

ADE-5F - for armoured cable

Technical specification



Suitable for the following cable types:

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

With inspectable clamping for wire or braid

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

Operating temperature:

-60°C to +140°C



Material:

Nickel-plated brass for superior corrosion resistance. 316L stainless steel, bronze and aluminum options available. It is recommended that a suitable lubricant is 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, see page 13.

Certifications and compliances:

ATEX certificate no: INERIS12ATEX0032X

Zones 1 and 2, Groups IIA, IIB and IIC
Zones 21 and 22, Groups IIIA, IIIB and 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 and 2, Groups IIA, IIB and IIC
Zones 21 and 22, Groups IIIA, IIIB and 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

Other certificates:

CEPEL 05.0559X

CCoE P360379-1

KOSHA 2015-BO-0483 to 0490

NANIO TC-RU C-FR.ГБ05.B.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

UL certification:

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

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

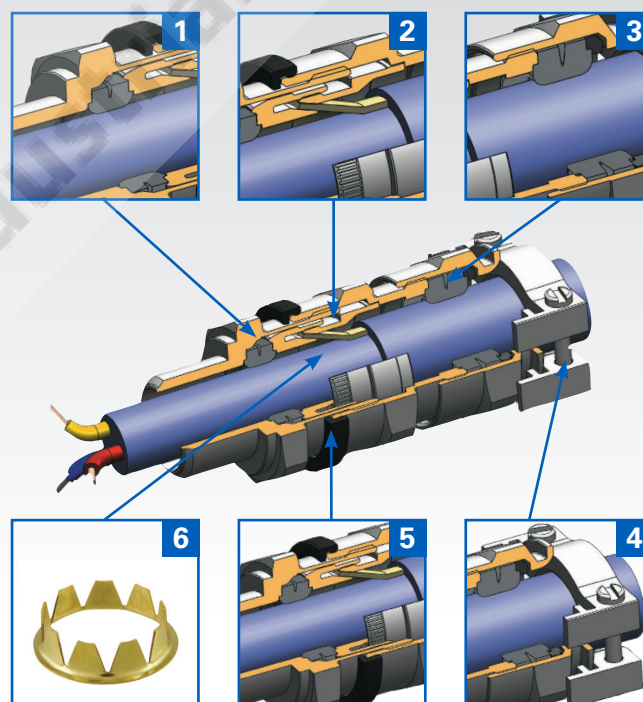
3LRC E314047 Class I Zone 2*, AEx e II, Ex e II

ADE sizes 4 to 17, NPT 1/2" to 4" or ISO 20 to 110 with armoured marine cable.

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



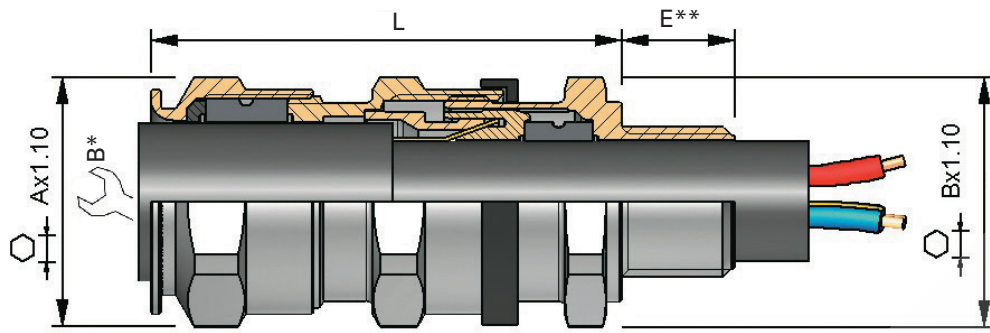
Features and benefits



- 1: Specifically formulated elastomer for flame path sealing on inner sheath of cable.
- 2: Anti-rotation feature providing simplified inspectability of armour clamping and grounding system.
- 3: Specifically formulated elastomer for IP sealing on outer sheath of cable.
- 4: Additional external cable clamping for strain relief (optional).
- 5: Additional deluge seal available for ADE-5F gland sizes No.12 to No.17.
- 6: Suitable for lead sheath cable with installation of simple washer (optional).

ADE-5F - order codes and dimensions

Dimensions



* For 'across corners' dimensions, multiply 'across flats' dimensions by 1.1

** For 'E' see thread dimension page 89

| SERIES | THREAD SIZE | CABLE SEALING RANGE | MATERIAL | OPTION |
|--------|-------------|---------------------|----------|--------|
| ADE5 | M25 | 3 | NPN | |

0 = XS
1 = S
2 = M
3 = L

SELECT

SELECT

SELECT

CODES

- K1 Accessories kit 1
- K2 Accessories kit 2
- K3 Accessories kit 3
- BLANK No option

KIT OPTIONS

- K1 Kit 1 contents:
 - Locknut
 - Green composite washer
- K2 Kit 2 contents:
 - Locknut
 - Green composite washer
 - Earth tag
 - Shroud
- K3 Kit 3 contents:
 - Locknut
 - Green composite washer
 - Earth tag
 - Serrated washer

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

When the "DTS" prefix is specified before the "K" of the kit option, a deluge ring will be included. The deluge rings are available for sizes 12-17 only. (Ex: ADE5N2003NPNDTSK1)

| SELECTION TABLE | | | | | | DIMENSIONS | | | | | ADE GLAND SIZE | CATALOG NUMBER ISO | CATALOG NUMBER NPT | |
|-----------------|-------------|------------------|-------------|------------------|---------------------|------------------------|------------------------|----------------|-----|-----|----------------|--------------------|--------------------|--------------|
| SERIES | THREAD SIZE | THREAD SIZE CODE | THREAD SIZE | THREAD SIZE CODE | CABLE SEALING RANGE | CABLE SEALING RANGE | | ARMOUR MIN-MAX | A | B | | | | L (LENGTH) |
| | | | | | | INNER SHEATH MIN - MAX | OUTER SHEATH MIN - MAX | | | | | | | |
| | | ISO | NPT | | | | | | | | | | | |
| ADE5 | 12* | M12 | 1/4"* | N025 | 3 | 4.5 - 8.0 | 7.0 - 12.0 | 0.2 - 0.9 | 19 | 19 | 55.0 | 5 | ADE5M123NPN | ADE5N0253NPN |
| ADE5 | 16* | M16 | 3/8"* | N038 | 2 | 4.5 - 8.0 | 7.0 - 12.0 | 0.2 - 0.9 | 19 | 19 | 55.0 | 5 | ADE5M162NPN | ADE5N0382NPN |
| ADE5 | 16* | M16 | 3/8"* | N038 | 3 | 7.0 - 12.0 | 10.0 - 16.0 | 0.2 - 1.2 | 24 | 24 | 57.0 | 6 | ADE5M163NPN | ADE5N0383NPN |
| ADE5 | 20 | M20 | 1/2" | N050 | 1 | 4.5 - 8.0 | 7.0 - 12.0 | 0.2 - 0.9 | 19 | 24 | 55.0 | 5 | ADE5M201NPN | ADE5N0501NPN |
| ADE5 | 20 | M20 | 1/2" | N050 | 2 | 7.0 - 12.0 | 10.0 - 16.0 | 0.2 - 1.2 | 24 | 24 | 57.0 | 6 | ADE5M202NPN | ADE5N0502NPN |
| ADE5 | 20 | M20 | 1/2" | N050 | 3 | 10.0 - 15.5 | 13.5 - 21.0 | 0.2 - 1.2 | 30 | 30 | 64.0 | 7 | ADE5M203NPN | ADE5N0503NPN |
| ADE5 | 25 | M25 | 3/4" | N075 | 1 | 7.0 - 12.0 | 10.0 - 16.0 | 0.2 - 1.2 | 24 | 30 | 57.0 | 6 | ADE5M251NPN | ADE5N0751NPN |
| ADE5 | 25 | M25 | 3/4" | N075 | 2 | 10.0 - 15.5 | 13.5 - 21.0 | 0.2 - 1.2 | 30 | 30 | 64.0 | 7 | ADE5M252NPN | ADE5N0752NPN |
| ADE5 | 25 | M25 | 3/4" | N075 | 3 | 13.5 - 20.5 | 18.0 - 27.5 | 0.2 - 1.6 | 41 | 41 | 75.0 | 8 | ADE5M253NPN | ADE5N0753NPN |
| ADE5 | 32 | M32 | 1" | N100 | 2 | 13.5 - 21.0 | 18.0 - 27.5 | 0.2 - 1.6 | 41 | 41 | 75.0 | 8 | ADE5M322NPN | ADE5N1002NPN |
| ADE5 | 32 | M32 | 1" | N100 | 3 | 18.0 - 26.0 | 23.0 - 34.0 | 0.2 - 1.6 | 48 | 48 | 83.0 | 9 | ADE5M323NPN | ADE5N1003NPN |
| ADE5 | 40 | M40 | 1 1/4" | N125 | 2 | 18.0 - 27.5 | 23.0 - 34.0 | 0.2 - 1.6 | 48 | 48 | 83.0 | 9 | ADE5M402NPN | ADE5N1252NPN |
| ADE5 | 40 | M40 | 1 1/4" | N125 | 3 | 23.0 - 34.0 | 29.0 - 41.0 | 0.2 - 2.0 | 55 | 55 | 90.0 | 10 | ADE5M403NPN | ADE5N1253NPN |
| ADE5 | 50 | M50 | 1 1/2" | N150 | 2 | 23.0 - 34.0 | 29.0 - 41.0 | 0.2 - 2.0 | 55 | 55 | 90.0 | 10 | ADE5M502NPN | ADE5N1502NPN |
| ADE5 | 50 | M50 | 1 1/2" | N150 | 3 | 29.0 - 41.0 | 35.0 - 48.0 | 0.2 - 2.5 | 64 | 64 | 99.0 | 11 | ADE5M503NPN | ADE5N1503NPN |
| ADE5 | 63 | M63 | 2" | N200 | 2 | 35.0 - 48.0 | 42.0 - 56.0 | 0.2 - 2.5 | 72 | 72 | 108.0 | 12 | ADE5M632NPN | ADE5N2002NPN |
| ADE5 | 63 | M63 | 2" | N200 | 3 | 42.0 - 53.0 | 50.0 - 65.0 | 0.2 - 2.5 | 85 | 85 | 120.0 | 13 | ADE5M633NPN | ADE5N2003NPN |
| ADE5 | 75 | M75 | 2 1/2" | N250 | 2 | 42.0 - 56.0 | 50.0 - 65.0 | 0.2 - 2.5 | 85 | 85 | 120.0 | 13 | ADE5M752NPN | ADE5N2502NPN |
| ADE5 | 75 | M75 | 2 1/2" | N250 | 3 | 50.0 - 62.5 | 58.0 - 74.0 | 0.2 - 2.5 | 95 | 95 | 128.0 | 14 | ADE5M753NPN | ADE5N2503NPN |
| ADE5 | 90 | M90 | 3" | N300 | 2 | 58.0 - 74.0 | 66.0 - 83.0 | 0.2 - 3.1 | 110 | 110 | 150.0 | 15 | ADE5M902NPN | ADE5N3002NPN |
| ADE5 | 90 | M90 | 3" | N300 | 3 | 66.0 - 78.0 | 75.0 - 93.0 | 0.2 - 3.1 | 120 | 120 | 160.0 | 16 | ADE5M903NPN | ADE5N3003NPN |
| ADE5 | 110 | M110 | 4" | N400 | 3 | 75.0 - 93.0 | 85.0 - 104.0 | 0.2 - 3.5 | 135 | 135 | 172.0 | 17 | ADE5M1103NPN | ADE5N4003NPN |

* Not UL certified. All dimensions in mm. Above catalog numbers are for nickel-plated brass; refer to order code diagram for other options. For Group I certification, see page 80.