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# 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 IMPROVED

**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

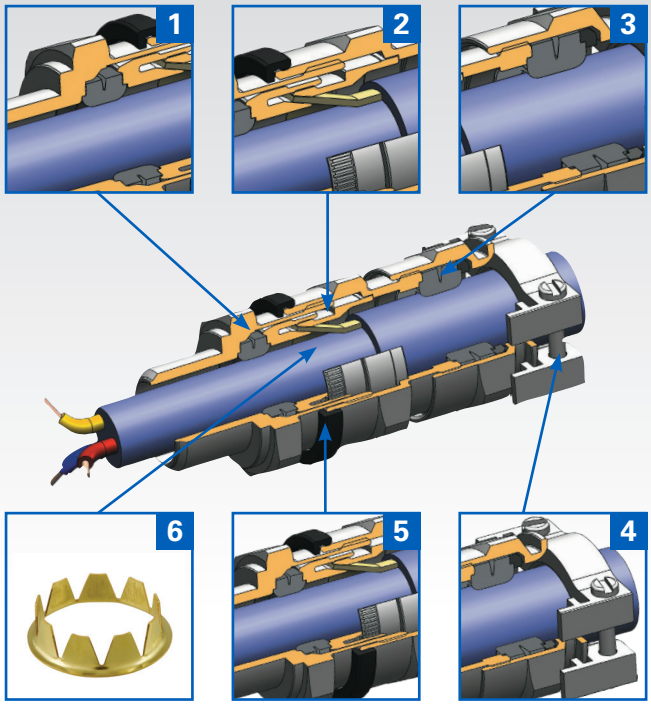
**UL certification:**

**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).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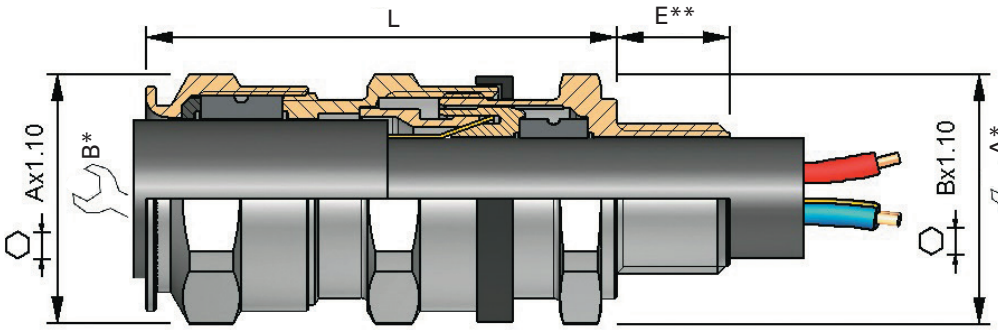
# ADE-5F - order codes and dimensions

## 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 | |

SELECT

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

SELECT

SELECT

**CODES**

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

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

**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

*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 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SERIES | THREAD SIZE (ISO) | THREAD SIZE CODE (ISO) | THREAD SIZE (NPT) | THREAD SIZE CODE (NPT) | CABLE SEALING RANGE | CABLE SEALING RANGE INNER SHEATH MIN - MAX | CABLE SEALING RANGE OUTER SHEATH MIN - MAX | ARMOUR MIN-MAX | A | B | L (LENGTH) | ADE GLAND SIZE | CATALOG NUMBER ISO | CATALOG NUMBER 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.



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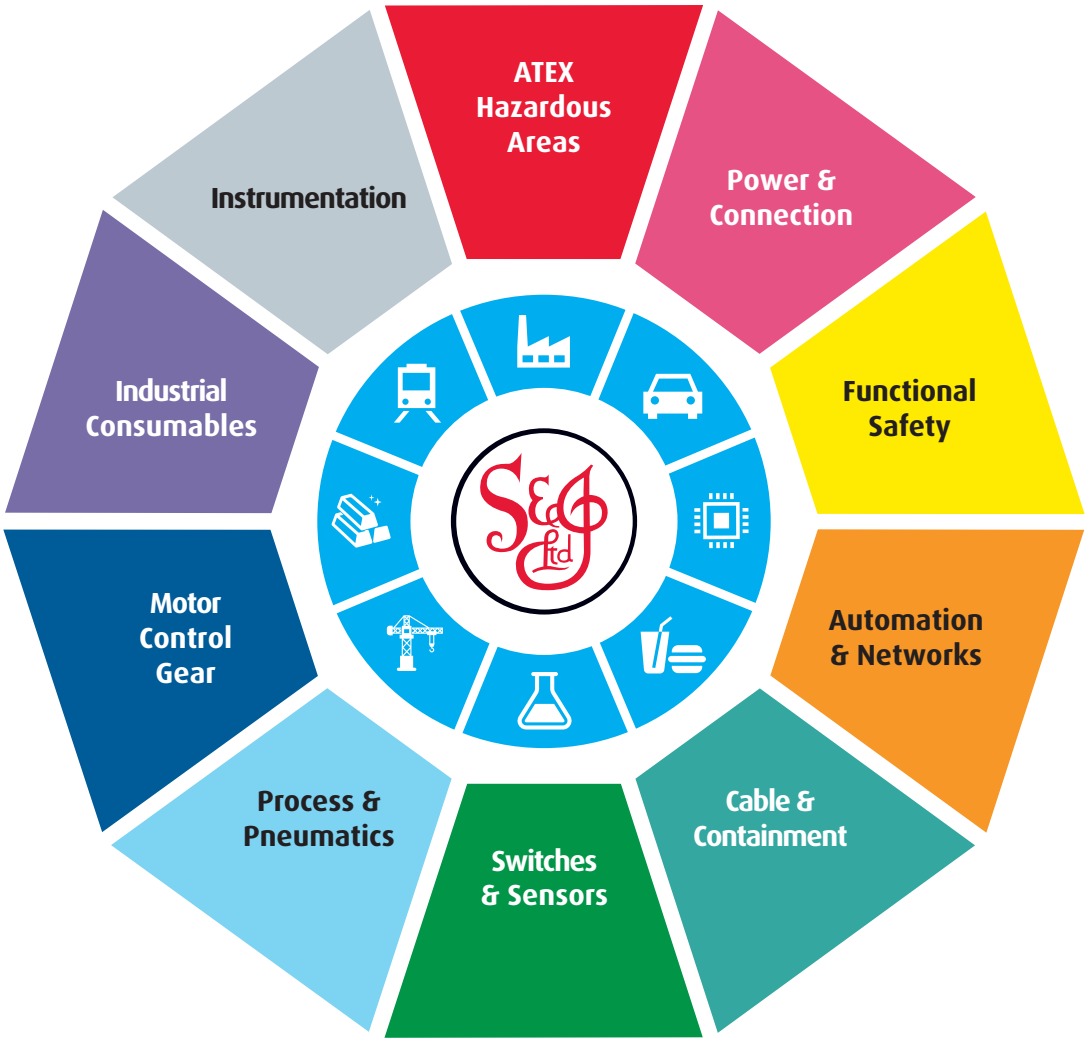


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