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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

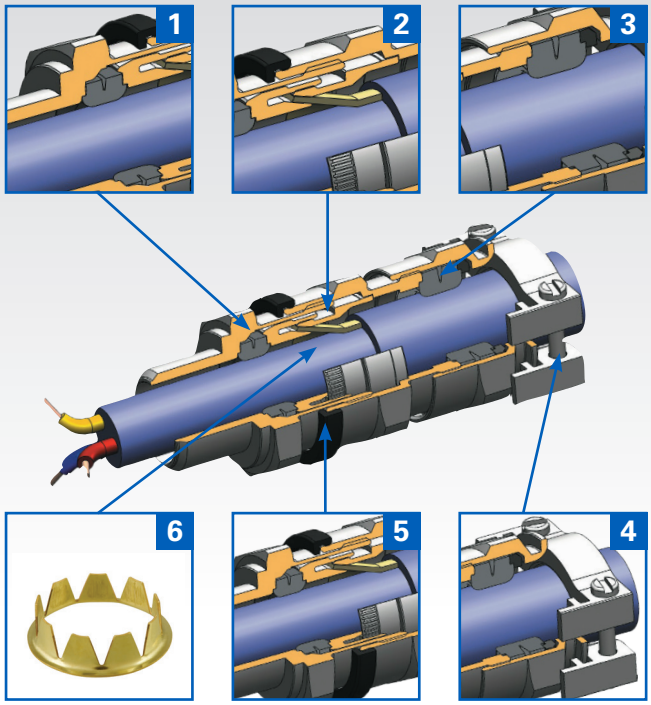
UL certification:

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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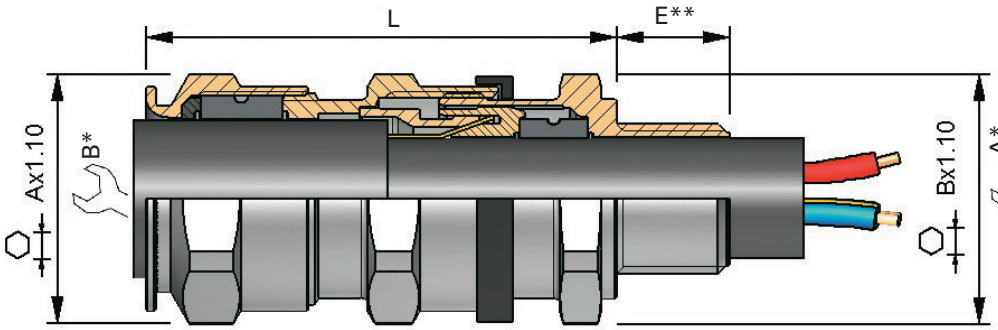
ADE-5F - order codes and dimensions

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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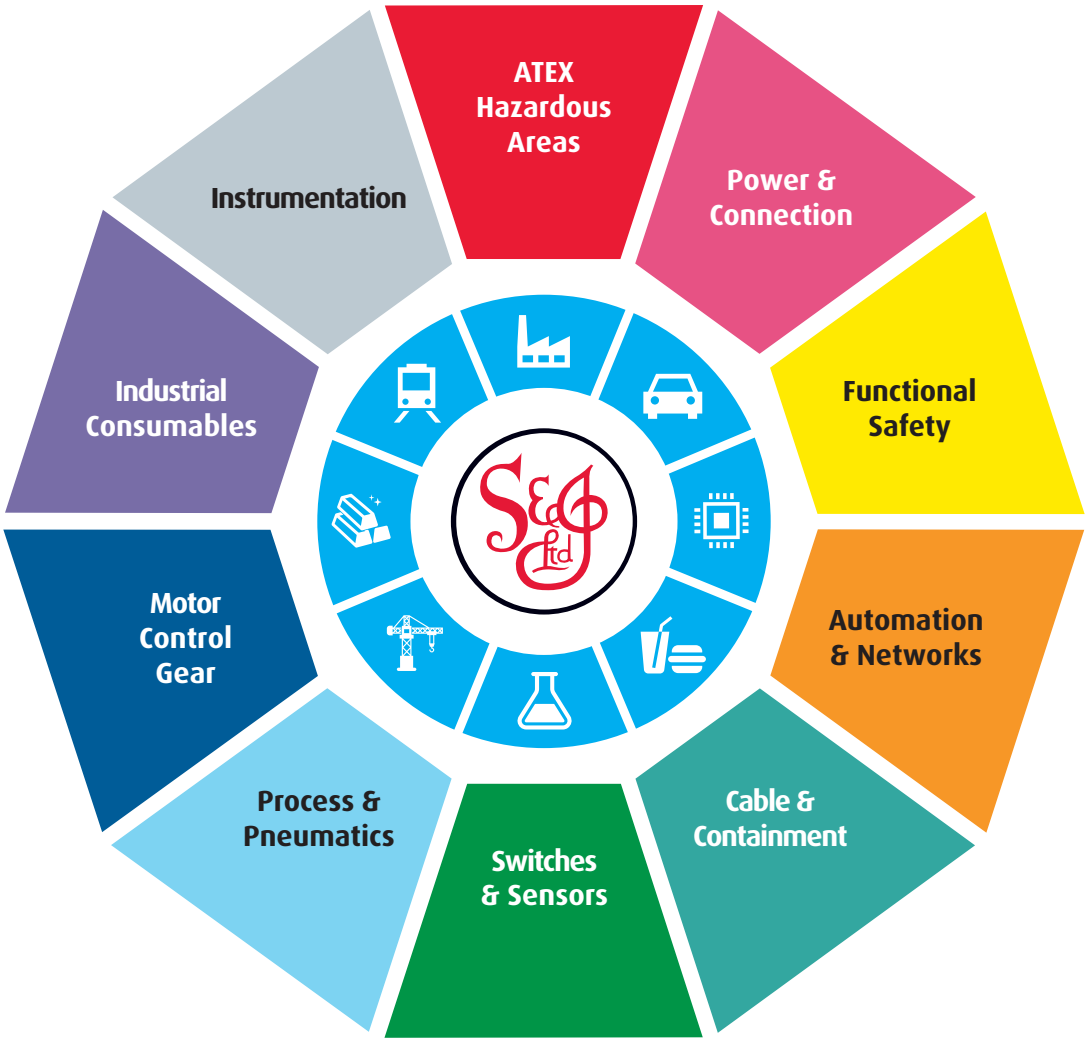

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