94 (24.0)	0.94 (24.0)	2.01 (51.0)	0.87 (22.2)	0.59 (15.0)	6
½" Ⓢ	ADE4N0503NPN	M20	ADE4M203NPN	0.39 (10.0)	0.61 (15.5)	0.53 (13.5)	0.83 (21.0)	0.01 (0.2)	0.05 (1.3)	1.18 (30.0)	1.18 (30.0)	2.26 (57.5)	0.87 (22.2)	0.59 (15.0)	7
¾" Ⓢ	ADE4N0751NPN	M25	ADE4M251NPN	0.28 (7.0)	0.47 (12.0)	0.39 (10.0)	0.63 (16.0)	0.01 (0.2)	0.05 (1.3)	0.94 (24.0)	1.18 (30.0)	2.01 (51.0)	0.89 (22.5)	0.59 (15.0)	6
¾" Ⓢ	ADE4N0752NPN	M25	ADE4M252NPN	0.39 (10.0)	0.61 (15.5)	0.53 (13.5)	0.83 (21.0)	0.01 (0.2)	0.05 (1.3)	1.18 (30.0)	1.18 (30.0)	2.26 (57.5)	0.89 (22.5)	0.59 (15.0)	7
¾" Ⓢ	ADE4N0753NPN	M25	ADE4M253NPN	0.53 (13.5)	0.81 (20.5)	0.71 (18.0)	1.08 (27.5)	0.01 (0.2)	0.06 (1.6)	1.61 (41.0)	1.61 (41.0)	2.68 (68.0)	0.89 (22.5)	0.59 (15.0)	8
1" Ⓢ	ADE4N1002NPN	M32	ADE4M322NPN	0.53 (13.5)	0.83 (21.0)	0.71 (18.0)	1.08 (27.5)	0.01 (0.2)	0.06 (1.6)	1.61 (41.0)	1.61 (41.0)	2.68 (68.0)	1.07 (27.3)	0.59 (15.0)	8
1" Ⓢ	ADE4N1003NPN	M32	ADE4M323NPN	0.71 (18.0)	1.02 (26.0)	0.91 (23.0)	1.34 (34.0)	0.01 (0.2)	0.06 (1.6)	1.89 (48.0)	1.89 (48.0)	2.99 (76.0)	1.07 (27.3)	0.59 (15.0)	9
1¼" Ⓢ	ADE4N1252NPN	M40	ADE4M402NPN	0.71 (18.0)	1.08 (27.5)	0.91 (23.0)	1.34 (34.0)	0.01 (0.2)	0.06 (1.6)	1.89 (48.0)	1.89 (48.0)	2.99 (76.0)	1.10 (28.0)	0.59 (15.0)	9
1¼" Ⓢ	ADE4N1253NPN	M40	ADE4M403NPN	0.91 (23.0)	1.34 (34.0)	1.14 (29.0)	1.61 (41.0)	0.01 (0.2)	0.08 (2.0)	2.17 (55.0)	2.17 (55.0)	3.46 (88.0)	1.10 (28.0)	0.59 (15.0)	10
1½" Ⓢ	ADE4N1502NPN	M50	ADE4M502NPN	0.91 (23.0)	1.34 (34.0)	1.14 (29.0)	1.61 (41.0)	0.01 (0.2)	0.08 (2.0)	2.17 (55.0)	2.17 (55.0)	3.46 (88.0)	1.12 (28.5)	0.63 (16.0)	10
1½" Ⓢ	ADE4N1503NPN	M50	ADE4M503NPN	1.14 (29.0)	1.61 (41.0)	1.38 (35.0)	1.89 (48.0)	0.01 (0.2)	0.10 (2.5)	2.52 (64.0)	2.52 (64.0)	3.82 (97.0)	1.12 (28.5)	0.63 (16.0)	11
2" Ⓢ	ADE4N2002NPN	M63	ADE4M632NPN	1.38 (35.0)	1.89 (48.0)	1.65 (42.0)	2.20 (56.0)	0.01 (0.2)	0.10 (2.5)	2.83 (72.0)	2.83 (72.0)	4.02 (102.0)	1.15 (29.2)	0.67 (17.0)	12
2" Ⓢ	ADE4N2003NPN	M63	ADE4M633NPN	1.65 (42.0)	2.09 (53.0)	1.97 (50.0)	2.56 (65.0)	0.01 (0.2)	0.10 (2.5)	3.35 (85.0)	3.35 (85.0)	4.61 (117.0)	1.15 (29.2)	0.67 (17.0)	13
2½" Ⓢ	ADE4N2502NPN	M75	ADE4M752NPN	1.65 (42.0)	2.20 (56.0)	1.97 (50.0)	2.56 (65.0)	0.01 (0.2)	0.10 (2.5)	3.35 (85.0)	3.35 (85.0)	4.61 (117.0)	1.67 (42.5)	0.71 (18.0)	13
2½" Ⓢ	ADE4N2503NPN	M75	ADE4M753NPN	1.97 (50.0)	2.46 (62.5)	2.28 (58.0)	2.91 (74.0)	0.01 (0.2)	0.10 (2.5)	3.74 (95.0)	3.74 (95.0)	4.88 (124.0)	1.67 (42.5)	0.71 (18.0)	14
3" Ⓢ	ADE4N3001NPN	M90	ADE4M901NPN	2.28 (58.0)	2.91 (74.0)	2.60 (66.0)	3.27 (83.0)	0.01 (0.2)	0.13 (3.2)	4.33 (110.0)	4.33 (110.0)	5.24 (133.0)	1.73 (44.0)	0.87 (22.0)	15
3" Ⓢ	ADE4N3002NPN	M90	ADE4M902NPN	2.60 (66.0)	3.07 (78.0)	2.95 (75.0)	3.66 (93.0)	0.01 (0.2)	0.13 (3.2)	4.72 (120.0)	4.72 (120.0)	5.51 (140.0)	1.73 (44.0)	0.87 (22.0)	16
3½" Ⓢ	ADE4N3503NPN	M90	ADE4M903NPN	2.60 (66.0)	3.27 (83.0)	3.35 (85.0)	4.09 (104.0)	0.01 (0.2)	0.14 (3.5)	5.31 (135.0)	5.31 (135.0)	5.91 (150.0)	1.78 (45.2)	0.87 (22.0)	17
4" Ⓢ	ADE4N4003NPN	M110	ADE4M1103NPN	2.95 (75.0)	3.66 (93.0)	3.35 (85.0)	4.09 (104.0)	0.01 (0.2)	0.14 (3.5)	5.31 (135.0)	5.31 (135.0)	5.91 (150.0)	1.83 (46.5)	0.87 (22.0)	17

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

Dimensions shown in inches (millimeters).

Ⓢ For across corners dimensions, multiply across flats dimensions by 1.1.

Ⓢ Not UL certified.