ADE-4F armored cable glands

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
- II2GD / Ex db IIC / Ex eb IIC / Ex tb IIIC
- II3G Ex nRc IIC
- IM2 / Ex db I / Ex eb I; for mining applications: brass or bronze – ADE sizes 8 to 17, ¾" to 4" NPT, ISO 25 to 110; stainless steel – ADE sizes 4 to 17; ⅜" 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; ¾" to 4" NPT, ISO 25 to 110; stainless steel – ADE sizes 4 to 17; ⅜" to 4" NPT, ISO 16 to 110

UL certifications:

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

- ADE sizes 4 to 17, ½" 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 2[A], AEx e II, Ex e II

- ADE sizes 4 to 17, ½" 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. ГБ05.В.00858
- NEPSI GYJ13.1082X
- SABS MS/15-0314X

Shipping application:

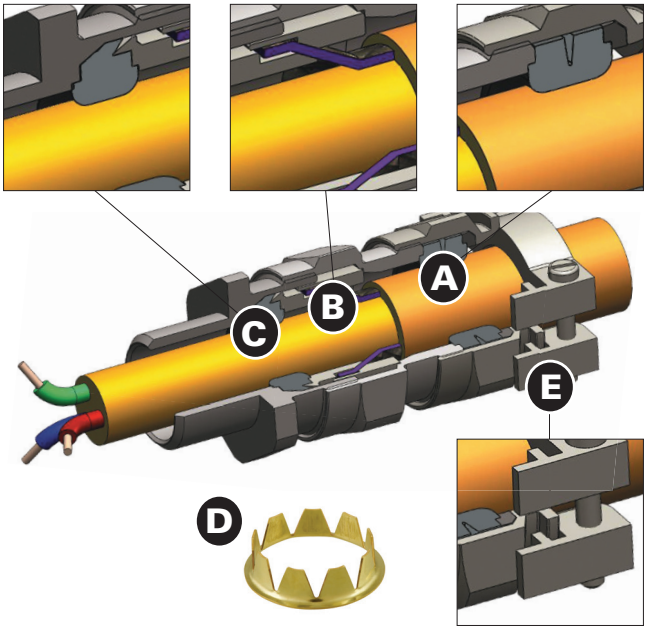
- ABS 14-HS1274083-PDA
- BV 40910/A0 BV
- DNV TAE000010X
- Lloyds 11/00072
- DTS-01:1991 compliant

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

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

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Ordering information:

Part number example

ADE4M253NPNK1

ADE4 M25 3 NPN K1

Hub size

NPT	Hub
N025	¼″
N038	⅜″
N050	½″
N075	¾″
N100	1″
N125	1¼″
N150	1½″
N200	2″
N250	2½″
N300	3″
N350	3½″
N400	4″

Metric	Hub
M12	12mm
M16	16mm
M20	20mm
M25	25mm
M32	32mm
M40	40mm
M50	50mm
M63	63mm
M75	75mm
M90	90mm
M110	110mm

Cable sealing range

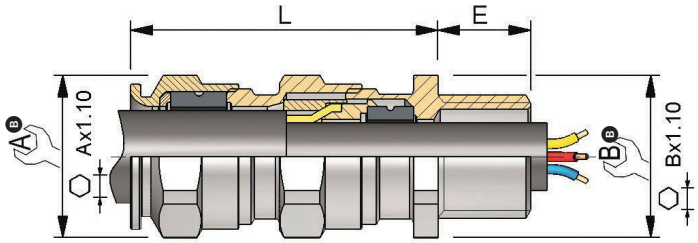
0	Extra small
1	Small
2	Medium
3	Large

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 Min.	Cable sealing range inner sheath Max.	Cable sealing range outer sheath Min.	Cable sealing range outer sheath Max.	Armor Min.	Armor Max.	A	B	Length (L)	E (NPT)	E (Metric)	Gland size
¼″ C	ADE4N0253NPN	M12 C	ADE4M123NPN	0.18 (4.5)	0.31 (8.0)	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″ C	ADE4N0381NPN	M16 C	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″ C	ADE4N0382NPN	M16 C	ADE4M162NPN	0.18 (4.5)	0.31 (8.0)	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)	0.65 (16.6)	0.59 (15.0)	5
⅜″ C	ADE4N0383NPN	M16 C	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)	0.31 (8.0)	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).

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

C Not UL certified.

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