

ADE-1FC - for non-armoured cable

Hazardous area cable glands



Suitable for the following cable types:

- Non-armoured cable
- Marine shipboard cable; Type P cable
- Tray cable: TC

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

Ex II2GD / Ex db IIC / Ex eb IIC / Ex tb IIIC

Ex II3G Ex nRc IIC

Ex IM2 / Ex db I / Ex eb I ; for mining applications

Brass, stainless steel or bronze size 11 to 16; NPT 2" to 4", ISO 63 to 110

• IECEx No. IECEx INE 12.0025X

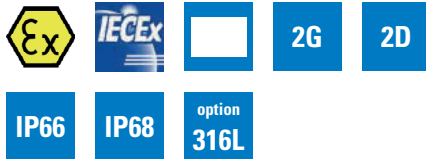
Zones 1 and 2, Groups I, IIA, IIB and IIC

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 16; NPT 2" to 4", ISO 63 to 110



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

ADE size 4 to 16, NPT 1/2" to 4" or ISO 20 to 110 with non-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 4 to 9, NPT 1/2" to 1 1/4" or ISO 20 to 40 with non-armoured cable TC-ER-HL and compound TSC. ADE size 4 to 16, NPT 1/2" to 4" or ISO 20 to 110 with non-armoured cable ITC-HL and compound TSC

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

ADE size 4 to 16, NPT 1/2" to 4" or ISO 20 to 110 with non-armoured cable ITC, ITC-ER, ITC-HL, MV, PLTC, PLTC-ER, TC-ER, TC-ER-HL, TC and compound TSC

• UL: 4EC5 E324850 Class I Division 2, Groups A, B, C and D

ADE size 4 to 16, NPT 1/2" to 4" or ISO 20 to 110 with non-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 05.0558X

CCoE P360379-1

KOSHA 2015-BO-0479 to 0482

NANIO TC-RU C-FR.ГБ05.В.00858

NEPSI GYJ13.1082X

SABS MS/15-0314X

Shipping applications:

ABS 14-HS1274083-PDA

BV 40910/A0 BV

DNV TAE000010X

Lloyds 11/00072

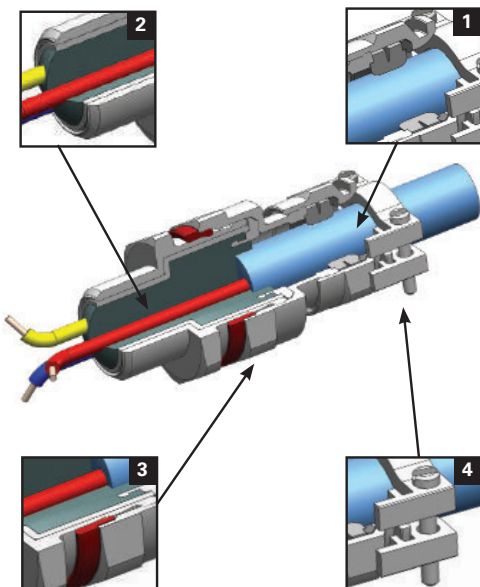
DTS-01:1991

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 a 'deluge' seal.

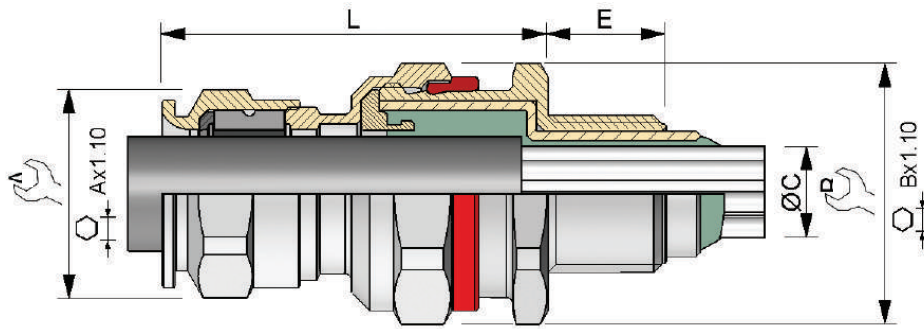
Features and benefits

- 1: Specifically formulated elastomer for IP sealing on outer sheath of cable
- 2: Sealing of cable conductors with compound barrier seal
- 3: Deluge seal provides enhanced ingress protection
- 4: Additional external cable clamping for strain relief (optional)



ADE-1FC - for non-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
ADE1C	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

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	CABLE SEALING RANGE MIN - MAX	C=Ø MAX OVER CORES	MAX No. OF CORES	A	B	L	ADE GLAND SIZE	CATALOG NUMBER (ISO)	CATALOG NUMBER (NPT)
ADE1C	16*	M16	3/8**	N038	3	4.0 - 8.0	6.5	6	15	19	36.0	4	ADE1CM163NPSCN	ADE1CN0383NPSCN
ADE1C	20	M20	1/2"	N050	1	4.0 - 8.0	6.5	6	15	24	36.0	4	ADE1CM201NPSCN	ADE1CN0501NPSCN
ADE1C	20	M20	1/2"	N050	2	6.0 - 12.0	9.5	6	19	24	42.0	5	ADE1CM202NPSCN	ADE1CN0502NPSCN
ADE1C	20	M20	1/2"	N050	3	8.5 - 16.0	12.0	10	24	30	48.5	6	ADE1CM203NPSCN	ADE1CN0503NPSCN
ADE1C	25	M25	3/4"	N075	2	8.5 - 16.0	12.0	10	24	30	48.5	6	ADE1CM252NPSCN	ADE1CN0752NPSCN
ADE1C	25	M25	3/4"	N075	3	12.0 - 21.0	17.0	21	30	41	58.0	7	ADE1CM253NPSCN	ADE1CN0753NPSCN
ADE1C	32	M32	1"	N100	2	12.0 - 21.0	17.0	21	30	41	58.0	7	ADE1CM322NPSCN	ADE1CN1002NPSCN
ADE1C	32	M32	1"	N100	3	16.0 - 27.5	23.0	42	41	48	70.0	8	ADE1CM323NPSCN	ADE1CN1003NPSCN
ADE1C	40	M40	1 1/4"	N125	2	16.0 - 27.5	23.0	42	41	48	70.0	8	ADE1CM402NPSCN	ADE1CN1252NPSCN
ADE1C	40	M40	1 1/4"	N125	3	21.0 - 34.0	29.0	60	48	55	79.0	9	ADE1CM403NPSCN	ADE1CN1253NPSCN
ADE1C	50	M50	1 1/2"	N150	2	21.0 - 34.0	29.0	60	48	55	79.0	9	ADE1CM502NPSCN	ADE1CN1502NPSCN
ADE1C	50	M50	2"	N200	1	27.0 - 41.0	36.5	80	55	64	88.0	10	ADE1CM501NPSCN	ADE1CN2001NPSCN
ADE1C	63	M63	2"	N200	2	33.0 - 48.0	43.0	100	64	72	98.0	11	ADE1CM632NPSCN	ADE1CN2002NPSCN
ADE1C	63	M63	2"	N200	3	40.0 - 56.0	50.0	100	72	85	103.0	12	ADE1CM633NPSCN	ADE1CN2003NPSCN
ADE1C	-	-	2 1/2"	N250	2	40.0 - 56.0	50.0	100	72	85	103.0	12	-	ADE1CN2502NPSCN
ADE1C	75	M75	2 1/2"	N250	3	46.0 - 65.0	59.0	120	85	95	111.0	13	ADE1CM753NPSCN	ADE1CN2503NPSCN
ADE1C	-	-	3"	N300	1	46.0 - 65.0	59.0	120	85	95	111.0	13	-	ADE1CN3001NPSCN
ADE1C	90	M90	3"	N300	2	54.0 - 74.0	66.0	140	95	110	120.0	14	ADE1CM902NPSCN	ADE1CN3002NPSCN
ADE1C	-	-	3 1/2"	N350	2	54.0 - 74.0	66.0	140	95	110	120.0	14	-	ADE1CN3502NPSCN
ADE1C	90	M90	3"	N300	3	63.0 - 83.0	75.0	140	110	120	125.0	15	ADE1CM903NPSCN	ADE1CN0383NPSCN
ADE1C	-	-	3 1/2"	N350	3	63.0 - 83.0	75.0	140	110	120	125.0	15	-	ADE1CN3503NPSCN
ADE1C	110	M110	4"	N400	3	72.0 - 93.0	85.0	200	120	135	128.0	16	ADE1CM1103NPSCN	ADE1CN4003NPSCN

* Not UL certified. Above catalog numbers are for nickel-plated brass; refer to order code diagram for other options..

All dimensions in mm.

ADE-1FC - for non-armoured cable

Technical specification



Suitable for the following cable types:

- Non-armoured cable
- Marine shipboard cable; Type P cable
- Tray cable

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 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 a '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 16; 2" to 4" NPT, ISO 63 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 16; 2" to 4" NPT, ISO 63 to 110

Other certificates:

CEPEL 05.0558X

CCoE P360379-1

KOSHA 2015-BO-0479 to 0482

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 4 to 16, NPT 1/2" to 4" or ISO 20 to 110 with non-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 4 to 9, NPT 1/2" to 1 1/4" or ISO 20 to 40 with non-armoured cable type TC-ER-HL and TSC epoxy sealing compound.

ADE sizes 4 to 16, NPT 1/2" to 4" or ISO 20 to 110 with non-armoured cable type ITC-HL and TSC epoxy sealing compound.



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

ADE sizes 4 to 16, 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.

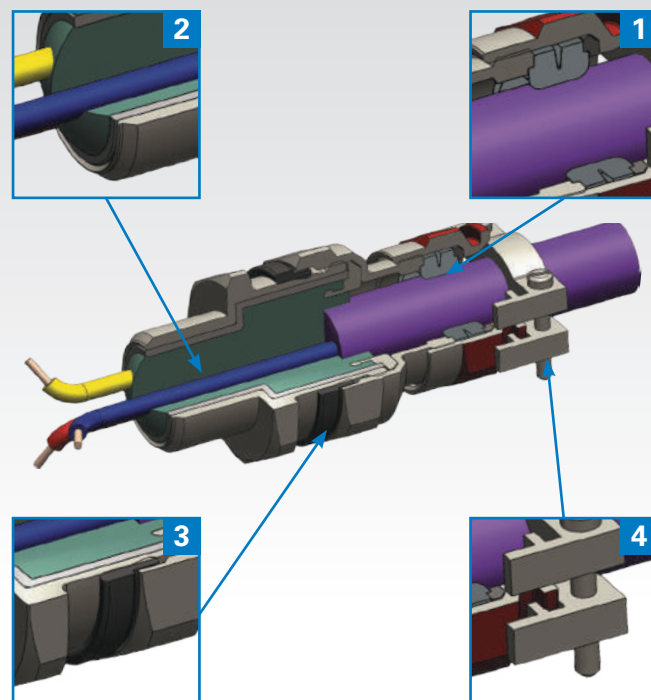


4EC5 E324850 Class I Division 2, Groups A, B, C and D

ADE sizes 4 to 16, NPT 1/2" to 4" or ISO 20 to 110 with non-armoured marine cable and TSC epoxy sealing compound.



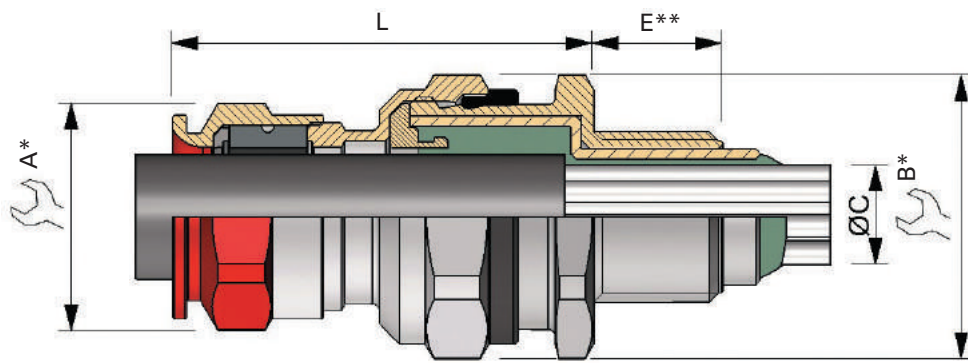
Features and benefits



- 1: Specifically formulated elastomer for IP sealing on outer sheath of cable.
- 2: Sealing of cable conductors with compound barrier seal.
- 3: Deluge seal provides enhanced ingress protection.
- 4: Additional external cable clamping for strain relief (optional).

ADE-1FC - 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
ADE1C	M25	3	NP	SCN	

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

SCN Solid compound
NP Nickel-plated brass
SS Stainless steel

KIT OPTIONS

K1 Kit 1 contents:
• Locknut
• Green composite washer
Kit 2 contents:
• Locknut
• Green composite washer
• Earth tag
• Shroud
Kit 3 contents:
• Locknut
• Green composite washer
• Earth tag
• Serrated washer

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 MIN - MAX	CORES		A	B	L (LENGTH)			
	ISO		NPT				C = Ø MAX OVER CORES	MAX NO. OF CORES						
ADE1C	16*	M16	3/8"	N038	3	4.0 - 8.5	6.5	6	15	19	36.0	4	ADE1CM163NPSCN	ADE1CN0383NPSCN
ADE1C	20	M20	1/2"	N050	1	4.0 - 8.5	6.5	6	15	24	36.0	4	ADE1CM201NPSCN	ADE1CN0501NPSCN
ADE1C	20	M20	1/2"	N050	2	6.0 - 12.0	9.5	6	19	24	42.0	5	ADE1CM202NPSCN	ADE1CN0502NPSCN
ADE1C	20	M20	1/2"	N050	3	8.5 - 16.0	12.0	10	24	30	48.0	6	ADE1CM203NPSCN	ADE1CN0503NPSCN
ADE1C	25	M25	3/4"	N075	2	8.5 - 16.0	12.0	10	24	30	48.0	6	ADE1CM252NPSCN	ADE1CN0752NPSCN
ADE1C	25	M25	3/4"	N075	3	12.0 - 21.0	17.0	21	30	41	58.0	7	ADE1CM253NPSCN	ADE1CN0753NPSCN
ADE1C	32	M32	1"	N100	2	12.0 - 21.0	17.0	21	30	41	58.0	7	ADE1CM322NPSCN	ADE1CN1002NPSCN
ADE1C	32	M32	1"	N100	3	16.0 - 27.5	23.0	42	41	48	70.0	8	ADE1CM323NPSCN	ADE1CN1003NPSCN
ADE1C	40	M40	1 1/4"	N125	2	16.0 - 27.5	23.0	42	41	48	70.0	8	ADE1CM402NPSCN	ADE1CN1252NPSCN
ADE1C	40	M40	1 1/4"	N125	3	21.0 - 34.0	29.0	60	48	55	79.0	9	ADE1CM403NPSCN	ADE1CN1253NPSCN
ADE1C	50	M50	1 1/2"	N150	2	21.0 - 34.0	29.0	60	48	55	79.0	9	ADE1CM502NPSCN	ADE1CN1502NPSCN
ADE1C	50	M50	2"	N200	1	27.0 - 41.0	36.5	80	55	64	88.0	10	ADE1CM501NPSCN	ADE1CN2001NPSCN
ADE1C	63	M63	2"	N200	2	33.0 - 48.0	43.0	100	64	72	98.0	11	ADE1CM632NPSCN	ADE1CN2002NPSCN
ADE1C	63	M63	2"	N200	3	40.0 - 56.0	50.0	100	72	85	103.0	12	ADE1CM633NPSCN	ADE1CN2003NPSCN
ADE1C	-	-	2 1/2"	N250	2	40.0 - 56.0	50.0	100	72	85	103.0	12	-	ADE1CN2502NPSCN
ADE1C	75	M75	2 1/2"	N250	3	46.0 - 65.0	59.0	120	85	95	111.0	13	ADE1CM753NPSCN	ADE1CN2503NPSCN
ADE1C	-	-	3"	N300	1	46.0 - 65.0	59.0	120	85	95	111.0	13	-	ADE1CN3001NPSCN
ADE1C	90	M90	3"	N300	2	54.0 - 74.0	66.0	140	95	110	120.0	14	ADE1CM902NPSCN	ADE1CN3002NPSCN
ADE1C	-	-	3 1/2"	N350	2	54.0 - 74.0	66.0	140	95	110	120.0	14	-	ADE1CN3502NPSCN
ADE1C	90	M90	3"	N300	3	63.0 - 83.0	75.0	140	110	120	125.0	15	ADE1CM903NPSCN	ADE1CN3003NPSCN
ADE1C	-	-	3 1/2"	N350	3	63.0 - 83.0	75.0	140	110	120	125.0	15	-	ADE1CN3503NPSCN
ADE1C	110	M110	4"	N400	3	72.0 - 93.0	85.0	200	120	135	128.0	16	ADE1CM1103NPSCN	ADE1CN4003NPSCN

* 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

Ex-cable glands ADE 1FC



ADE 1F2 ISO

Ordering details

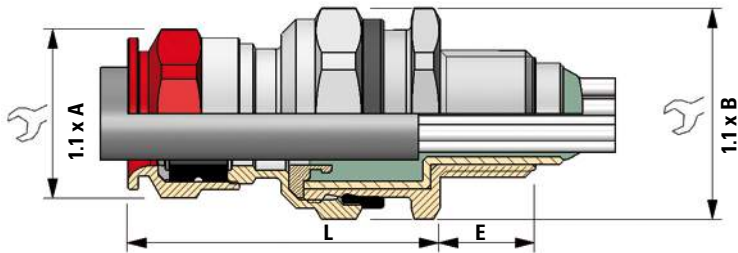
ISO	Type	Cable Ø outside mm	max. No of cores	C = max. Ø covers all cores mm	A mm	B mm	E mm	L mm	Order No. CuZn gal. Ni	Order No. stainless steel
Cable gland type ADE 1FC compound for unarmoured cable with ISO thread										
M16 x 1.5	4	4.0 - 8.5	6	6.5	15	19	15	36	CAP 019 594 V1	CAP 019 599 V1
M20 x 1.5	4	4.0 - 8.5	6	6.5	15	24	15	36	CAP 019 674 V1	CAP 019 679 V1
M20 x 1.5	5	6.0 - 12.0	6	9.5	19	24	15	42	CAP 019 694 V1	CAP 019 699 V1
M20 x 1.5	6	8.5 - 16.0	10	12	24	30	15	48	CAP 019 604 V1	CAP 019 609 V1
M25 x 1.5	6	12.0 - 21.0	21	17	24	30	15	48	CAP 019 704 V1	CAP 019 709 V1
M25 x 1.5	7	8.5 - 16.0	10	12	30	41	15	58	CAP 019 794 V1	CAP 019 799 V1
M32 x 1.5	7	16.0 - 27.5	42	23	30	41	15	58	CAP 019 804 V1	CAP 019 809 V1
M32 x 1.5	8	12.0 - 21.0	21	17	41	48	15	70	CAP 019 894 V1	CAP 019 899 V1
M40 x 1.5	8	21.0 - 34.0	60	29	41	48	15	70	CAP 019 904 V1	CAP 019 909 V1
M50 x 1.5	9	21.0 - 34.0	60	29	48	55	16	79	CAP 019 094 V1	CAP 019 099 V1
M40 x 1.5	9	16.0 - 27.5	42	23	48	55	15	79	CAP 019 994 V1	CAP 019 999 V1
M50 x 1.5	10	27.0 - 41.0	80	36.5	55	64	16	88	CAP 019 004 V1	CAP 019 009 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 019 604 V1 K1 contains a ADE 1FC M20 x 1.5 type 6 + 1 x MsNi lock nut M20 + 1 x green fibre gasket for M20

Dimension drawing



Type ADE 1FC



ADE 1F2 NPT

3

Ordering details

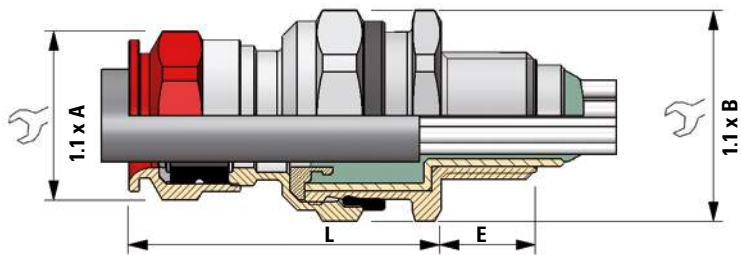
NPT	Type	Cable Ø outside mm	max. No of cores	C = max. Ø covers all cores mm	A mm	B mm	E mm	L mm	Order No. CuZn gal. Ni	Order No. stainless steel
Cable gland type ADE 1FC compound for unarmoured cable with NPT thread										
3/8" NPT	4	4.0 - 8.5	6	6.5	15	19	12	36	CAP 011 594 V1	CAP 011 599 V1
1/2" NPT	4	4.0 - 8.5	6	6.5	15	24	22.2	36	CAP 011 674 V1	CAP 011 679 V1
1/2" NPT	5	6.0 - 12.0	6	9.5	19	24	22.2	42	CAP 011 694 V1	CAP 011 699 V1
1/2" NPT	6	8.5 - 16.0	10	12	24	30	22.2	48	CAP 011 604 V1	CAP 011 609 V1
3/4" NPT	6	8.5 - 16.0	10	12	24	30	22.2	48	CAP 011 794 V1	CAP 011 799 V1
3/4" NPT	7	12.0 - 21.0	21	17	30	41	22.2	58	CAP 011 704 V1	CAP 011 709 V1
1" NPT	7	12.0 - 21.0	21	17	30	41	27.3	58	CAP 011 894 V1	CAP 011 899 V1
1" NPT	8	16.0 - 27.5	42	23	41	48	27.3	70	CAP 011 804 V1	CAP 011 809 V1
1 1/4" NPT	8	16.0 - 27.5	42	23	41	48	28	70	CAP 011 994 V1	CAP 011 999 V1
1 1/2" NPT	9	21.0 - 34.0	60	29	48	55	28.5	79	CAP 011 094 V1	CAP 011 099 V1
1 1/4" NPT	9	21.0 - 34.0	60	29	48	55	28	79	CAP 011 904 V1	CAP 011 909 V1
2" NPT	10	27.0 - 41.0	80	36.5	55	64	29.2	88	CAP 011 004 V1	CAP 011 009 V1

Please use sealing washers (see page 2.3.28).

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

Example: CAP 011 604 V1 K1 contains a ADE 1FC 1/2" NPT type 6 + 1 x MsNi lock nut 1/2" NPT + 1 x green fibre gasket for 1/2" NPT

Dimension drawing



Type ADE 1FC