






# ADE-5F 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
- 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, 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 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-0483 to 0490
- NANIO TC-RU C-FR. I605.B.00858
- NEPSI GYJ13.1082X

### Shipping application:

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

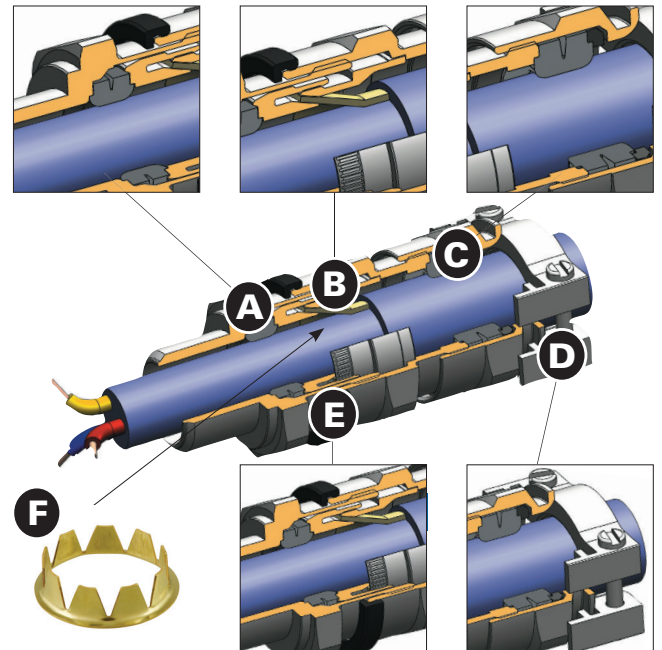


### With inspectable clamping for wire or braid

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)

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

## Ordering information:

Part number example  
**ADE5M253NPNK1**

# ADE5

# M25

# 3

# NPN

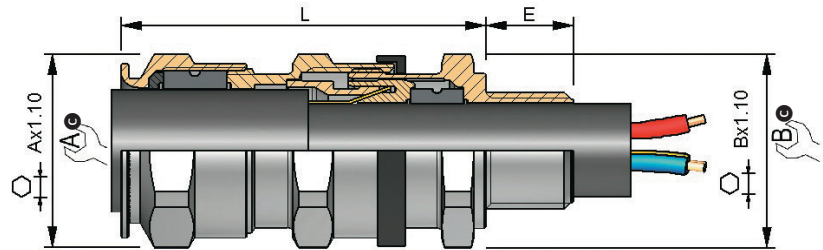
# K1

| Hub size |     | Metric Hub |       |
|----------|-----|------------|-------|
| 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  |
| 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 <sup>Ⓟ</sup>                                    |



| NPT thread size | Cat. # NPT   | Metric thread size | Cat. # Metric | Cable sealing range inner sheath |             | Cable sealing range outer sheath |              | Armor      |            | Length (L)   | E (NPT)      | E (Metric)   | Gland size  |             |    |
|-----------------|--------------|--------------------|---------------|----------------------------------|-------------|----------------------------------|--------------|------------|------------|--------------|--------------|--------------|-------------|-------------|----|
|                 |              |                    |               | Min.                             | Max.        | Min.                             | Max.         | Min.       | Max.       |              |              |              |             | A           | B  |
| ¼" <sup>Ⓟ</sup> | ADE5N0253NPN | M12 <sup>Ⓟ</sup>   | ADE5M123NPN   | 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)  | 2.17 (55.0)  | —           | 0.59 (15.0) | 5  |
| ⅜" <sup>Ⓟ</sup> | ADE5N0382NPN | M16 <sup>Ⓟ</sup>   | ADE5M162NPN   | 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)  | 2.17 (55.0)  | 0.65 (16.6) | 0.59 (15.0) | 5  |
| ½" <sup>Ⓟ</sup> | ADE5N0383NPN | M16 <sup>Ⓟ</sup>   | 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  |
| ½"              | ADE5N0501NPN | M20                | ADE5M201NPN   | 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)  | 2.17 (55.0)  | 0.87 (22.2) | 0.59 (15.0) | 5  |
| ½"              | 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  |
| ½"              | 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  |
| ¾"              | 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  |
| ¾"              | 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  |
| ¾"              | 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  |
| 1¼"             | 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  |
| 1¼"             | 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 |
| 1½"             | 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 |
| 1½"             | 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 |
| 2½"             | 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 |
| 2½"             | 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).

<sup>Ⓟ</sup>To specify the deluge ring, add prefix 'DTS' before the kit option in catalog number (for example: ADE5N2003NPNDTSTK1). Deluge rings are available for sizes 12 through 17 only.

<sup>Ⓞ</sup>For across corners dimensions, multiply across flats dimensions by 1.1.

<sup>Ⓟ</sup>Not UL certified.