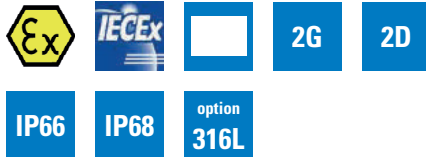


ADE-6FC - for armoured cable

Hazardous area cable glands



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

With inspectable clamping for wire or braid

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

Certifications and compliances

• ATEX No. INERIS 12ATEX0032X

Zones 1 and 2, Groups I, 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 size 11 to 17; NPT 2" to 4", ISO 50 to 110

• IECEx No. IECEx INE 12.0025X

Zones 1 and 2, Groups I, 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 size 11 to 17; NPT 2" to 4", ISO 50 to 110

• UL: 3DJN E310130 Class I Zone 2, AEx de II, Ex de II

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

• UL: 3DJN E310130 Class I Division 1, Groups A, B, C and D

ADE size 5 to 9, NPT 1/2" to 1 1/4" or ISO 20 to 40 with armoured cable TC-ER-HL and compound TSC

ADE size 5 to 17, NPT 1/2" to 4" or ISO 20 to 110 with armoured cable ITC-HL and compound TSC

• UL: 3DJN E310130 Class I Division 2, Groups A, B, C and D

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

• UL: 4EC5 E324850 Class I Division 1, Groups A, B, C and D

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

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

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 applications:

ABS 14-HS1274083-PDA

BV 40910/A0 BV

DNV TAE000010X

Lloyds 11/00072

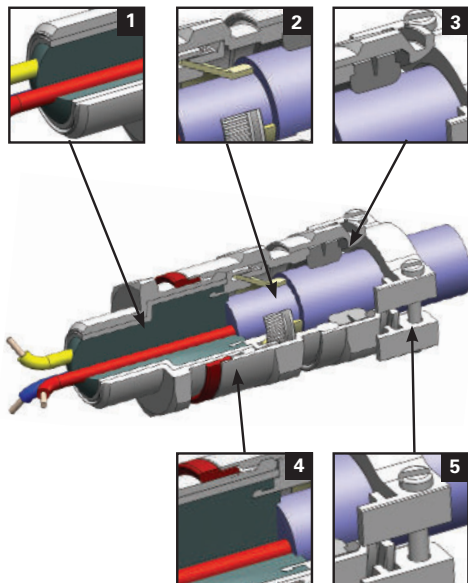
DTS-01:1991

Technical specification

- 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
- Temperature range:
-60 °C to +80 °C
- IP66 / IP68 according to the method of attachment and the condition of the equipment area, see page 2.5
- Equipped with 'deluge' seal

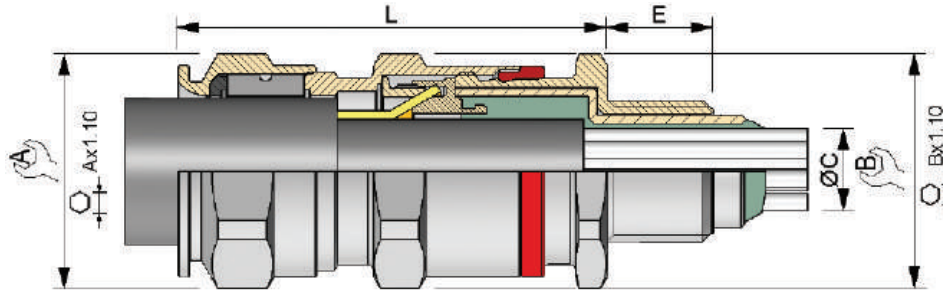
Features and benefits

- 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)



ADE-6FC - for armoured cable

Hazardous area cable glands



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

** For 'E' see thread dimension page 5.18

SERIES	THREAD SIZE	CABLE SEALING RANGE	MATERIAL	BARRIER	OPTION
ADE6C	M25	3	NP	SCN	

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

CODES	
K1	Accessories kit 1
K2	Accessories kit 2
K3	Accessories kit 3
BLANK	No option
SCN	Solid compound
NP	Nickel-plated brass
SS	Stainless steel
BZ	Bronze

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

Ordering codes

SERIES	THREAD SIZE (ISO)	THREAD SIZE CODE (ISO)	THREAD SIZE (NPT)	THREAD SIZE CODE (NPT)	CABLE SEALING RANGE	OUTER SHEATH MIN - MAX	CONDUCTORS										ADE GLAND SIZE	CATALOG NUMBER (ISO)	CATALOG NUMBER (NPT)
							C=ø	ø MAX	MAX	MAX	A	B	L						
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. Above catalog numbers are for nickel-plated brass; refer to order code diagram for other options.

All dimensions in mm.



ADE 6FC



ADE 6F



ADE 4F/5F



ADE 1F2

Technical data

Ex e cable glands metal ADE ...

Marking accd. to 2014/34/EU	Ex II 2 G Ex db eb IIC / Ex II 2 D Ex tb IIIC
EC-Type Examination Certificate	INERIS 12 ATEX 0032X
IECEX Certificate of Conformity	IECEX INE 12.0025X
Marking accd. to IECEx	Ex db eb IIC / Ex tb IIIC / Ex e II / Ex tD
Permissible ambient temperature	ADE 1/4/5...: -60 °C to +140 °C ADE 1/6 FC...: -60 °C to +80 °C
Degree of protection accd. to EN 60529	IP66 / IP68 - 10 bar
Thread	ISO-thread accd. ISO 965/1, ISO 965R and EN 60423
Enclosure material	Nickel-plated brass (CuZn gal. Ni), stainless steel, bronze, natural brass option

Ex-cable glands ADE 6FC



ADE 6FC ISO

Ordering details

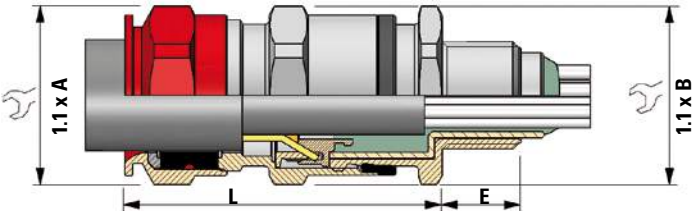
ISO	Type	Cable Ø outside mm	max. No of cores	C = max. Ø covers all cores mm	A mm	B mm	E mm	L mm	Order No. CuZn gal. Ni silicon	Order No. stainless steel silicon
Cable gland type ADE 6FC compound for armoured cable with ISO thread										
M16 x 1.5	5	6 - 12	6	6.5	19	19	15	46	CAP 969 594 V1	CAP 969 599 V1
M20 x 1.5	5	6 - 12	6	6.5	24	24	15	46	CAP 969 674 V1	CAP 969 679 V1
M20 x 1.5	6	8.5 - 16	6	9.5	24	24	15	53	CAP 969 694 V1	CAP 969 699 V1
M20 x 1.5	7	12 - 21	10	12	30	30	15	59	CAP 969 604 V1	CAP 969 609 V1
M25 x 1.5	7	12 - 21	10	12	30	30	15	59	CAP 969 794 V1	CAP 969 799 V1
M25 x 1.5	8	16 - 27.5	21	17	41	41	15	74.5	CAP 969 704 V1	CAP 969 709 V1
M32 x 1.5	8	16 - 27.5	21	17	41	41	15	74.5	CAP 969 894 V1	CAP 969 899 V1
M32 x 1.5	9	21 - 34	42	23	48	48	15	83.5	CAP 969 804 V1	CAP 969 809 V1
M40 x 1.5	9	21 - 34	42	23	48	48	15	83.5	CAP 969 994 V1	CAP 969 999 V1
M40 x 1.5	10	27 - 41	60	29	55	55	15	92	CAP 969 904 V1	CAP 969 909 V1
M50 x 1.5	10	27 - 41	60	29	55	55	16	92	CAP 970 094 V1	CAP 970 099 V1
M50 x 1.5	11	33 - 48	80	36.5	64	64	16	104	CAP 970 004 V1	CAP 970 009 V1

Please use sealing washers (see page 2.3.28).

For cable gland kits with washer and lock nut please add "K1" et the end of the order No.

Example: CAP 969 794 V1 K1 contains a ADE 6FC M25 x 1.5 type 7 + 1 x MsNi lock nut 1 x M25 + 1 x green fibre gasket for M25

Dimension drawing



Type ADE 6FC ISO

Dimensions in mm



ADE 6F NPT

Ordering details

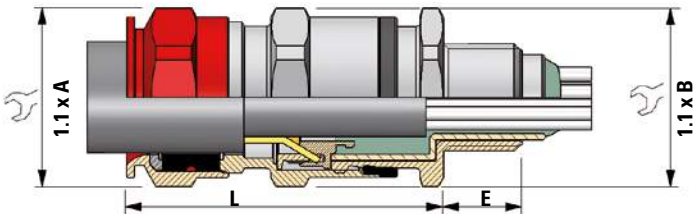
ISO	Type	Cable Ø outside mm	max. No of cores	C = max. Ø covers all cores mm	A mm	B mm	E mm	L mm	Order No. CuZn gal. Ni silicon	Order No. stainless steel silicon
Cable gland type ADE 6FC compound for armoured cable with NPT thread										
3/8" NPT	5	6 - 12	6	6.5	19	19	12	46	CAP 971 594 V1	CAP 971 599 V1
1/2" NPT	5	6 - 12	6	6.5	24	24	22.2	46	CAP 971 674 V1	CAP 971 679 V1
1/2" NPT	6	8.5 - 16	6	9.5	24	24	22.2	53	CAP 971 694 V1	CAP 971 699 V1
1/2" NPT	7	12 - 21	10	12	30	30	22.2	59	CAP 971 604 V1	CAP 971 609 V1
3/4" NPT	7	12 - 21	10	12	30	30	22.5	59	CAP 971 794 V1	CAP 971 799 V1
3/4" NPT	8	16 - 27.5	21	17	41	41	22.5	74.5	CAP 971 704 V1	CAP 971 709 V1
1" NPT	8	16 - 27.5	21	17	41	41	27.3	74.5	CAP 971 894 V1	CAP 971 899 V1
1" NPT	9	21 - 34	42	23	48	48	27.3	83.5	CAP 971 804 V1	CAP 971 809 V1
1 1/4" NPT	9	21 - 34	42	23	48	48	28	83.5	CAP 971 994 V1	CAP 971 999 V1
1 1/4" NPT	10	27 - 41	60	29	55	55	28	92	CAP 971 904 V1	CAP 971 909 V1
1 1/2" NPT	10	27 - 41	60	29	55	55	28.5	92	CAP 972 094 V1	CAP 972 099 V1
2" NPT	11	33 - 48	80	36.5	64	64	29.2	104	CAP 972 294 V1	CAP 972 299 V1

Please use sealing washers (see page 2.3.28).

For cable gland kits with washer and lock nut please add "K1" et the end of the order No.

Example: **CAP 971 994 V1 K1** contains a **ADE 6FC 1 1/4" NPT type 9** + **1 x MsNi lock nut** **1 x M25** + **1 x green fibre gasket** for **1 1/4" NPT**

Dimension drawing



Type ADE 6FC NPT

Dimensions in mm