ADE-5F 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
- 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 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 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-0483 to 0490
- NANIO TC-RU C-FR. ГБ05.В.00858
- NEPSI GYJ13.1082X

Shipping application:

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

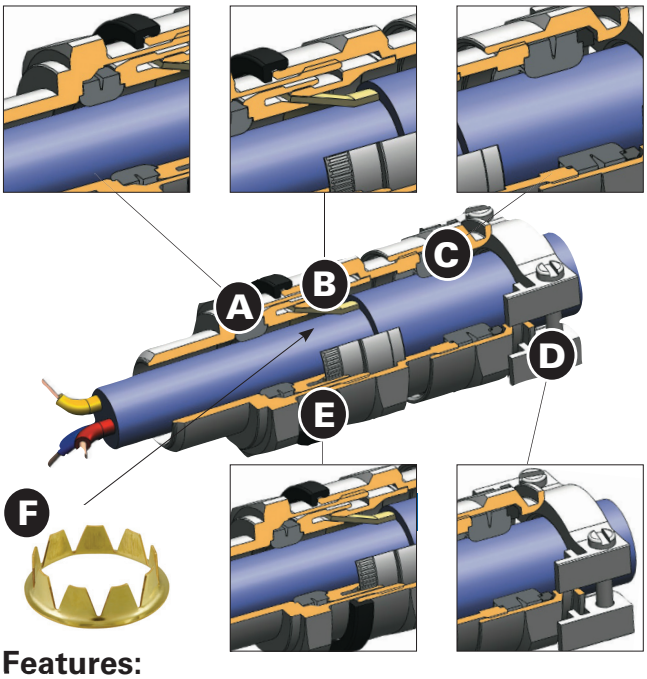
[A] Can be used in Division 2, provided that the enclosure contains no components that produce arcs or sparks.

With inspectable clamping for wire or braid

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

Operating temperature:

- -60°C to +140°C



Features:

(A) **Specifically formulated elastomer** – for flame path sealing on inner sheath of the cable

(B) **Anti-rotation feature** – provides simplified inspectability of armor clamping and grounding system

(C) **Specifically formulated elastomer** – used on the outer sheath of the cable to provide IP66 or IP68 moisture ingress protection

(D) **Optional external clamp** – provides additional external strain relief for rugged applications

(E) **Additional deluge seal** – available for ADE-5F gland sizes 12 through 17

(F) **Suitable for lead sheath cable with installation of simple washer (optional)**

Ordering information:

Part number example

ADE5M253NPNK1

ADE5 M25 3 NPN K1

Hub size

NPT	Hub	Metric	Hub
N025	¼″	M12	12mm
N038	3/8″	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
N400	4″	M110	110mm

Cable sealing range

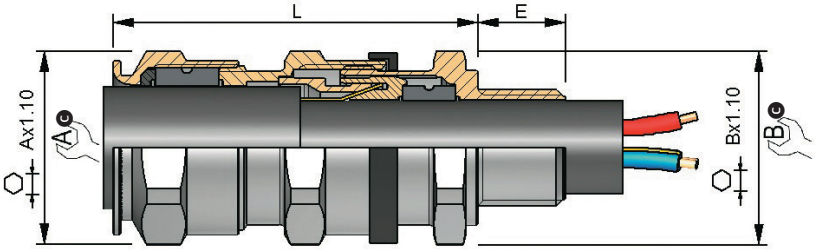
0	Extra small
1	Small
2	Medium
3	Large

Material

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

Accessory kits and options (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
DTS	Deluge ring[B]



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
1/4″[D]	ADE5N0253NPN	M12[D]	ADE5M123NPN	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)	2.17 (55.0)	–	0.59 (15.0)	5
3/8″[D]	ADE5N0382NPN	M16[D]	ADE5M162NPN	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)	2.17 (55.0)	0.65 (16.6)	0.59 (15.0)	5
3/8″[D]	ADE5N0383NPN	M16[D]	ADE5M163NPN	0.28 (7.0)	0.47 (12.0)	0.39 (10.0)	0.63 (16.0)	0.01 (0.2)	0.05 (1.2)	0.94 (24.0)	0.94 (24.0)	2.24 (57.0)	0.65 (16.6)	0.59 (15.0)	6
1/2″	ADE5N0501NPN	M20	ADE5M201NPN	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)	2.17 (55.0)	0.87 (22.2)	0.59 (15.0)	5
1/2″	ADE5N0502NPN	M20	ADE5M202NPN	0.28 (7.0)	0.47 (12.0)	0.39 (10.0)	0.63 (16.0)	0.01 (0.2)	0.05 (1.2)	0.94 (24.0)	0.94 (24.0)	2.24 (57.0)	0.87 (22.2)	0.59 (15.0)	6
1/2″	ADE5N0503NPN	M20	ADE5M203NPN	0.39 (10.0)	0.61 (15.5)	0.53 (13.5)	0.83 (21.0)	0.01 (0.2)	0.05 (1.2)	1.18 (30.0)	1.18 (30.0)	2.52 (64.0)	0.87 (22.2)	0.59 (15.0)	7
3/4″	ADE5N0751NPN	M25	ADE5M251NPN	0.28 (7.0)	0.47 (12.0)	0.39 (10.0)	0.63 (16.0)	0.01 (0.2)	0.05 (1.2)	0.94 (24.0)	1.18 (30.0)	2.24 (57.0)	0.89 (22.5)	0.59 (15.0)	6
3/4″	ADE5N0752NPN	M25	ADE5M252NPN	0.39 (10.0)	0.61 (15.5)	0.53 (13.5)	0.83 (21.0)	0.01 (0.2)	0.05 (1.2)	1.18 (30.0)	1.18 (30.0)	2.52 (64.0)	0.89 (22.5)	0.59 (15.0)	7
3/4″	ADE5N0753NPN	M25	ADE5M253NPN	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)	2.95 (75.0)	0.89 (22.5)	0.59 (15.0)	8
1″	ADE5N1002NPN	M32	ADE5M322NPN	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)	2.95 (75.0)	1.07 (27.3)	0.59 (15.0)	8
1″	ADE5N1003NPN	M32	ADE5M323NPN	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)	3.27 (83.0)	1.07 (27.3)	0.59 (15.0)	9
1 1/4″	ADE5N1252NPN	M40	ADE5M402NPN	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)	3.27 (83.0)	1.10 (28.0)	0.59 (15.0)	9
1 1/4″	ADE5N1253NPN	M40	ADE5M403NPN	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)	3.54 (90.0)	1.10 (28.0)	0.59 (15.0)	10
1 1/2″	ADE5N1502NPN	M50	ADE5M502NPN	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)	3.54 (90.0)	1.12 (28.5)	0.63 (16.0)	10
1 1/2″	ADE5N1503NPN	M50	ADE5M503NPN	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)	3.90 (99.0)	1.12 (28.5)	0.63 (16.0)	11
2″	ADE5N2002NPN	M63	ADE5M632NPN	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)	4.25 (108.0)	1.15 (29.2)	0.67 (17.0)	12
2″	ADE5N2003NPN	M63	ADE5M633NPN	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)	4.72 (120.0)	1.15 (29.2)	0.67 (17.0)	13
2 1/2″	ADE5N2502NPN	M75	ADE5M752NPN	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)	4.72 (120.0)	1.67 (42.5)	0.71 (18.0)	13
2 1/2″	ADE5N2503NPN	M75	ADE5M753NPN	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)	5.04 (128.0)	1.67 (42.5)	0.71 (18.0)	14
3″	ADE5N3001NPN	M90	ADE5M901NPN	2.28 (58.0)	2.91 (74.0)	2.60 (66.0)	3.27 (83.0)	0.01 (0.2)	0.12 (3.1)	4.33 (110.0)	4.33 (110.0)	5.91 (150.0)	1.73 (44.0)	0.87 (22.0)	15
3″	ADE5N3002NPN	M90	ADE5M902NPN	2.60 (66.0)	3.07 (78.0)	2.95 (75.0)	3.66 (93.0)	0.01 (0.2)	0.12 (3.1)	4.72 (120.0)	4.72 (120.0)	6.30 (160.0)	1.73 (44.0)	0.87 (22.0)	16
4″	ADE5N4003NPN	M110	ADE5M1103NPN	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)	6.77 (172.0)	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] To specify the deluge ring, add prefix 'DTS' before the kit option in catalog number (for example: ADE5N2003NPNDTSK1). Deluge rings are available for sizes 12 through 17 only.

[C] For across corners dimensions, multiply across flats dimensions by 1.1.

[D] Not UL certified.