

# ADE-6FC - 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
- Tray cable

### With inspectable clamping for wire or braid

Sealing ring and TSC compound provides 100% of cable clamping.

### Operating temperature:

For all certificates, excluding UL E324850: -60°C to +80°C

For UL certificate UL E324850: -20°C to +40°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.

Equipped with 'deluge' seal.

### 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, stainless steel or bronze: ADE sizes 11 to 17; 2" to 4" NPT, ISO 50 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 IIC / Ex eb IIC / Ex nRc IIC / Ex tb IIIC

Ex db I / Ex eb I ; For mining applications

Brass, stainless steel or bronze: ADE sizes 11 to 17; 2" to 4" NPT, ISO 50 to 110

### Other certificates:

CEPEL 05.0559X

CCoE P360379-1

KOSHA 2015-BO-0491 to 0494

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 de II, Ex de II

ADE sizes 5 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 and TSC epoxy sealing compound.



#### 3DJN E310130 Class I Division 1, Groups A, B, C and D

ADE sizes 5 to 9, NPT 1/2" to 1 1/4" or ISO 20 to 40 with non-armoured cable types TC-ER-HL and TSC epoxy sealing compound.

ADE sizes 5 to 17, NPT 1/2" to 4" or ISO 20 to 110 with non-armoured cable types ITC-HL and TSC epoxy sealing compound.



#### 3DJN E310130 Class I Division 2, Groups A, B, C and D

ADE sizes 5 to 17, NPT 1/2" to 4" or ISO 20 to 110 with non-armoured cable types PLTC, PLTC-ER, ITC, ITC-ER, ITC-HL, TC, TC-ER, TC-ER-HL, MV and TSC epoxy sealing compound.

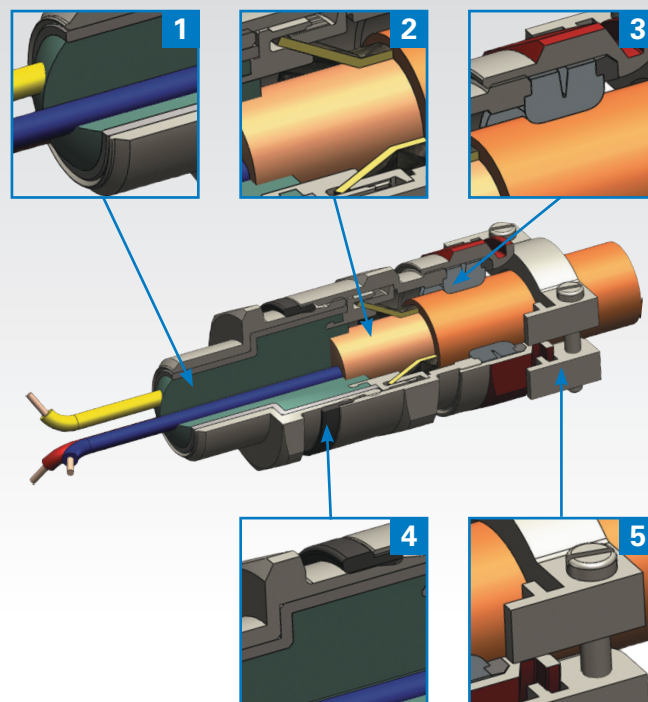


#### 4EC5 E324850 Class I Division 1, Groups A, B, C and D

ADE sizes 5 to 17, NPT 1/2" to 4" or ISO 20 to 110 with armoured marine cable and TSC epoxy sealing compound.



## Features and benefits

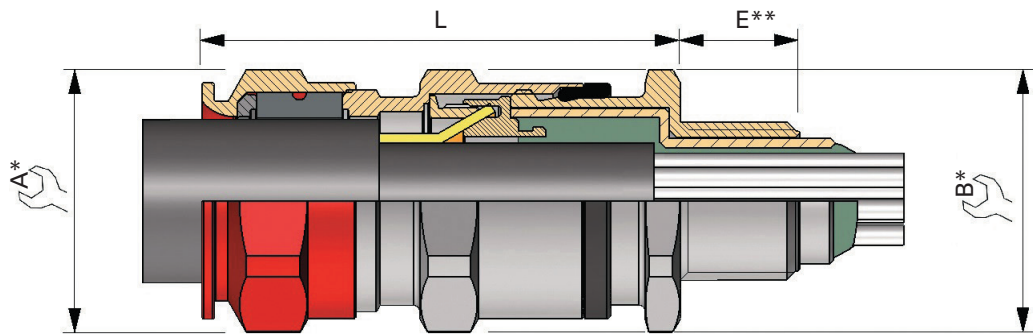


- 1: Sealing of cable conductors with compound barrier seal.
- 2: Universal clamping design for earthing and bonding of armour shield. Provides mechanical strength and is suitable for all armour shield types, with no requirement to reverse components that may introduce risk of incorrect installation. Fully inspectable.
- 3: Specifically formulated elastomer for IP sealing on outer sheath of cable.
- 4: Deluge performance to avoid water ingress through the thread.
- 5: Additional external cable clamping for strain relief (optional).

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

# ADE-6FC - 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 | BARRIER | OPTION | CODES |                     | KIT OPTIONS |                          |
|--------|-------------|---------------------|----------|---------|--------|-------|---------------------|-------------|--------------------------|
| ADE6C  | M25         | 3                   | NP       | SCN     |        | K1    | Accessories kit 1   | K1          | Kit 1 contents:          |
|        |             |                     |          |         |        | K2    | Accessories kit 2   |             | • Locknut                |
|        |             |                     |          |         |        | K3    | Accessories kit 3   |             | • Green composite washer |
|        |             |                     |          |         |        | BLANK | No option           |             | Kit 2 contents:          |
|        |             |                     |          |         |        |       |                     | K2          | • Locknut                |
|        |             |                     |          |         |        |       |                     |             | • Green composite washer |
|        |             |                     |          |         |        |       |                     |             | • Earth tag              |
|        |             |                     |          |         |        |       |                     |             | • Shroud                 |
|        |             |                     |          |         |        | SCN   | Solid compound      |             | Kit 3 contents:          |
|        |             |                     |          |         |        | NP    | Nickel-plated brass | K3          | • Locknut                |
|        |             |                     |          |         |        | SS    | Stainless steel     |             | • Green composite washer |
|        |             |                     |          |         |        | BZ    | Bronze              |             | • Earth tag              |
|        |             |                     |          |         |        |       |                     |             | • Serrated washer        |

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

| SELECTION TABLE |             |                  |                  |                  |                     | DIMENSIONS             |                       |                    |                 |                      |     |     |            | ADE GLAND SIZE | CATALOG NUMBER ISO | CATALOG NUMBER NPT |
|-----------------|-------------|------------------|------------------|------------------|---------------------|------------------------|-----------------------|--------------------|-----------------|----------------------|-----|-----|------------|----------------|--------------------|--------------------|
| SERIES          | THREAD SIZE | THREAD SIZE CODE | THREAD SIZE CODE | THREAD SIZE CODE | CABLE SEALING RANGE | OUTER SHEATH MIN - MAX | CONDUCTORS            |                    |                 | MAX ARMOUR THICKNESS | A   | B   | L (LENGTH) |                |                    |                    |
|                 | ISO         |                  | NPT              |                  |                     |                        | C = Ø MAX COVER CORES | Ø MAX INNER SHEATH | MAX No OF CORES |                      |     |     |            |                |                    |                    |
| ADE6C           | 16*         | M16              | 3/8**            | N038             | 3                   | 6.0 - 12.0             | 6.5                   | 8.0                | 6               | 0.9                  | 19  | 19  | 47.5       | 5              | ADE6CM163NPSCN     | ADE6CN0383NPSCN    |
| ADE6C           | 20          | M20              | 1/2"             | N050             | 1                   | 6.0 - 12.0             | 6.5                   | 8.0                | 6               | 0.9                  | 19  | 24  | 47.5       | 5              | ADE6CM201NPSCN     | ADE6CN0501NPSCN    |
| ADE6C           | 20          | M20              | 1/2"             | N050             | 2                   | 8.5 - 16.0             | 9.5                   | 12.0               | 6               | 1.2                  | 24  | 24  | 54.5       | 6              | ADE6CM202NPSCN     | ADE6CN0502NPSCN    |
| ADE6C           | 20          | M20              | 1/2"             | N050             | 3                   | 12.0 - 21.0            | 12.0                  | 16.0               | 10              | 1.2                  | 30  | 30  | 60.5       | 7              | ADE6CM203NPSCN     | ADE6CN0503NPSCN    |
| ADE6C           | 25          | M25              | 3/4"             | N075             | 2                   | 12.0 - 21.0            | 12.0                  | 16.0               | 10              | 1.2                  | 30  | 30  | 60.5       | 7              | ADE6CM252NPSCN     | ADE6CN0752NPSCN    |
| ADE6C           | 25          | M25              | 3/4"             | N075             | 3                   | 16.0 - 27.5            | 17.0                  | 21.0               | 21              | 1.6                  | 41  | 41  | 74.0       | 8              | ADE6CM253NPSCN     | ADE6CN0753NPSCN    |
| ADE6C           | 32          | M32              | 1"               | N100             | 2                   | 16.0 - 27.5            | 17.0                  | 21.0               | 21              | 1.6                  | 41  | 41  | 74.0       | 8              | ADE6CM322NPSCN     | ADE6CN1002NPSCN    |
| ADE6C           | 32          | M32              | 1"               | N100             | 3                   | 21.0 - 34.0            | 23.0                  | 27.5               | 42              | 1.6                  | 48  | 48  | 83.0       | 9              | ADE6CM323NPSCN     | ADE6CN1003NPSCN    |
| ADE6C           | 40          | M40              | 1 1/4"           | N125             | 2                   | 21.0 - 34.0            | 23.0                  | 27.5               | 42              | 1.6                  | 48  | 48  | 83.0       | 9              | ADE6CM402NPSCN     | ADE6CN1252NPSCN    |
| ADE6C           | 40          | M40              | 1 1/4"           | N125             | 3                   | 27.0 - 41.0            | 29.0                  | 34.0               | 60              | 2.0                  | 55  | 55  | 92.0       | 10             | ADE6CM403NPSCN     | ADE6CN1253NPSCN    |
| ADE6C           | 50          | M50              | 1 1/2"           | N150             | 2                   | 27.0 - 41.0            | 29.0                  | 34.0               | 60              | 2.0                  | 55  | 55  | 92.0       | 10             | ADE6CM502NPSCN     | ADE6CN1502NPSCN    |
| ADE6C           | 50          | M50              | 2"               | N200             | 1                   | 33.0 - 48.0            | 36.5                  | 41.0               | 80              | 2.5                  | 64  | 64  | 104.0      | 11             | ADE6CM501NPSCN     | ADE6CN2001NPSCN    |
| ADE6C           | 63          | M63              | 2"               | N200             | 2                   | 40.0 - 56.0            | 43.0                  | 48.0               | 100             | 2.5                  | 72  | 72  | 108.0      | 12             | ADE6CM632NPSCN     | ADE6CN2002NPSCN    |
| ADE6C           | 63          | M63              | 2"               | N200             | 3                   | 46.0 - 65.0            | 50.0                  | 56.0               | 100             | 2.5                  | 85  | 85  | 118.0      | 13             | ADE6CM633NPSCN     | ADE6CN2003NPSCN    |
| ADE6C           | 75          | M75              | 2 1/2"           | N250             | 2                   | 46.0 - 65.0            | 50.0                  | 56.0               | 100             | 2.5                  | 85  | 85  | 118.0      | 13             | ADE6CM752NPSCN     | ADE6CN2502NPSCN    |
| ADE6C           | 75          | M75              | 2 1/2"           | N250             | 3                   | 54.0 - 74.0            | 59.0                  | 65.0               | 120             | 2.5                  | 95  | 95  | 124.0      | 14             | ADE6CM753NPSCN     | ADE6CN2503NPSCN    |
| ADE6C           | -           | -                | 3"               | N300             | 1                   | 54.0 - 74.0            | 59.0                  | 65.0               | 120             | 2.5                  | 95  | 95  | 124.0      | 14             | -                  | ADE6CN3001NPSCN    |
| ADE6C           | 90          | M90              | 3"               | N300             | 2                   | 63.0 - 83.0            | 66.0                  | 73.0               | 140             | 3.1                  | 110 | 110 | 133.0      | 15             | ADE6CM902NPSCN     | ADE6CN3002NPSCN    |
| ADE6C           | -           | -                | 3 1/2"           | N350             | 2                   | 63.0 - 83.0            | 66.0                  | 73.0               | 140             | 3.1                  | 110 | 110 | 133.0      | 15             | -                  | ADE6CN3502NPSCN    |
| ADE6C           | 90          | M90              | 3"               | N300             | 3                   | 72.0 - 93.0            | 75.0                  | 82.0               | 140             | 3.1                  | 120 | 120 | 137.0      | 16             | ADE6CM903NPSCN     | ADE6CN3003NPSCN    |
| ADE6C           | -           | -                | 3 1/2"           | N350             | 3                   | 72.0 - 93.0            | 75.0                  | 82.0               | 140             | 3.1                  | 120 | 120 | 137.0      | 16             | -                  | ADE6CN3503NPSCN    |
| ADE6C           | 110         | M110             | 4"               | N400             | 3                   | 85.0 - 104.0           | 85.0                  | 92.0               | 200             | 3.5                  | 135 | 135 | 142.0      | 17             | ADE6CM1103NPSCN    | ADE6CN4003NPSCN    |

\* 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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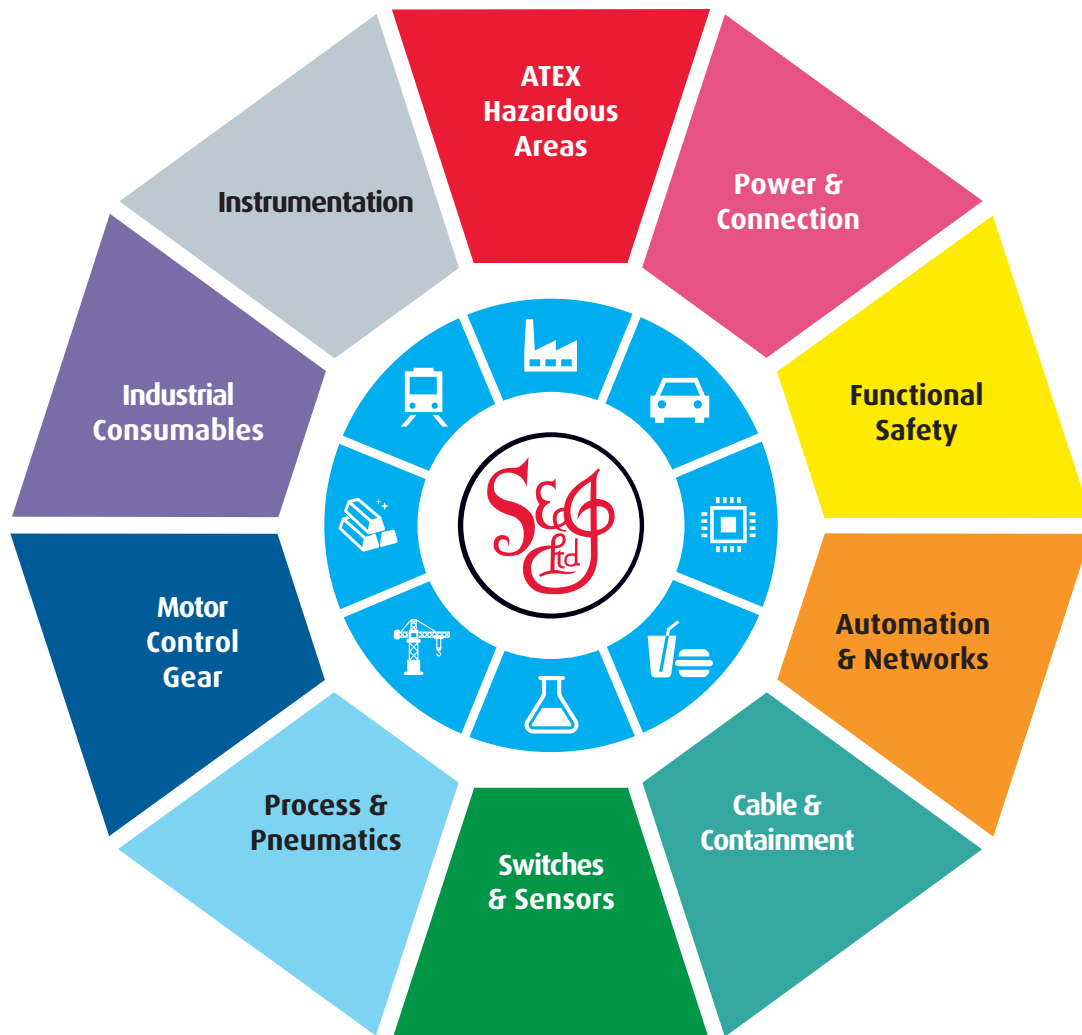
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