

ADE-1F2 - 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

Provides 25% of cable clamping. As per IEC60079 § A.2.3.2 for group II or III cable glands, "without a clamping device, additional clamping of the cable is needed to ensure that pulling & twisting is not transmitted to the terminations". We recommend using the certified ADE clamping module (page 2.29).

Certifications and compliances

• ATEX No. INERIS 12ATEX0032X

Zones 1 and 2, Groups 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

• IECEx 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

• UL: 3DJN E310130 Class I Zone 1*, AEx e II

ADE size 3 to 8, NPT 1/2" to 1 1/4" or ISO 20 to 40 with non-armoured cable TC-ER-HL up to 1" diameter

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

ADE size 3 to 17, NPT 1/2" to 4" or ISO 20 to 110 with non-armoured cable ITC, MV, PLTC, TC-ER, TC-ER-HL, TC

• UL: 3LRC E314047 Class I Zone 2*, AEx e II, Ex e II

ADE size 3 to 17, NPT 1/2" to 4" or ISO 20 to 110 with non-armoured marine cable

* 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-0249 to 0256

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

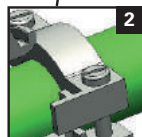
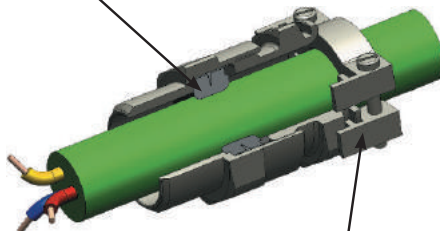
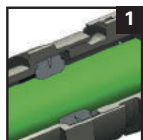
DTS-01:1991

Technical specification

- Nickel-plated brass for superior corrosion resistance. 316L stainless steel, bronze and aluminium options available. It is recommended that a suitable lubricant is used on all threads of stainless steel and aluminium versions.
- Temperature range: -60 °C to +140 °C
- IP66 / IP68 according to the method of attachment and the condition of the equipment area, see page 2.5

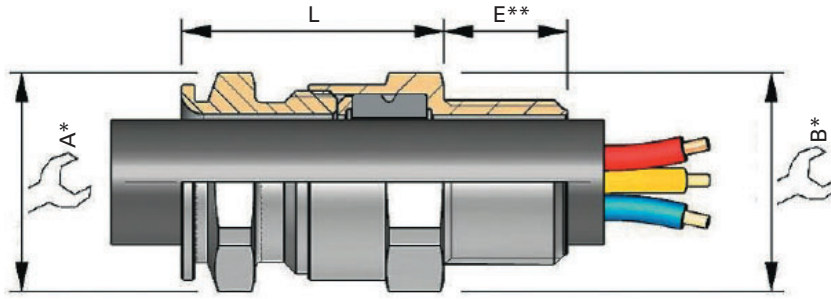
Features and benefits

- 1: Specifically formulated elastomer for IP sealing on outer sheath of cable
- 2: Additional external cable clamping for strain relief (optional).



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* 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	OPTION
ADE1	M25	3	NPN	

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	Aluminium (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

Ordering codes

SERIES	THREAD SIZE (ISO)	THREAD SIZE CODE (ISO)	THREAD SIZE (NPT)	THREAD SIZE CODE (NPT)	CABLE SEALING RANGE	CABLE SEALING RANGE ISO (NPT) OUTER SHEATH MIN - MAX	A	B	L	ADE GLAND SIZE	CATALOG NUMBER (ISO)	CATALOG NUMBER (NPT)
ADE1	12*	M12	1/4**	N025	3	4.5 - 8.0	17	17	25.0	4	ADE1M123NPN	ADE1N0253NPN
ADE1	16*	M16	3/8**	N038	2	4.5 - 8.5	17	19	25.0	4	ADE1M162NPN	ADE1N0382NPN
ADE1	16*	M16	3/8**	N038	3	7.0 - 12.0	19	19	27.5	5	ADE1M163NPN	ADE1N0383NPN
ADE1	20	M20	1/2"	N050	0	2.8 - 5.5	15	24	24.0	3	ADE1M200NPN	ADE1N0500NPN
ADE1	20	M20	1/2"	N050	1	4.5 - 8.5	17	24	25.0	4	ADE1M201NPN	ADE1N0501NPN
ADE1	20	M20	1/2"	N050	2	7.0 - 12.0	19	24	27.5	5	ADE1M202NPN	ADE1N0502NPN
ADE1	20	M20	1/2"	N050	3	10.0 - 16.0 (15.5)	24	24	32.0	6	ADE1M203NPN	ADE1N0503NPN
ADE1	25	M25	3/4"	N075	1	7.0 - 12.0	19	30	27.5	5	ADE1M251NPN	ADE1N0751NPN
ADE1	25	M25	3/4"	N075	2	10.0 - 16.0	24	30	32.0	6	ADE1M252NPN	ADE1N0752NPN
ADE1	25	M25	3/4"	N075	3	13.5 - 20.5	30	30	36.5	7	ADE1M253NPN	ADE1N0753NPN
ADE1	32	M32	1"	N100	2	13.5 - 21.0	30	36	36.5	7	ADE1M322NPN	ADE1N1002NPN
ADE1	32	M32	1"	N100	3	18.0 - 27.5 (26.0)	41	41	46.0	8	ADE1M323NPN	ADE1N1003NPN
ADE1	40	M40	1 1/4"	N125	2	18.0 - 27.5 (26.0)	48	48	50.0	8	ADE1M402NPN	ADE1N1252NPN
ADE1	40	M40	1 1/4"	N125	3	23.0 - 34.0	48	48	50.0	9	ADE1M403NPN	ADE1N1253NPN
ADE1	50	M50	1 1/2"	N150	0	23.0 - 34.0	48	55	49.7	9	ADE1M500NPN	ADE1N1500NPN
ADE1	50	M50	1 1/2"	N150	1	29.0 - 41.0	55	55	52.0	10	ADE1M501NPN	ADE1N1501NPN
ADE1	50	M50	2"	N200	2	35.0 - 45.0 (48.0)	64	64	56.5	11	ADE1M502NPN	ADE1N2002NPN
ADE1	63	M63	-	-	2	35.0 - 48.0	64	67	56.5	11	ADE1M632NPN	-
ADE1	63	M63	2"	N200	3	42.0 - 56.0 (53.0)	72	72	60.0	12	ADE1M633NPN	ADE1N2003NPN
ADE1	75	M75	2 1/2"	N250	3	50.0 - 65.0 (62.5)	85	85	67.5	13	ADE1M753NPN	ADE1N2503NPN
ADE1	90	M90	3"	N300	2	58.0 - 74.0	95	95	69.0	14	ADE1M902NPN	ADE1N3002NPN
ADE1	90	M90	3"	N300	3	66.0 - 83.0 (78.0)	110	110	80.0	15	ADE1M903NPN	ADE1N3003NPN
ADE1	110	M110	3 1/2"	N350	2	75.0 - 93.0 (92.0)	120	120	80.0	16	ADE1M1102NPN	ADE1N3502NPN
ADE1	110	M110	4"	N400	3	85.0 - 104.0	135	135	90.0	17	ADE1M1103NPN	ADE1N4003NPN

* 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 1F2



ADE 1F2 ISO

3

Ordering details

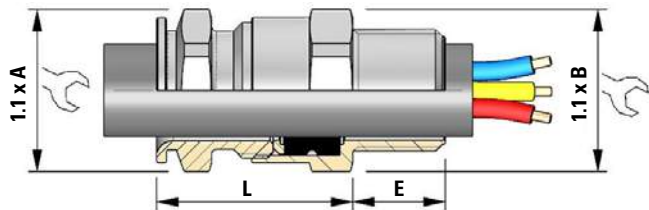
ISO	Type	Cable Ø outside mm	A mm	B mm	E mm	L mm	Order No. CuZn gal. Ni	Order No. stainless steel
Cable gland type ADE 1F2 for unarmoured cable with ISO thread								
M12 x 1.5	4	4.5 - 8	17	17	15	26	CAP 806 404 V1	CAP 806 409 V1
M16 x 1.5	4	4.5 - 8.5	19	17	15	26	CAP 806 594 V1	CAP 806 599 V1
M16 x 1.5	5	7 - 12	19	19	15	29.5	CAP 806 504 V1	CAP 806 509 V1
M20 x 1.5	3	2.75 - 5.5	24	15	15	24	CAP 806 664 V1	CAP 806 669 V1
M20 x 1.5	4	4.5 - 8.5	24	17	15	26	CAP 806 674 V1	CAP 806 679 V1
M20 x 1.5	5	7 - 12	24	19	15	29.5	CAP 806 694 V1	CAP 806 699 V1
M20 x 1.5	6	10 - 16	24	24	15	32	CAP 806 604 V1	CAP 806 609 V1
M25 x 1.5	5	7 - 12	30	19	15	29.5	CAP 806 774 V1	CAP 806 779 V1
M25 x 1.5	6	10 - 16	30	24	15	32	CAP 806 794 V1	CAP 806 799 V1
M25 x 1.5	7	13.5 - 20.5	30	30	15	38.5	CAP 806 704 V1	CAP 806 709 V1
M32 x 1.5	8	18 - 27.5	41	41	15	46	CAP 806 804 V1	CAP 806 809 V1
M40 x 1.5	9	23 - 34	48	48	15	50	CAP 806 904 V1	CAP 806 909 V1
M50 x 1.5	10	29 - 41	55	55	16	52	CAP 807 004 V1	CAP 807 009 V1
M50 x 1.5	11	35 - 45	64	64	16	56.5	CAP 807 084 V1	CAP 807 089 V1
M63 x 1.5	12	42 - 56	72	72	17	60	CAP 807 204 V1	CAP 807 209 V1
M75 x 1.5	13	50 - 65	85	85	18	67.5	CAP 807 304 V1	CAP 807 309 V1
M90 x 2.0	14	58 - 74	95	95	22	69	CAP 807 594 V1	CAP 807 599 V1
M90 x 2.0	15	66 - 83	110	110	22	80	CAP 807 504 V1	CAP 807 509 V1
M110 x 2.0	16	75 - 93	120	120	22	80	CAP 807 604 V1	CAP 807 609 V1
M110 x 2.0	17	85 - 104	135	135	22	90	CAP 807 704 V1	CAP 807 709 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 806 404 V1 K1 contains a ADE 1F2 M12 x 1.5 type 4 + 1 x MsNi lock nut M12 + 1 x green fibre gasket for M12

Dimension drawing



Type ADE 1F2

Dimensions in mm



ADE 1F2 NPT

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Ordering details

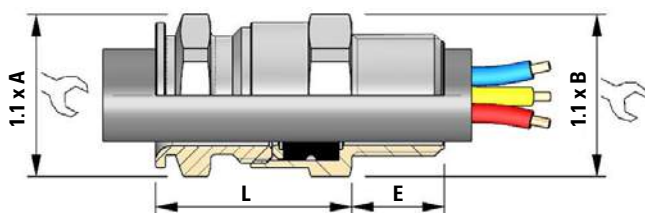
NPT	Type	Cable Ø outside mm	A mm	B mm	E mm	L mm	Order No. CuZn gal. Ni	Order No. stainless steel
Cable gland type ADE 1F2 for unarmoured cable with NPT thread								
1/2"	3	2.75 - 5.5	24	15	22.2	24	CAP 808 664 V1	CAP 808 669 V1
1/2"	4	4.5 - 8.5	24	17	22.2	26	CAP 808 674 V1	CAP 808 679 V1
1/2"	5	7 - 12	24	19	22.2	29.5	CAP 808 694 V1	CAP 808 699 V1
1/2"	6	10 - 15.5	24	24	22.2	32	CAP 808 604 V1	CAP 808 609 V1
3/4"	5	7 - 12	30	19	22.5	29.5	CAP 808 774 V1	CAP 808 779 V1
3/4"	6	10 - 16	30	24	22.5	32	CAP 808 794 V1	CAP 808 799 V1
3/4"	7	13.5 - 20.5	30	30	22.5	38.5	CAP 808 704 V1	CAP 808 709 V1
1"	8	18 - 26	41	41	27.3	46	CAP 808 804 V1	CAP 808 809 V1
1 1/4"	9	23 - 34	48	48	28	50	CAP 808 904 V1	CAP 808 909 V1
1 1/2"	10	29 - 41	55	55	28.5	52	CAP 809 004 V1	CAP 809 009 V1
2"	11	35 - 48	64	64	29.2	56.5	CAP 809 294 V1	CAP 809 299 V1
2"	12	42 - 53	72	72	29.2	60	CAP 809 204 V1	CAP 809 209 V1
2 1/2"	13	50 - 62.5	85	85	42.5	67.5	CAP 809 404 V1	CAP 809 409 V1
3"	14	58 - 74	95	95	44	69	CAP 809 594 V1	CAP 809 599 V1
3"	15	66 - 78	110	110	44	80	CAP 809 504 V1	CAP 809 509 V1
3 1/2"	16	75 - 92	120	120	45.2	80	CAP 809 604 V1	CAP 809 609 V1
4"	17	82 - 104	135	135	46.5	90	CAP 809 704 V1	CAP 809 709 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 808 604 V1 K1** contains a **ADE 1F2 1/2"** type 6 + 1 x **MsNi** lock nut 1/2" + 1 x green fibre gasket for 1/2"

Dimension drawing



Type ADE 1F2

Dimensions in mm