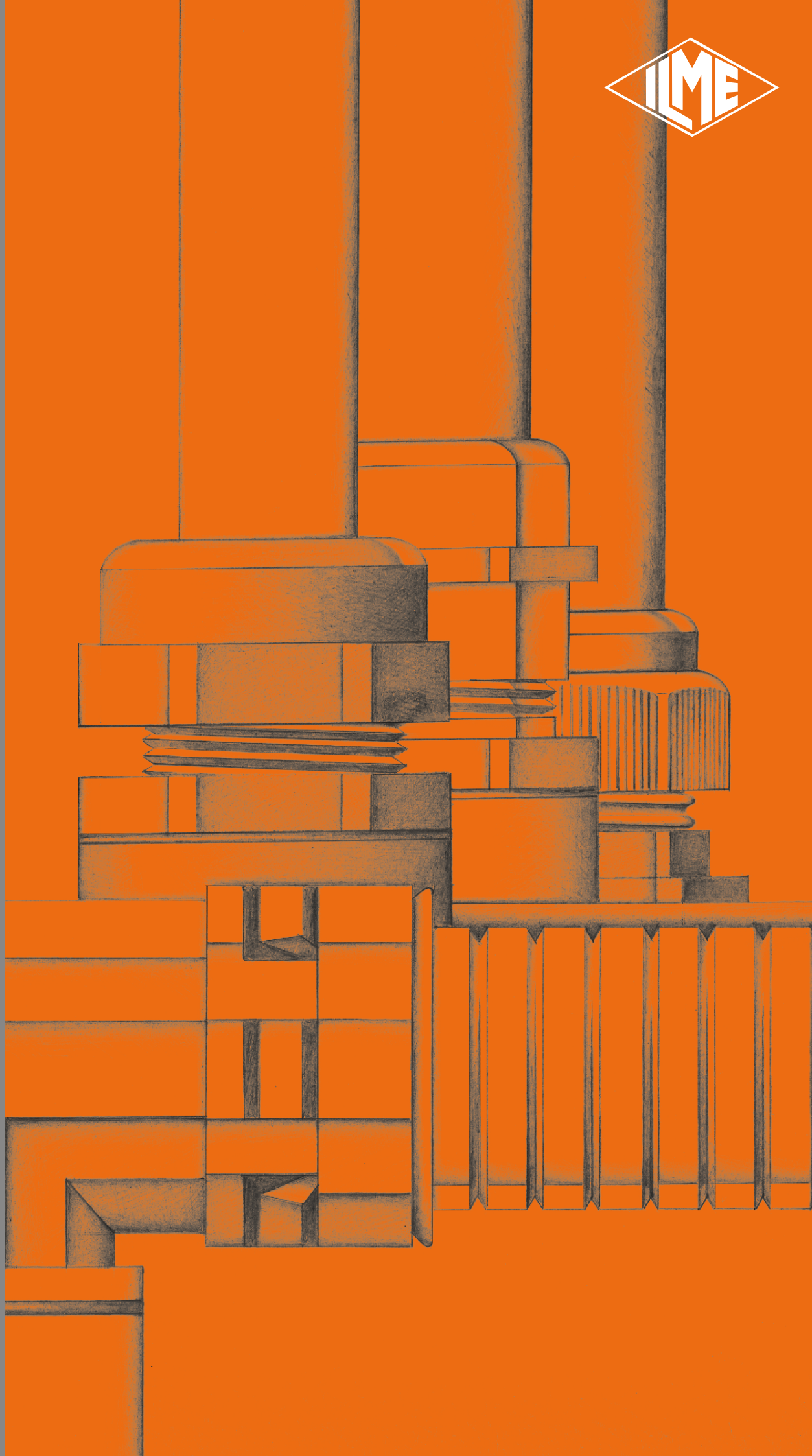
Cable glands, fittings and flexible conduits



ENGLISH

2017

The company and the product

I.L.M.E. SpA - **INDUSTRIA LOMBARDA MATERIALE ELETTRICO** - has been operating **in Milan since 1938** , in particular in the electrotechnical sector for the manufacture of equipment for industrial installations.
ILME reflects the traditional **entrepreneurial spirit of Lombardy,** and has enjoyed continuous expansion for over half a century. The company has carved an important role for itself in the principal world markets, also operating directly in the countries that have assumed world leadership in the field of automation, including Germany and Japan.
In the **electrical connection** sector with applications in industrial automation, characterised by **top performance** and utmost **reliability** needs**,** ILME is today the acknowledged partner of many leading companies worldwide.

The company's fundamental values are: **Product innovation**, original solutions, excellent **price-quality ratio,** acustomer-oriented **service,** ethical behaviour and respect for the environment.

To promote the continuing improvement of its qualitative **results,** ILME has always encouraged its collaborators to work with maximum **responsibility and participation.**

The company focuses on a series of benefits to the user, including research into the most suitable materials, high quality and safe cabling, a rapid turnaround and readily available services.

UNI EN ISO 9001: 2015
Design, manufacture and distribution
of industrial electrical equipment (IAF 19)
Certificate N° 50 100 11133

CE marking

As from 1st January 1997, in order to launch electrical products on the European market the manufacturer must ensure these bear the relevant CE marking, in line with the Low Voltage Directive 73/23/ EEC * (implemented in Italy as L. D. 18-10-1977 no. 791) and its modification 93/68/EEC * (implemented in Italy as L.D. 25-11-1996 no. 626/96, published in the supplement to the Gazzetta Ufficiale of 14-12-1996).
The CE marking must be visible on the product or, if this is not possible, on the packaging, the instructions for use or on the warranty certificate. It acts as a declaration by the manufacturer that the product complies with all relevant EU directives regarding its field of application.

ILME products bear the CE marking on the actual product or its packaging.

Almost all ILME products fall within the scope of the Low Voltage Directive. A declaration of conformity is required in order to be able to apply the CE marking. This declaration, to which the market is not directly entitled, must be made available to the controlling authorities (in Italy, the Ministry for Industry, Commerce and Handicraft) at all times. In it, the manufacturer declares the technical safety standard(s) followed in the manufacture of the product. These standards must be, in decreasing order of preference:

- a European standard (EN prefix)
- a European harmonisation document (HD prefix)
- an international IEC standard
- a national standard
- in the absence of reference standards, the manufacturer's internal specifications guaranteeing compliance with the basic safety requirements of the directive.

Compliance with harmonised technical standards (i.e. ratified by CENELEC) also constitutes presumption of compliance with the basic safety requirements of the directives.
The CE marking of ILME products results from the declaration of conformity of the product to harmonised standards or international IEC standards.

Through the CE marking, ILME declares full compliance, not merely with the directive's basic safety requirements, but also with those international or national EU standards on which voluntary safety certification markings are based (e.g. IMQ and VDE). In this way, ILME intends to give the CE marking the value of self-certification in terms of safety, given the loss in legal value of voluntary certifications issued by third parties, ratified by directive 93/68/EEC*.

Notwithstanding the above, practically all ILME products still bear voluntary conformity markings.

The above mentioned EU declaration of conformity becomes null and void when the assembly of products includes one or more components not manufactured by ILME and without CE marking.

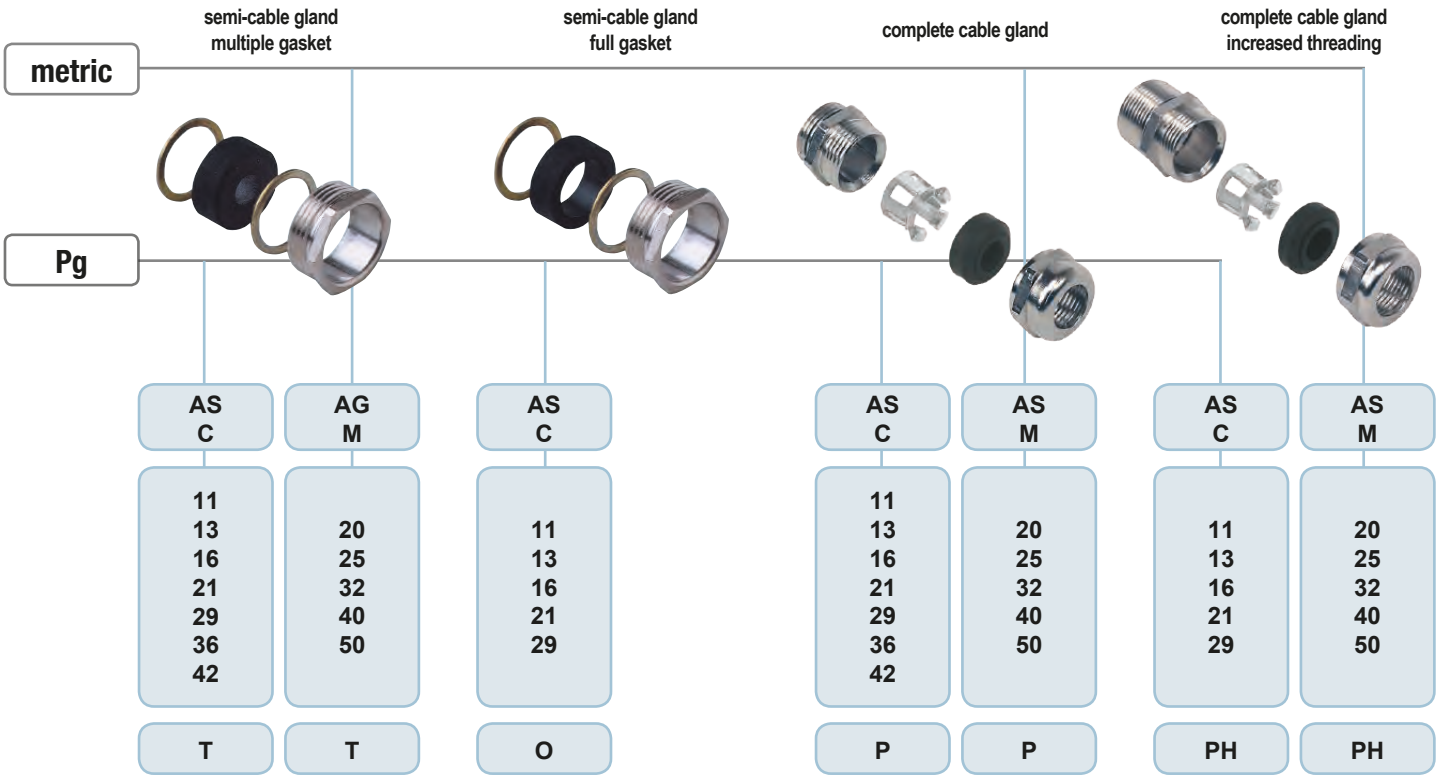
***Note:** The next legal reference for the Low Voltage Directive was 2006/95/EC, as consolidation of the original Directive 73/23/EEC + Directive 93/68/EEC. On 29th March 2014, the Official Journal of the European Union published the new Low Voltage directive 2014/35/EU dd. 26th February 2014, a recast version of directive 2006/95/EC, which is in force since on 20th April 2016.

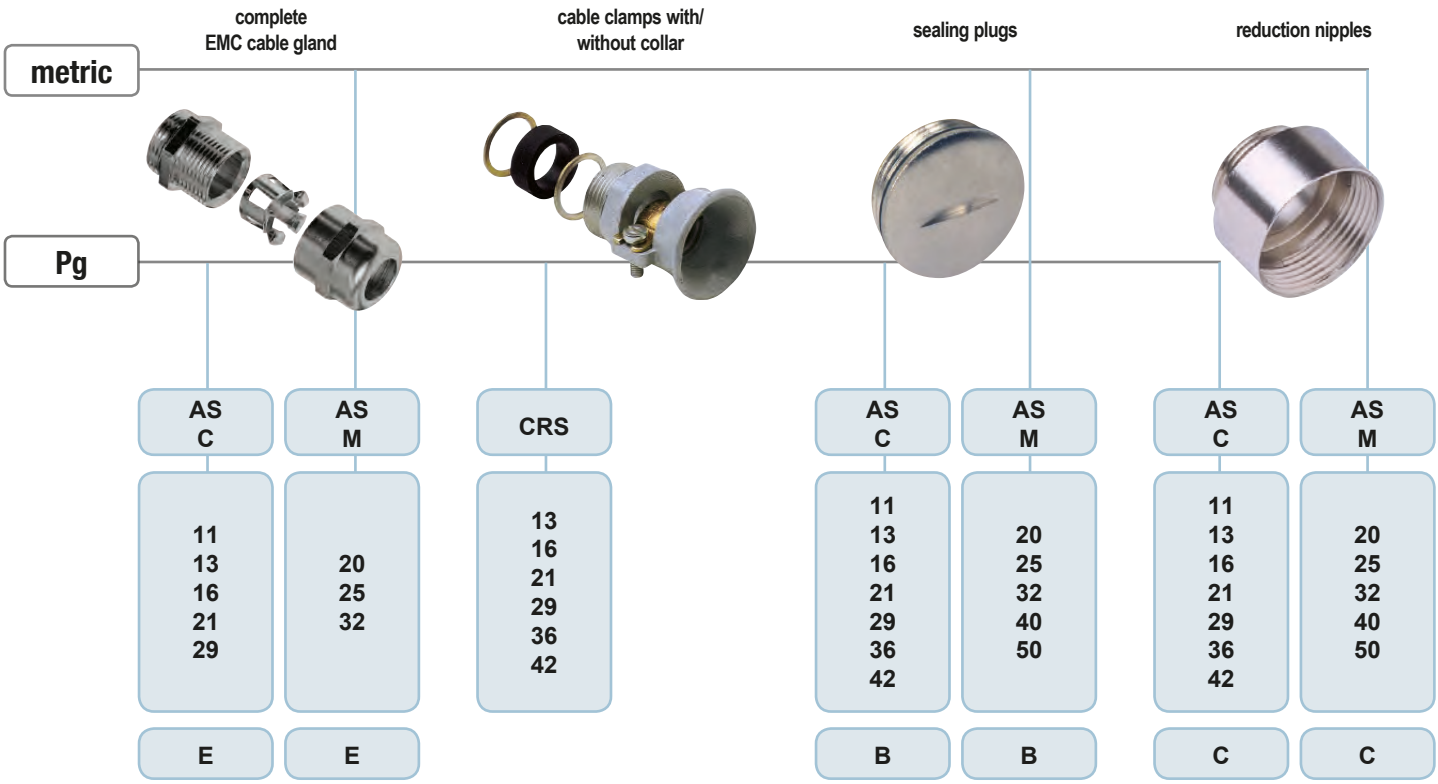
The information contained in this catalogue is not binding and may be changed without notice.

Composition of the part No.: e.g. **AS C 11 P**

- article series
- metric or Pg threading
- threading size
- version

Metal cable glands

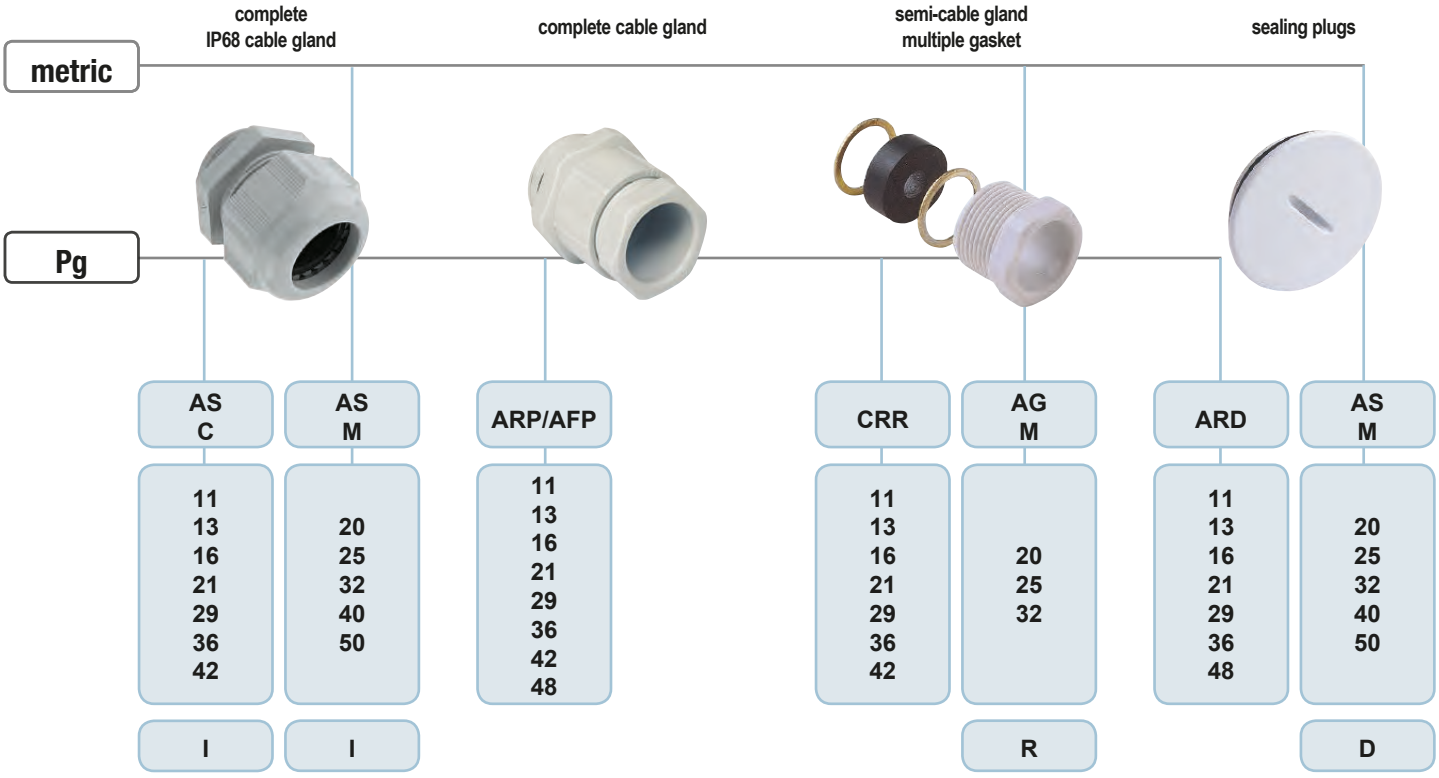


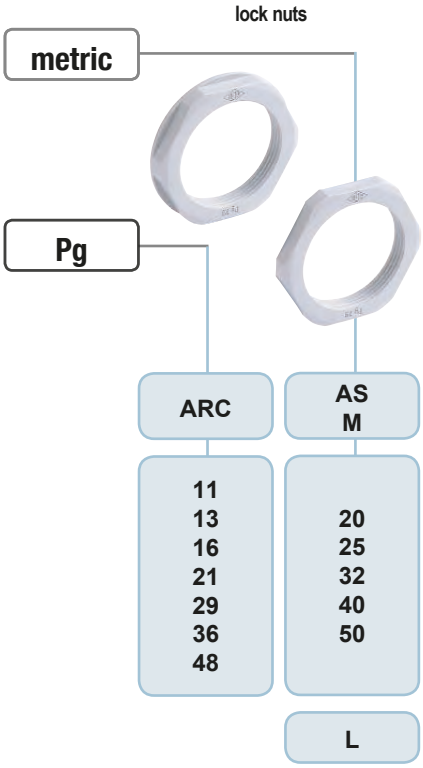


Composition of the part No.: e.g. **AS M 20 P**

- article series
- metric or Pg threading
- threading size
- version

Insulating cable glands





Composition of the part No.: e.g. **AW M 20 PHX**

- article series
- metric or Pg threading
- threading size
- version

Metal cable glands

metric

AW M

12 16 20 25 32 40 50 63

PHX

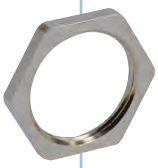
complete IP66/IP68 cable gland

AW M

12 16 20 25 32 40 50 63

INX

complete cable gland



AW M

12 16 20 25 32 40 50 63

NX

lock nuts

Diameter of cables that may be used with cable glands

Pg threading

Ø in mm

series	11	13,5	16	21	29	36	42	48
AS C..P	from 5 to 10,5	from 6 to 12,5	from 7 to 14,5	from 10 to 18	from 14 to 24	from 23 to 30	from 26 to 35	
AS C..PH	from 5 to 10,5	from 6 to 12,5	from 7 to 14,5	from 10 to 18	from 14 to 24			
AS C..E	from 7 to 10,5	from 8 to 12,5	from 10 to 14,5	from 13,5 to 18	from 17 to 24	from 24 to 30		
CRS..		12	14	18	25	32	38	
CRS..C *			7,5-10-12,5-15	10-13-16-19				
AS C..O	9	11	13	16	25			
AS C..T	7,5-10	7,5-10-12,5	7,5-10-12,5-15	10-13-16-19	18-21-24-27	24-27-30-33	30-33-36-39	
AS C..I	from 3,5 to 10	from 5 to 12	from 7 to 14	from 9 to 18	from 14 to 25	from 18 to 32	from 24 to 38,5	
AFP/ARP	7,5-10-12,5	7,5-10-12,5	7,5-10-12,5-15	10-13-16-19	18-21-24-27	24-27-30-33	30-33-36-39	36-39-42-45
CRR..	5-7,5-10-12,5	7,5-10-12,5	7,5-10-12,5-15	10-13-16-19	18-21-24-27	24-27-30-33	30-33-36-39	

*Kit with multiple gasket

Metric threading

Ø in mm

series	12	16	20	25	32	40	50	63
AS M..P			from 6 to 12,5	from 10 to 18	from 14 to 24	from 15 to 24	from 23 to 30	
AS M..PH			from 6 to 12,5	from 10 to 18	from 14 to 24	from 15 to 24	from 23 to 30	
AS M..E			from 8 to 12,5	from 13,5 to 18	from 17 to 24	from 24 to 30		
AG M..T			7 -10-13	11-14-17	19-21-24	26-29-32	35-38-41	
AG M..I			from 5 to 12,5	from 9 to 18	from 14 to 25	from 18 to 32	from 24 to 38,5	
AG M..R			7-10-13	11-14-17	19-21-24			
AW M..PHX	from 4,0 to 7,0	from 5,0 to 10,0	from 6,0 to 13,0	from 10,0 to 17,0	from 13,0 to 21,0	from 16,0 to 28,0	from 21,0 to 35,0	from 34,0 to 48,0
AW M..INX	from 3,0 to 6,0	from 4,5 to 9,0	from 7,0 to 13,0	from 10,0 to 17,0	from 13,0 to 21,0	from 17,0 to 28,0	from 23,0 to 35,0	from 34,0 to 48,0

AS metal cable glands

- IP68 degree of protection (EN 60529)
- temperature range -25 °C / +120 °C
- metric threading according to EN 60423 and EN 62444
- Pg threading according to DIN 40430 and DIN 46320
- anti-aging rubber gaskets
- Pg 36/42 - M40/50 cable glands temperature range -30 °C / +95 °C
- long threed with temperature range -40 °C / +100 °C

complete cable gland in nickel-plated brass

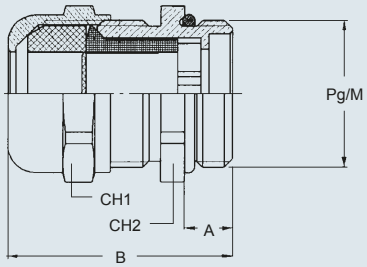
complete cable gland in nickel-plated brass long*

description	part No.	Pg or M threading	part No.	Pg or M threading
- for cable Ø 6 - 10 mm	**AS C11P**	Pg 11	**AS C11PH**	Pg 11
- for cable Ø 8 - 12 mm	**AS C13P**	Pg 13,5	**AS C13PH**	Pg 13,5
- for cable Ø 9,5 - 14 mm	**AS C16P**	Pg 16	**AS C16PH**	Pg 16
- for cable Ø 11,5 - 18 mm	**AS C21P**	Pg 21	**AS C21PH**	Pg 21
- for cable Ø 15 - 24 mm	**AS C29P**	Pg 29	**AS C29PH**	Pg 29
- for cable Ø 23 - 30 mm	**AS C36P**	Pg 36		
- for cable Ø 26 - 35 mm	**AS C42P**	Pg 42		
- for cable Ø 8 - 12 mm	**AS M20P**	M 20	**AS M20PH**	M 20
- for cable Ø 11,5 - 18 mm	**AS M25P**	M 25	**AS M25PH**	M 25
- for cable Ø 15 - 24 mm	**AS M32P**	M 32	**AS M32PH**	M 32
- for cable Ø 15 - 24 mm	**AS M40P**	M 40	**AS M40PH**	M 40
- for cable Ø 23 - 30 mm	**AS M50P**	M 50	**AS M50PH**	M 50

*for use with:
- metal lock nuts (page 9)
- multipole connector enclosures CF/MF 6/10/16/24/32/48/50 (new version)
- IP68 high protection multipole connector enclosures
- BIG enclosures

dimensions in mm

AS C..P - AS M..P

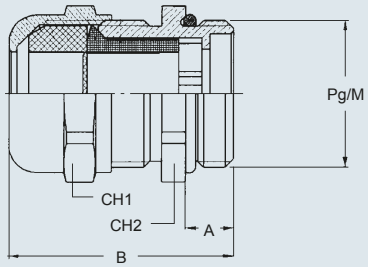


AS C..P	A	B	CH1	CH2
11	6	26	20	20
13,5	6,5	28	22	22
16	6,5	30	24	24
21	7	35	30	30
29	8	43	40	40
36	9	50	50	50
42	10	57	58	58

AS M..P	A	B	CH1	CH2
20	7	29	22	22
25	8	37	30	30
32	8,5	45	40	40
40	8,5	45	40	42
50	9,5	51	50	55

dimensions in mm

AS C..PH - AS M..PH



AS C..PH	A	B	CH1	CH2
11	15	35	20	20
13,5	15	36,5	22	22
16	15	38,5	24	24
21	15	43	30	30
29	15	50	40	40

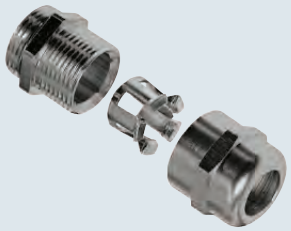
AS M..PH	A	B	CH1	CH2
20	13	35	22	22
25	14	43	30	30
32	14,5	51	40	40
40	14,5	51	40	42
50	15,5	57	50	55

dimensions shown are not binding
and may be changed without notice

AS metal cable glands

- IP68 class of protection (EN 60529)
- temperature range -25 °C / +120 °C
- metric threading according to EN 60423 and EN 62444
- Pg threading according to DIN 40430 and DIN 46320
- anti-aging rubber internal gasket
- screening hold system

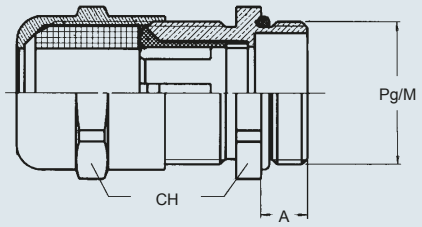
complete EMC cable gland in nickel-plated brass



description	part No.	Pg or M threading
- for cable Ø 7 - 10,5 mm	**AS C11E**	Pg 11
- for cable Ø 8 - 12,5 mm	**AS C13E**	Pg 13,5
- for cable Ø 10 - 14,5 mm	**AS C16E**	Pg 16
- for cable Ø 13,5 - 18 mm	**AS C21E**	Pg 21
- for cable Ø 17 - 24 mm	**AS C29E**	Pg 29
- for cable Ø 24 - 30 mm	**AS C36E**	Pg 36
- for cable Ø 8 - 12,5 mm	**AS M20E**	M 20
- for cable Ø 13,5 - 18 mm	**AS M25E**	M 25
- for cable Ø 17 - 24 mm	**AS M32E**	M 32
- for cable Ø 24 - 30 mm	**AS M40E**	M 40

dimensions in mm

AS C..E - AS M..E



AS C..E	A	CH
11	6	20
13,5	6,5	22
16	6,5	24
21	7	30
29	8	40
36	9	50

AS M..E	A	CH
20	7	22
25	8	30
32	8,5	40
40	8,5	50

dimensions shown are not binding
and may be changed without notice

CR metal cable glands

- IP65 degree of protection (EN 60529) for use with connector enclosures
- Pg threading according to DIN 40430 and DIN 46320
- made of die-cast aluminum alloy
- anti-aging rubber gasket
- washers in zinc-plated steel

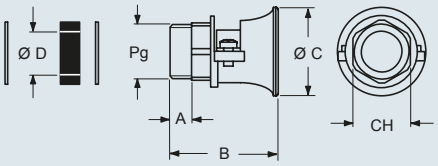
metal cable clamps with collar, including gaskets and washers

metal cable clamps without collar, gaskets and washers

description	part No.	Pg threading	part No.	Pg threading
- rubber hole Ø 12 mm	**CRS 13.5**	13,5		
- rubber hole Ø 14 mm	**CRS 16**	16		
- rubber hole Ø 18 mm	**CRS 21**	21		
- rubber hole Ø 25 mm	**CRS 29**	29		
- rubber hole Ø 32 mm	**CRS 36**	36		
- rubber hole Ø 38 mm	**CRS 42**	42		
without gasket and washer, not coated (order separately)				
- threading Pg 16			**CRS 16 C**	
- threading Pg 21			**CRS 21 C**	
kit comprising a full gasket and two washers (for cable anchoring CRS..C)				
- rubber hole Ø 14 mm			**CRA 16**	16
- rubber hole Ø 18 mm			**CRA 21**	21
kit comprising a multiple gasket and two washers (for cable anchoring CRS..C)				
- rubber hole Ø 7,5 - 10 - 12,5 - 15 mm			**CRAC 16**	16
- rubber hole Ø 10 - 13 - 16 - 19 mm			**CRAC 21**	21

dimensions in mm

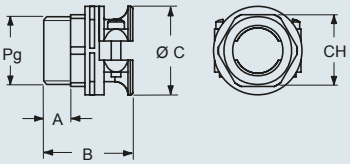
CRS



CRS	A	B	Ø C	Ø D	CH
13,5	7	36	28	12	22
16	8,5	41	32	14	24
21	10	47	39	18	30
29	10,5	58	55	25	41
36	13	67,5	67	32	50
42	13	72,5	75	38	55

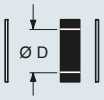
dimensions in mm

CRS..C



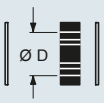
CRS..C	A	B	Ø C	CH
16	8	30	30	24
21	10	36	37	30

CRA



CRA	Ø D
16	14
21	18

CRAC



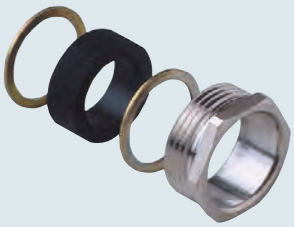
CRAC	Ø D
16	7,5 - 10 - 12,5 - 15
21	10 - 13 - 16 - 19

dimensions shown are not binding and may be changed without notice

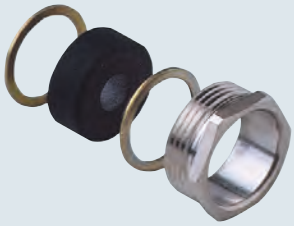
AS - AG metal cable glands

- IP65 degree of protection (EN 60529) for use with connector enclosures
- temperature range -25 °C / +100 °C
- metric threading according to EN 60423 and EN 62444
- Pg threading according to DIN 40430 and DIN 46320
- anti-aging rubber gasket
- galvanised steel washers

semi-cable gland
full gasket
in nickel-plated brass



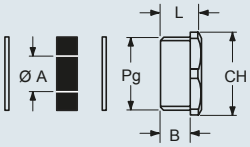
semi-cable gland
multiple gasket
in nickel-plated brass



description	part No.	Pg threading	part No.	Pg or M threading
- for cable Ø 9	**AS C11O**	11		
- for cable Ø 11	**AS C13O**	13,5		
- for cable Ø 13	**AS C16O**	16		
- for cable Ø 16	**AS C21O**	21		
- for cable Ø 25	**AS C29O**	29		
- for cable Ø 7,5 - 10			**AS C11T**	Pg 11
- for cable Ø 7,5 - 10 - 12,5			**AS C13T**	Pg 13,5
- for cable Ø 7,5 - 10 - 12,5 - 15			**AS C16T**	Pg 16
- for cable Ø 10 - 13 - 16 - 19			**AS C21T**	Pg 21
- for cable Ø 18 - 21 - 24 - 27			**AS C29T**	Pg 29
- for cable Ø 24 - 27 - 30 - 33			**AS C36T**	Pg 36
- for cable Ø 30 - 33 - 36 - 39			**AS C42T**	Pg 42
- for cable Ø 7 - 10 - 13			**AG M20T**	M 20
- for cable Ø 11 - 14 - 17			**AG M25T**	M 25
- for cable Ø 19 - 21 - 24			**AG M32T**	M 32
- for cable Ø 26 - 29 - 32			**AG M40T**	M 40
- for cable Ø 35 - 38 - 41			**AG M50T**	M 50

dimensions in mm

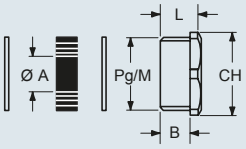
AS C..O



AS C..O	CH	Ø A	B	L
11	18	9	6	9
13	20	11	7,5	10,5
16	22	13	7,5	10,5
21	28	16	8	11,5
29	37	25	8	12

dimensions in mm

AS C..T - AG M..T



AS C..T	CH	Ø A	B	L
11	18	7,5 - 10	6	9
13	20	7,5 - 10 - 12,5	7,5	10,5
16	22	7,5 - 10 - 12,5 - 15	7,5	10,5
21	28	10 - 13 - 16 - 19	8	11,5
29	37	18 - 21 - 24 - 27	8	12
36	47	24 - 27 - 30 - 33	9,5	14
42	54	30 - 33 - 36 - 39	10	16

AG M..T	CH	Ø A	B	L
20	20	6 - 8 - 10	7,5	10,5
25	25	11 - 14 - 17	8	11,5
32	32	19 - 21 - 24	8	12
40	40	26 - 29 - 32	8	12
50	50	35 - 38 - 41	9,5	14

dimensions shown are not binding
and may be changed without notice

AS metal cable glands

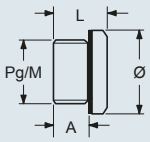
- IP68 degree of protection (EN 60529)
- metric threading according to EN 60423 and EN 62444
- Pg threading according to DIN 40430 and DIN 46320
- anti-aging rubber O-ring gasket
- temperature range -25 °C / +120 °C

sealing plug
in nickel-plated brass

description	part No.	Pg or M threading
- for Pg 11 threading	**AS C11B**	Pg 11
- for Pg 13,5 threading	**AS C13B**	Pg 13,5
- for Pg 16 threading	**AS C16B**	Pg 16
- for Pg 21 threading	**AS C21B**	Pg 21
- for Pg 29 threading	**AS C29B**	Pg 29
- for Pg 36 threading	**AS C36B**	Pg 36
- for Pg 42 threading	**AS C42B**	Pg 42
- for M 20 threading	**AS M20B**	M 20
- for M 25 threading	**AS M25B**	M 25
- for M 32 threading	**AS M32B**	M 32
- for M 40 threading	**AS M40B**	M 40
- for M 50 threading	**AS M50B**	M 50

dimensions in mm

AS C..B - AS M..B



AS C..B	Ø	A	L
11	20	6	9
13,5	22	6,5	9,5
16	24	6,5	9,5
21	30	7	11
29	39	8	12
36	50	9	15
42	57	10	16

AS M..B	Ø	A	L
20	22	6,5	8,5
25	27	7	10
32	34	8	11
40	44	9	13
50	54	10	14,5

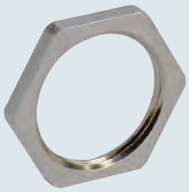
dimensions shown are not binding
and may be changed without notice

AS metal cable glands

- metric threading according to EN 60423 and EN 62444
- Pg threading according to DIN 40430 and DIN 46320
- anti-aging rubber O-ring gasket

reduction nipples in nickel-plated brass including gasket

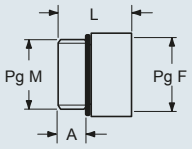
lock nuts in nickel-plated brass



description	part No.	part No.	Pg or M threading
- male Pg 11 / female Pg 13,5 threading	**AS C11C**		
- male Pg 13,5 / female Pg 16 threading	**AS C13C**		
- male Pg 16 / female Pg 21 threading	**AS C16C**		
- male Pg 21 / female Pg 29 threading	**AS C21C**		
- male Pg 29 / female Pg 36 threading	**AS C29C**		
- male Pg 36 / female Pg 42 threading	**AS C36C**		
- male Pg 42 / female Pg 48 threading	**AS C42C**		
- male M 20 / female M 25 threading	**AS M20C**		
- male M 25 / female M 32 threading	**AS M25C**		
- male M 32 / female M 40 threading	**AS M32C**		
- male M 40 / female M 50 threading	**AS M40C**		
- male M 50 / female M 63 threading	**AS M50C**		
- for Pg 11 threading		**AS C11N**	Pg 11
- for Pg 13,5 threading		**AS C13N**	Pg 13,5
- for Pg 16 threading		**AS C16N**	Pg 16
- for Pg 21 threading		**AS C21N**	Pg 21
- for Pg 29 threading		**AS C29N**	Pg 29
- for Pg 36 threading		**AS C36N**	Pg 36
- for Pg 42 threading		**AS C42N**	Pg 42
- for Pg 48 threading		**AS C48N**	Pg 48
- for M 20 threading		**AS M20N**	M 20
- for M 25 threading		**AS M25N**	M 25
- for M 32 threading		**AS M32N**	M 32
- for M 40 threading		**AS M40N**	M 40
- for M 50 threading		**AS M50N**	M 50

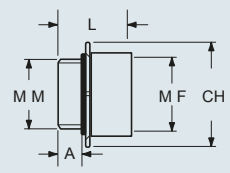
dimensions in mm

AS C..C



AS C..C	Pg M	Pg F	A	L
11	11	13,5	6	17,5
13,5	13,5	16	6,5	19
16	16	21	6,5	21
21	21	29	7	23
29	29	36	8	28
36	36	42	9	31
42	42	48	10	33

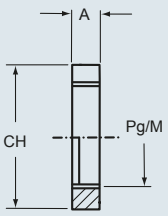
AS M..C



AS M..C	M M	M F	CH	A	L
20	20	25	28	7	20
25	25	32	36	8	21,5
32	32	40	42	8,5	22
40	40	50	52	8,5	23
50	50	63	65	9,5	25

dimensions in mm

AS C..N - AS M..N



AS C..N	A	CH
11	2,9	21
13,5	3,1	23
16	3,1	26
21	3,6	32
29	4,1	41
36	5,1	51
42	5,1	60
48	5,6	64

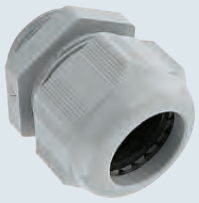
AS M..N	A	CH
20	3,5	24
25	3,5	30
32	4,5	35
40	4,5	45
50	5,5	55

dimensions shown are not binding
and may be changed without notice

AS - AR - AF insulating cable glands

- AS..I IP68 degree of protection (EN 60529)(1) for use with lock nuts (page 12)
- ARP/AFP IP67 degree of protection (EN 60529)
- temperature range -25 °C / +100 °C
- metric threading according to EN 60423 and EN 62444
- Pg threading according to DIN 40430 and DIN 46320
- anti-aging rubber gaskets
- AS C/AS M grey RAL 7001, AS C11I / AS M 20I grey RAL 7035, AS C11IN / AS M20IN black RAL 9005

complete insulating cable gland(2)



complete insulating cable gland

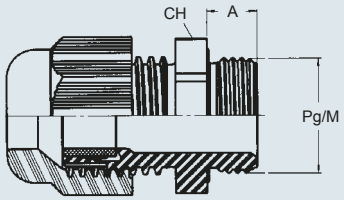
description	part No.		Pg or M threading	part No.	Pg threading
- for cable Ø 3,5 - 10 mm	**AS C11I**	grey	Pg 11		
- for cable Ø 3,5 - 10 mm	**AS C11IN**	black	Pg 11		
- for cable Ø 5 - 12 mm	**AS C13I**		Pg 13,5		
- for cable Ø 7 - 14 mm	**AS C16I**		Pg 16		
- for cable Ø 9 - 18 mm	**AS C21I**		Pg 21		
- for cable Ø 14 - 25 mm	**AS C29I**		Pg 29		
- for cable Ø 18 - 32 mm	**AS C36I**		Pg 36		
- for cable Ø 24 - 38,5 mm	**AS C42I**		Pg 42		
- for cable Ø 5 - 12,5 mm	**AS M20I**	grey	M 20		
- for cable Ø 5 - 12,5 mm	**AS M20IN**	black	M 20		
- for cable Ø 9 - 18 mm	**AS M25I**		M 25		
- for cable Ø 14 - 25 mm	**AS M32I**		M 32		
- for cable Ø 18 - 32 mm *	**AS M40I**		M 40		
- for cable Ø 24 - 38,5 mm *	**AS M50I**		M 50		
- rubber hole Ø 7,5 - 10 - 12,5 mm				**ARP 11**	11
- rubber hole Ø 7,5 - 10 - 12,5 mm				**ARP 13**	13,5
- rubber hole Ø 7,5 - 10 - 12,5 - 15 mm				**AFP 16**	16
- rubber hole Ø 10 - 13 - 16 - 19 mm				**AFP 21**	21
- rubber hole Ø 18 - 21 - 24 - 27 mm				**AFP 29**	29
- rubber hole Ø 24 - 27 - 30 - 33 mm				**AFP 36**	36
- rubber hole Ø 30 - 33 - 36 - 39 mm				**ARP 42**	42
- rubber hole Ø 36 - 39 - 42 - 45 mm				**ARP 48**	48

(1) AS...I IP65 degree of protection for use with connector enclosures; IP68 if mounted with gasket (page 27).

(2) UL, VDE, CSA approval

dimensions in mm

AS C..I - AS M..I

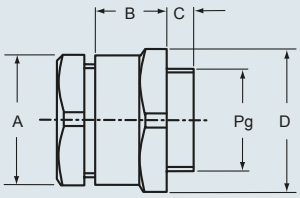


AS C..I	A	CH
11	8	22
13	9	24
16	10	27
21	11	33
29	11	42
36	13	53
42	13	60

AS M..I	A	CH
20	10	24
25	10	33
32	10	42
40	10	53
50	12	60

dimensions in mm

ARP / AFP



part No	A	B	C	D	Pg
ARP 11	19	20	9	24	11
ARP 13	22	19,5	9	26	13,5
AFP 16	24	21	10	29	16
AFP 21	30	26	10	39	21
AFP 29	41	29,5	10	50	29
AFP 36	50	33,5	10	58	36
ARP 42	54	28	12,5	60	42
ARP 48	64	41,5	13,5	77	48

dimensions shown are not binding and may be changed without notice

CR - AG insulating cable glands

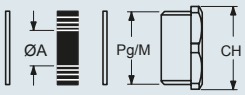
- IP65 degree of protection (EN 60529) for use with connector enclosures
- metric threading according to EN 60423 and EN 62444
- Pg threading according to DIN 40430 and DIN 46320
- anti-aging rubber gasket
- washers in zinc-plated steel

semi-cable gland with multiple gasket in insulating material

description	part No.		Pg or M threading
- for cable Ø 7,5 - 10 - 12,5	**CRR 11**	white	Pg 11
- for cable Ø 7,5 - 10 - 12,5	**CRR 11 N**	black	Pg 11
- for cable Ø 7,5 - 10 - 12,5	**CRR 13**		Pg 13,5
- for cable Ø 7,5 - 10 - 12,5 - 15	**CRR 16**		Pg 16
- for cable Ø 10 - 13 - 16 - 19	**CRR 21**		Pg 21
- for cable Ø 18 - 21 - 24 - 27	**CRR 29**		Pg 29
- for cable Ø 24 - 27 - 30 - 33	**CRR 36**		Pg 36
- for cable Ø 30 - 33 - 36 - 39	**CRR 42**		Pg 42
- for cable Ø 7 - 10 - 13	**AG M20R**	white	M 20
- for cable Ø 7 - 10 - 13	**AG M20RN**	black	M 20
- for cable Ø 11 - 14 - 17	**AG M25R**		M 25
- for cable Ø 19 - 21 - 24	**AG M32R**		M 32

dimensions in mm

CRR - AG M..R



CRR	CH	Ø A
11	19	7,5 - 10 - 12,5
11 N	19	7,5 - 10 - 12,5
13	22	7,5 - 10 - 12,5
16	24	7,5 - 10 - 12,5 -15
21	30	10 - 13 - 16 - 19
29	41	18 - 21 - 24 - 27
36	50	24 - 27 - 30 - 33
42	60	30 - 33 - 36 - 39

AG M..R	CH	Ø A
20	21	7 - 10 - 13
20 N	21	7 - 10 - 13
25	26	11 - 14 - 17
32	34	19 - 21 - 24

dimensions shown are not binding
and may be changed without notice

AR - AS insulating cable glands

- in thermoplastic material
- anti-aging rubber gasket
- metric threading according to EN 60423 and EN 62444
- Pg threading according to DIN 40430 and DIN 46320

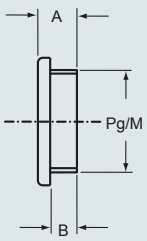
insulating sealing plugs

lock nuts

description	part No.	Pg or M threading	part No.	Pg or M threading
- for Pg 11 threading	**ARD 11**	Pg 11		
- for Pg 13,5 threading	**ARD 13**	Pg 13,5		
- for Pg 16 threading	**ARD 16**	Pg 16		
- for Pg 21 threading	**ARD 21**	Pg 21		
- for Pg 29 threading	**ARD 29**	Pg 29		
- for Pg 36 threading	**ARD 36**	Pg 36		
- for Pg 48 threading	**ARD 48**	Pg 48		
- for M 20 threading	**AS M20D**	M 20		
- for M 25 threading	**AS M25D**	M 25		
- for M 32 threading	**AS M32D**	M 32		
- for M 40 threading	**AS M40D**	M 40		
- for M 50 threading	**AS M50D**	M 50		
- for Pg 11 threading			**ARC 11**	Pg 11
- for Pg 13,5 threading			**ARC 13**	Pg 13,5
- for Pg 16 threading			**ARC 16**	Pg 16
- for Pg 21 threading			**ARC 21**	Pg 21
- for Pg 29 threading			**ARC 29**	Pg 29
- for Pg 36 threading			**ARC 36**	Pg 36
- for Pg 48 threading			**ARC 48**	Pg 48
- for M 20 threading			**AS M20L**	M 20
- for M 25 threading			**AS M25L**	M 25
- for M 32 threading			**AS M32L**	M 32
- for M 40 threading			**AS M40L**	M 40
- for M 50 threading			**AS M50L**	M 50

dimensions in mm

ARD - AS M..D



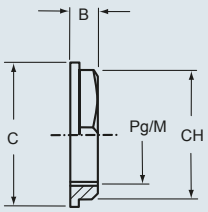
part No.	**A**	**B**
ARD 11	7,5	6
ARD 13	7,5	6
ARD 16	7,5	6
ARD 21	10	8
ARD 29	10	8
ARD 36	12	10
ARD 48	14	12

part No.	**A**	**B**
AS M20D	10,5	8
AS M25D	11	8
AS M32D	13,5	10
AS M40D	14	10
AS M50D	17	12

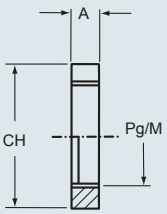
dimensions shown are not binding and may be changed without notice

dimensions in mm

ARC



AS M..L



part No.	**CH**	**B**	**C**
ARC 11	24	5	26
ARC 13	27	6	29
ARC 16	30	6	33
ARC 21	36	7	39
ARC 29	46	7	50
ARC 36	60	8	66
ARC 48	70	8	78

part No.	**CH**	**A**
AS M20L	24	5
AS M25L	30	6
AS M32L	38	7,5
AS M40L	50	8
AS M50L	60	9

AW..PHX metal cable glands

- IP66/IP68 degree of protection (5 bar; 30 min - EN 60529)
- temperature range -40 °C / +75 °C
- metric threading according to EN 60423 and EN 62444
- EPDM gasket

complete cable gland in nickel-plated brass, long thread *

description	part No.	M threading
- for cable Ø 4,0 - 7,0 mm	**AW M12PHX**	M 12
- for cable Ø 5,0 - 10,0 mm	**AW M16PHX**	M 16
- for cable Ø 6,0 - 13,0 mm	**AW M20PHX**	M 20
- for cable Ø 10,0 - 17,0 mm	**AW M25PHX**	M 25
- for cable Ø 13,0 - 21,0 mm	**AW M32PHX**	M 32
- for cable Ø 16,0 - 28,0 mm	**AW M40PHX**	M 40
- for cable Ø 21,0 - 35,0 mm	**AW M50PHX**	M 50
- for cable Ø 34,0 - 48,0 mm	**AW M63PHX**	M 63

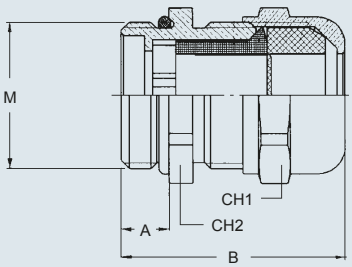
II 2 G Ex e IIC Gb

II 2 D Ex tb IIIC Db IP68

* to be used with metal lock nuts (page 14)

dimensions in mm

AW M..PHX



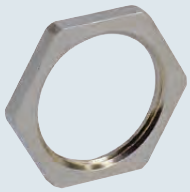
AW M..PHX	A	B min	B max	CH1	CH2
12	12,0	30,0	37,0	16,0	16,0
16	12,0	33,0	41,0	20,0	20,0
20	12,0	35,0	43,0	24,0	24,0
25	12,0	38,0	47,0	29,0	29,0
32	15,0	43,0	51,0	36,0	36,0
40	15,0	51,0	62,0	46,0	46,0
50	15,0	57,0	68,0	55,0	55,0
63	15,0	61,0	72,0	68,0	68,0

dimensions shown are not binding and may be changed without notice

AW..NX lock nuts

- metric threading according to EN 60423 and EN 62444

lock nuts
in nickel-plated brass



description	part No.	M threading
- for M 12 threading	**AW M12NX**	M 12
- for M 16 threading	**AW M16NX**	M 16
- for M 20 threading	**AW M20NX**	M 20
- for M 25 threading	**AW M25NX**	M 25
- for M 32 threading	**AW M32NX**	M 32
- for M 40 threading	**AW M40NX**	M 40
- for M 50 threading	**AW M50NX**	M 50
- for M 63 threading	**AW M63NX**	M 63

dimensions shown are not binding
and may be changed without notice

AW..INX insulating cable glands

- IP66/IP68 degree of protection (5 bar; 30 min - EN 60529)
- temperature range -40 °C / +75 °C
- metric threading according to EN 60423 and EN 62444
- in thermoplastic material

complete insulating cable gland *

description	part No.	M threading
- for cable Ø 3,0 - 6,0 mm	**AW M12INX**	M 12
- for cable Ø 4,5 - 9,0 mm	**AW M16INX**	M 16
- for cable Ø 7,0 - 13,0 mm	**AW M20INX**	M 20
- for cable Ø 10,0 - 17,0 mm	**AW M25INX**	M 25
- for cable Ø 13,0 - 21,0 mm	**AW M32INX**	M 32
- for cable Ø 17,0 - 28,0 mm	**AW M40INX**	M 40
- for cable Ø 23,0 - 35,0 mm	**AW M50INX**	M 50
- for cable Ø 34,0 - 48,0 mm	**AW M63INX**	M 63

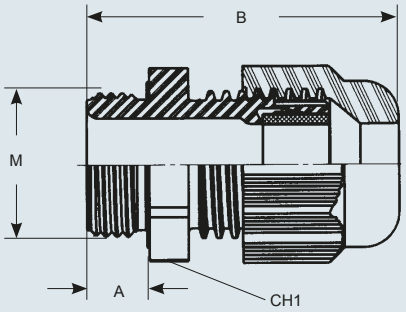
II 2 G Ex e IIC Gb

I 2 D Ex tb IIIC Db IP68

* to be used with metal lock nuts (page 14)

dimensions in mm

AW M..INX



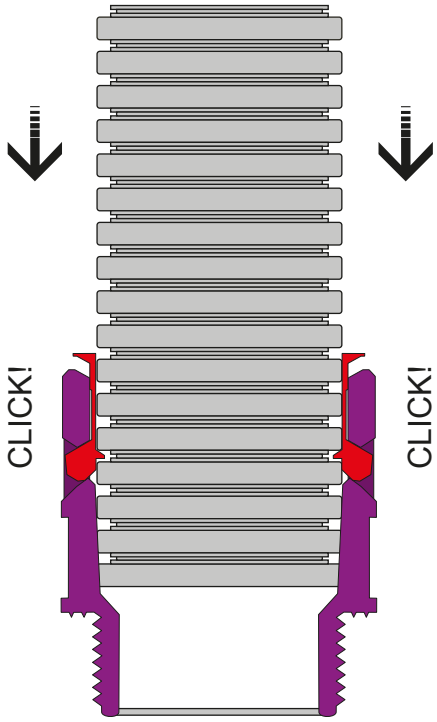
AW M..INX	A	B min	B max	CH
12	9,0	29,0	34,0	16,0
16	9,0	31,0	37,0	20,0
20	10,0	36,0	45,0	24,0
25	10,0	38,0	47,0	29,0
32	12,0	42,0	51,0	36,0
40	12,0	52,0	65,0	46,0
50	14,0	59,0	72,0	55,0
63	15,0	64,0	78,0	68,0

dimensions shown are not binding
and may be changed without notice

Rapid assembly and disassembly, without the use of tools

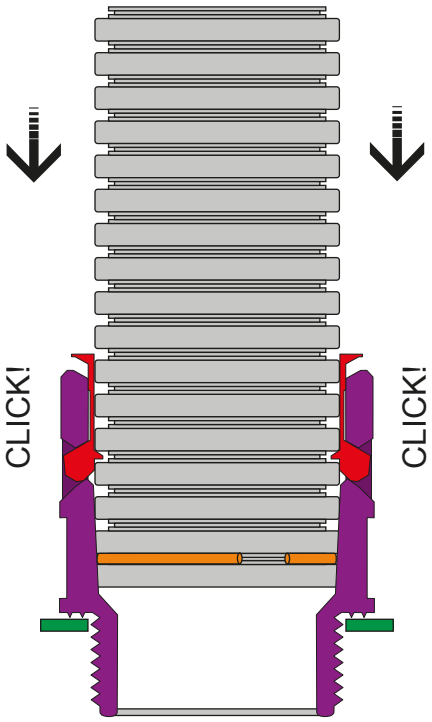
IP66 degree of protection
(according to EN 60529)

Fully insert the cable-guide
into the fitting



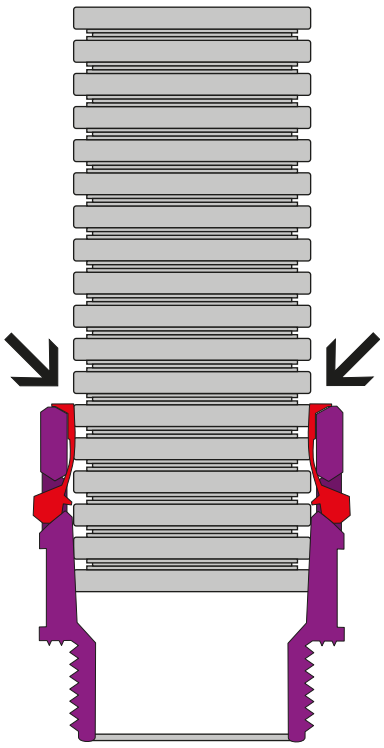
IP68 degree of protection
(according to EN 60529)

- Apply the O-ring gasket (AIR G) in the cable-guide's final section
- Fully insert the cable-guide into the fitting
- Place the gasket (AIR B) between the fitting and the support base



Disassembly

Keep the sealing ring of the fitting
pressed down and rotate to extract the
cable-guide



❶ Flexible, mechanically solid cable-guide with a special section patented for rapid assembly without the use of tools.

❷ Indication, on the fitting, of the nominal diameter of the cable-guide that may be inserted. Assembly without the use of accessories and tools.

❸ 12-sided edge to screw the fitting using a polygonal key.

❹ 6-sided edge to tighten the fitting using a forked key.

❺ Identification of the fitting's threading size.

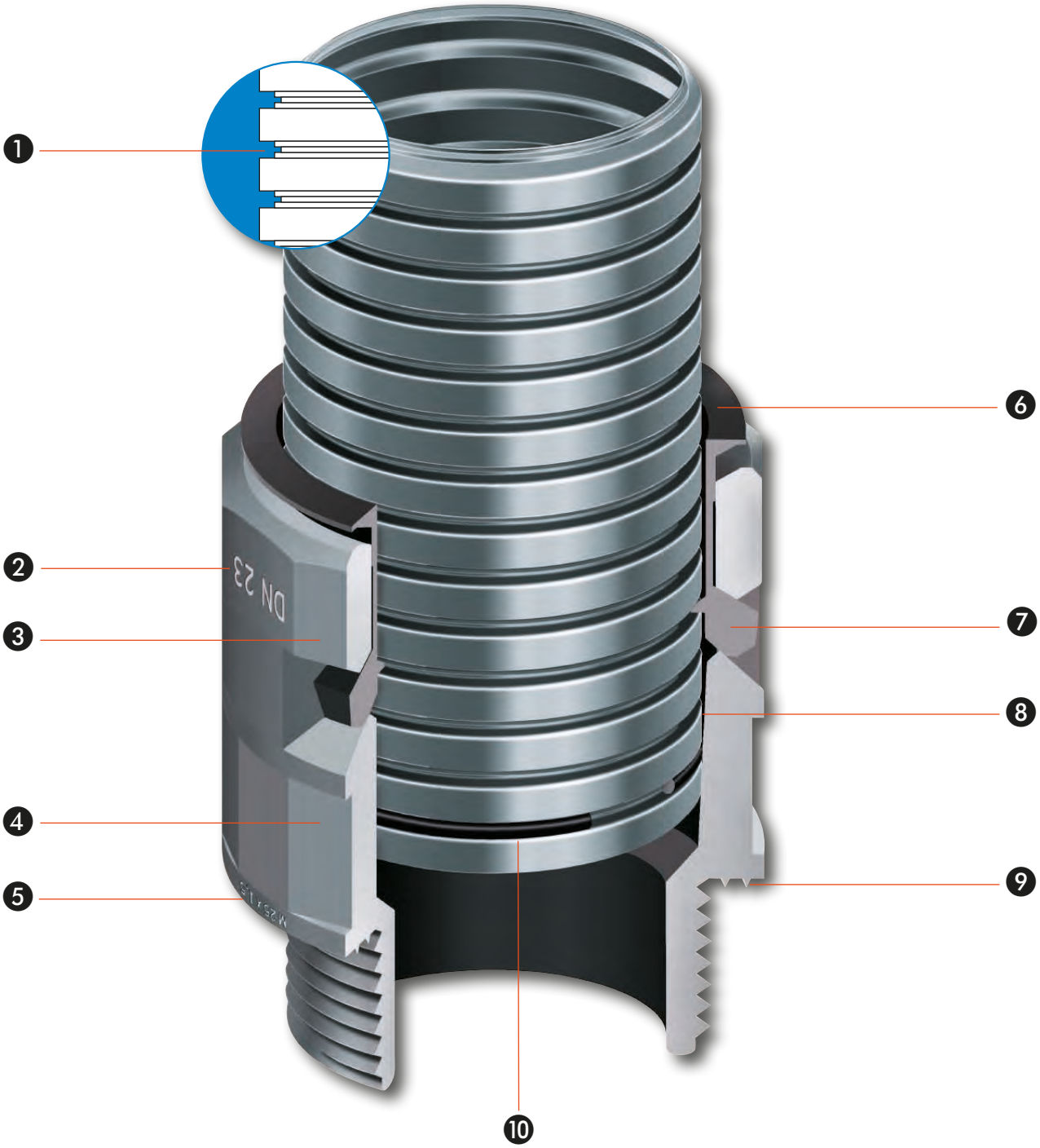
❻ Pressure unblocking device.
The cable-guide may be extracted from the fitting without the use of accessories and tools.

❼ Pull-resistant ring, which works along the entire perimeter of the cable-guide enabling effective discharge resistance.

❽ Fitting with conical internal walls to ensure an IP66 degree of protection (according to EN 60529).

❾ Fitting base formed by circular rings to ensure an IP66 degree of protection (according to EN 60529).

❿ IP68 degree of protection, obtainable by adding an O-ring gasket (AIR G) in the last cable-guide section and a gasket (AIR B) on the support base.

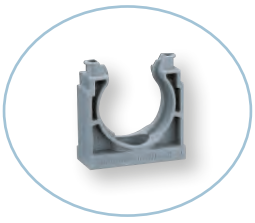


Composition of the part No.: e.g. **AI C 13 V 12 N**

- AI — article series
- C — metric or Pg threading
- 13 — threading size
- V — fitting version
- 12 — flexible tube nominal diameter
- N — black version component

	straight fitting		90° angular fitting	
				
metric	AI C	AI M	AI C	AI M
	11 13 16 21 29 36 48	20 25 32 40 50	11 13 16 21 29 36 48	20 25 32 40 50
	V	V	O	O
	12 17 23 29 36 48	12 17 23 29 36 48	12 17 23 29 36 48	12 17 23 29 36 48
Pg				

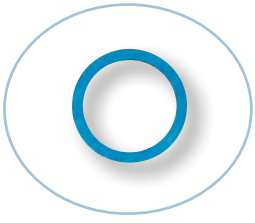
cable-guide support grey



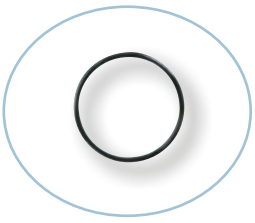
cable-guide support black

steel cable-guide support

gaskets for fitting base



O-ring gaskets for flexible tubes



Technical characteristics of the tubes

flexible tube series	resistance to compression	shock resistance	resistance to traction	temperature limit			self-extinguishing UL 94 classification	resistance to glow-wire in line with IEC 60695 -2-1	certifications
abbrev.				lower	upper	short term			
AIT A..	>250 N	6 J	> 300 N	-40 °C	+105 °C	+150 °C	V2	850 °C	UL
AIT E..	>200 N	2 J	> 300 N	-40 °C	+105 °C	+140 °C	HB	750 °C	

Nominal diameter of the flexible tubes that may be inserted into the fittings (mm)

Pg threading

fitting series	11	13,5	16	21	29	36	48
AI C.. V..	Ø 12	Ø 12-17	Ø 17	Ø 23	Ø 29	Ø 36	Ø 48
AI C.. O..	Ø 12	Ø 17	Ø 17	Ø 23	Ø 29	Ø 36	Ø 48

Metric threading

fitting series	20	25	32	40	50
AI M.. V..	Ø 12-17	Ø 17-23	Ø 23-29	Ø 29-36	Ø 36-48
AI M.. O..	Ø 12-17	Ø 23	Ø 29	Ø 36	Ø 48

AI fittings and flexible tubes

- fitting made of self-extinguishing PA6 polyamide without halogen, phosphorus and cadmium
- IP65 static and IP54 dynamic degree of protection (according to EN 60529)
- for IP68 (static use) or IP67 (dynamic use) degree of protection according to EN 60529, O-ring gaskets and gaskets for fitting base (page 26) shall be required
- temperature range -30 °C / +100 °C
- metric threading according to EN 60423
- Pg threading according to DIN 40430
- insertion and extraction of flexible tubes without the use of tools
- hexagonal base for tightening ease

straight fitting grey

straight fitting black

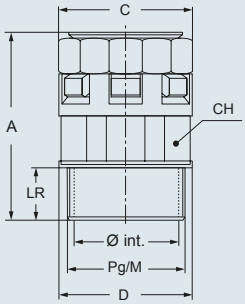
description	part No.	Pg or M threading	part No.	Pg or M threading
- for flexible tubes, nominal Ø 12 *	**AI C11V12**	Pg 11	**AI C11V12N**	Pg 11
- for flexible tubes, nominal Ø 12 *	**AI C13V12**	Pg 13,5	**AI C13V12N**	Pg 13,5
- for flexible tubes, nominal Ø 17 *	**AI C13V17**	Pg 13,5	**AI C13V17N**	Pg 13,5
- for flexible tubes, nominal Ø 17 *	**AI C16V17**	Pg 16	**AI C16V17N**	Pg 16
- for flexible tubes, nominal Ø 23 *	**AI C21V23**	Pg 21	**AI C21V23N**	Pg 21
- for flexible tubes, nominal Ø 29 *	**AI C29V29**	Pg 29	**AI C29V29N**	Pg 29
- for flexible tubes, nominal Ø 36 *	**AI C36V36**	Pg 36	**AI C36V36N**	Pg 36
- for flexible tubes, nominal Ø 48 *	**AI C48V48**	Pg 48	**AI C48V48N**	Pg 48
- for flexible tubes, nominal Ø 12 *	**AI M20V12**	M 20	**AI M20V12N**	M 20
- for flexible tubes, nominal Ø 17 *	**AI M20V17**	M 20	**AI M20V17N**	M 20
- for flexible tubes, nominal Ø 17 *	**AI M25V17**	M 25	**AI M25V17N**	M 25
- for flexible tubes, nominal Ø 23 *	**AI M25V23**	M 25	**AI M25V23N**	M 25
- for flexible tubes, nominal Ø 23 * [1)]	**AI M32V23**	M 32	**AI M32V23N**	M 32
- for flexible tubes, nominal Ø 29 * [1)]	**AI M32V29**	M 32	**AI M32V29N**	M 32
- for flexible tubes, nominal Ø 29 * [1)]	**AI M40V29**	M 40	**AI M40V29N**	M 40
- for flexible tubes, nominal Ø 36 * [1)]	**AI M40V36**	M 40	**AI M40V36N**	M 40
- for flexible tubes, nominal Ø 36 * [1)]	**AI M50V36**	M 50	**AI M50V36N**	M 50
- for flexible tubes, nominal Ø 48 * [1)]	**AI M50V48**	M 50	**AI M50V48N**	M 50

* UL mark with approval from the Underwriters Laboratories

1) for use with:
- lock nuts (page 12)
- multipole connector enclosures CF/MF 6/10/16/24/32/48/50 (new version)
- IP68 high protection multipole connector enclosures
- BIG multipole connector enclosures

dimensions in mm

AI C..V / AI C..V..N - AI M..V / AI M..V..N



part No. grey	part No. black	**Pg**	**Ø int.**	**A**	**C**	**D**	**CH**	**LR**
AI C11V12	**AI C11V12N**	11	14	37,5	26	25,5	20	11
AI C13V12	**AI C13V12N**	13,5	14	37,5	26	25,5	20	11
AI C13V17	**AI C13V17N**	13,5	14	44,5	31	28	27	11,5
AI C16V17	**AI C16V17N**	16	17	44,5	31	29	27	11,5
AI C21V23	**AI C21V23N**	21	22	48,5	37	36,5	34	12,5
AI C29V29	**AI C29V29N**	29	30	49,5	46	46	42	12,5
AI C36V36	**AI C36V36N**	36	37,5	55	54	56	50	14
AI C48V48	**AI C48V48N**	48	50	56	69	69,5	66	14

part No. grey	part No. black	**M**	**Ø int.**	**A**	**C**	**D**	**CH**	**LR**
AI M20V12	**AI M20V12N**	20x1,5	14	37	26	25,5	20	11
AI M20V17	**AI M20V17N**	20x1,5	14,5	44	31	30	27	11
AI M25V17	**AI M25V17N**	25x1,5	18,5	45	31	34	27	12
AI M25V23	**AI M25V23N**	25x1,5	18,5	48	37	37	34	12
AI M32V23	**AI M32V23N**	32x1,5	25,5	51	37	42	34	15
AI M32V29	**AI M32V29N**	32x1,5	25,5	52	46	46	42	15
AI M40V29	**AI M40V29N**	40x1,5	32	56	46	52	42	16
AI M40V36	**AI M40V36N**	40x1,5	32	60	54	54	50	19
AI M50V36	**AI M50V36N**	50x1,5	42	60	54	62	50	19
AI M50V48	**AI M50V48N**	50x1,5	42	61	69	69	66	19

dimensions shown are not binding and may be changed without notice

Al fittings and flexible tubes

- fitting made of self-extinguishing PA6 polyamide
  without halogen, phosphorus and cadmium
- IP65 static and IP54 dynamic degree of protection (according to EN 60529)
- for IP68 (static use) or IP67 (dynamic use) degree of protection according to EN 60529, O-ring gaskets and gaskets for fitting base (page 26) shall be required
- temperature range -30 °C / +100 °C
- metric threading according to EN 60423
- Pg threading according to DIN 40430
- insertion and extraction of flexible tubes without the use of tools
- hexagonal base for tightening ease

90° angular fitting grey

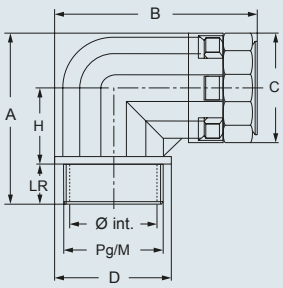
90° angular fitting black

description	part No.	Pg or M threading	part No.	Pg or M threading
- for flexible tubes, nominal Ø 12	**Al C11O12**	Pg 11	**Al C11O12N**	Pg 11
- for flexible tubes, nominal Ø 17	**Al C13O17**	Pg 13,5	**Al C13O17N**	Pg 13,5
- for flexible tubes, nominal Ø 17	**Al C16O17**	Pg 16	**Al C16O17N**	Pg 16
- for flexible tubes, nominal Ø 23	**Al C21O23**	Pg 21	**Al C21O23N**	Pg 21
- for flexible tubes, nominal Ø 29	**Al C29O29**	Pg 29	**Al C29O29N**	Pg 29
- for flexible tubes, nominal Ø 36	**Al C36O36**	Pg 36	**Al C36O36N**	Pg 36
- for flexible tubes, nominal Ø 48	**Al C48O48**	Pg 48	**Al C48O48N**	Pg 48
- for flexible tubes, nominal Ø 12	**Al M20O12**	M 20	**Al M20O12N**	M 20
- for flexible tubes, nominal Ø 17	**Al M20O17**	M 20	**Al M20O17N**	M 20
- for flexible tubes, nominal Ø 23	**Al M25O23**	M 25	**Al M25O23N**	M 25
- for flexible tubes, nominal Ø 29 [1)]	**Al M32O29**	M 32	**Al M32O29N**	M 32
- for flexible tubes, nominal Ø 36 [1)]	**Al M40O36**	M 40	**Al M40O36N**	M 40
- for flexible tubes, nominal Ø 48 [1)]	**Al M50O48**	M 50	**Al M50O48N**	M 50

1) for use with:
- lock nuts (page 12)
- multipole connector enclosures CF/MF 32/48/50
- IP68 high protection multipole connector enclosures
- BIG multipole connector enclosures

dimensions in mm

Al C..O / Al C..O..N - Al M..O / Al M..O..N



part No. grey	part No. black	**Pg**	**Ø int.**	**A**	**B**	**C**	**D**	**CH**	**LR**
Al C11O12	**Al C11O12N**	11	14	39	45	25	25	15	11
Al C13O12	**Al C13O12N**	13,5	14	45	56,5	30	27	18	11,5
Al C16O17	**Al C16O17N**	16	17	45	57,5	30	29	18	11,5
Al C21O23	**Al C21O23N**	21	22	53	65,5	37	36,5	23	12,5
Al C29O29	**Al C29O29N**	29	30	65	76	45	46	28	12,5
Al C36O36	**Al C36O36N**	36	37,5	79	89,5	54	56	33	14
Al C48O48	**Al C48O48N**	48	50	92	103,5	68	69,5	39	14

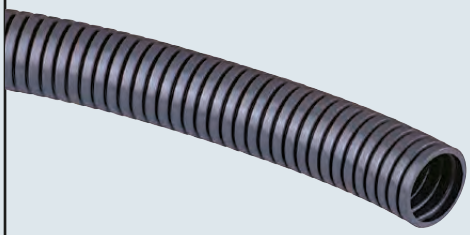
part No. grey	part No. black	**M**	**Ø int.**	**A**	**B**	**C**	**D**	**CH**	**LR**
Al M20O12	**Al M20O12N**	20x1,5	12,3	39	45,5	25	26	15	11
Al M20O17	**Al M20O17N**	20x1,5	14,5	45	58	30	30	18	11
Al M25O23	**Al M25O23N**	25x1,5	18,5	53	66	36,5	37	23	12
Al M32O29	**Al M32O29N**	32x1,5	25,5	66	76	45	46	27	15
Al M40O36	**Al M40O36N**	40x1,5	32	79	89	54	55	33	19
Al M50O48	**Al M50O48N**	50x1,5	42	92	103	68	69	39	19

dimensions shown are not binding
and may be changed without notice

AI fittings and flexible tubes

- fitting made of modified PA6 polyamide without halogen, phosphorus and cadmium
- resistant to UV rays (it is preferable to use the black version in the presence of UV rays)
- self-extinguishing V2 according to UL94
- resistance to 850 °C glow-wire according to IEC 60695-2-1
- temperature range -40 °C / +105 °C (short term: 150 °C)
- does not propagate flames, according to EN 50086-1
- insertion and extraction in the fitting without the use of tools
- ensuring the insulation and mechanical protection of cables

standard flexible tube grey



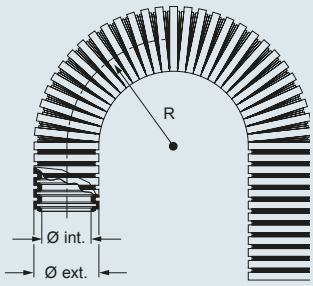
standard flexible tube black

description	part No.	part No.
- nominal Ø 12 *	**AIT A12**	**AIT A12N**
- nominal Ø 17 *	**AIT A17**	**AIT A17N**
- nominal Ø 23 *	**AIT A23**	**AIT A23N**
- nominal Ø 29 *	**AIT A29**	**AIT A29N**
- nominal Ø 36 *	**AIT A36**	**AIT A36N**
- nominal Ø 48 *	**AIT A48**	**AIT A48N**

* UL mark with approval from the Underwriters Laboratories

dimensions in mm

AIT A - AIT A..N



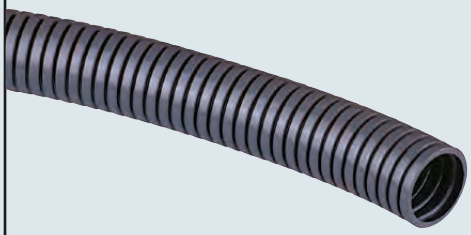
part No. grey	part No. black	**Ø int.**	**Ø ext.**	**R minimum curving radius (static)**	**standard package (m)**
AIT A12	**AIT A12N**	12,2	15,8	30	50
AIT A17	**AIT A17N**	16,8	21,2	40	50
AIT A23	**AIT A23N**	22,6	28,5	55	50
AIT A29	**AIT A29N**	28,3	34,5	65	50
AIT A36	**AIT A36N**	36,3	42,5	80	30
AIT A48	**AIT A48N**	47,4	54,5	95	30

dimensions shown are not binding and may be changed without notice

AI fittings and flexible tubes

- fitting made of modified PA6 polyamide without halogen, phosphorus and cadmium
- self-extinguishing HB according to UL94
- resistance to 750 °C glow-wire according to IEC 60659-2-1
- temperature range -40 °C / +105 °C (short term: 140 °C)
- does not propagate flames according to IEC 50086
- insertion and extraction in the fitting without the use of tools
- ensuring the insulation and mechanical protection of cables

light flexible tube grey

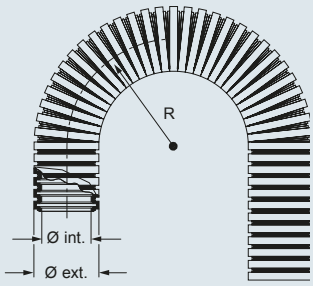


light flexible tube black

description	part No.	part No.
- nominal Ø 12	**AIT E12**	**AIT E12N**
- nominal Ø 17	**AIT E17**	**AIT E17N**
- nominal Ø 23	**AIT E23**	**AIT E23N**
- nominal Ø 29	**AIT E29**	**AIT E29N**
- nominal Ø 36	**AIT E36**	**AIT E36N**
- nominal Ø 48	**AIT E48**	**AIT E48N**

dimensions in mm

AIT E - AIT E..N



part No. grey	part No. black	**Ø int.**	**Ø ext.**	**R minimum curving radius (static)**	**standard package (m)**
AIT E12	**AIT E12N**	12,2	15,8	30	50
AIT E17	**AIT E17N**	16,8	21,2	40	50
AIT E23	**AIT E23N**	22,6	28,5	55	50
AIT E29	**AIT E29N**	28,4	34,5	65	50
AIT E36	**AIT E36N**	36,4	42,5	80	30
AIT E48	**AIT E48N**	47,5	54,5	95	30

dimensions shown are not binding
and may be changed without notice

- made of modified PA6 polyamide
- without halogen, phosphorus and cadmium
- self-extinguishing
- temperature range -30 °C / +100 °C
- shock resistant
- for fixing cable-guides to the wall

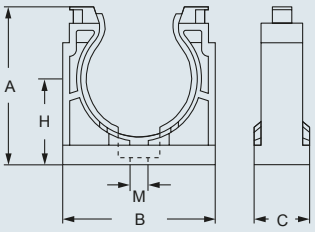
cable-guide support grey

cable-guide support black

description	part No.	part No.
- nominal Ø 12	**AIR D12**	**AIR D12N**
- nominal Ø 17	**AIR D17**	**AIR D17N**
- nominal Ø 23	**AIR D23**	**AIR D23N**
- nominal Ø 29	**AIR D29**	**AIR D29N**
- nominal Ø 36	**AIR D36**	**AIR D36N**
- nominal Ø 48	**AIR D48**	**AIR D48N**

dimensions in mm

AIR D - AIR D..N

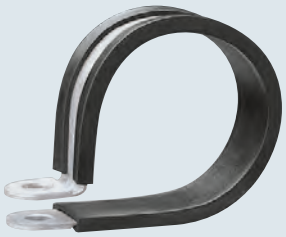


part No. grey	part No. black	**A**	**B**	**C**	**H**	**M**
AIR D12	**AIR D12N**	26,5	25	20	15,5	M 5
AIR D17	**AIR D17N**	32,5	32	20	18,5	M 5
AIR D23	**AIR D23N**	41	40	20	23	M 6
AIR D29	**AIR D29N**	47	46	20	26	M 6
AIR D36	**AIR D36N**	57,5	56	20	32	M 6
AIR D48	**AIR D48N**	70,5	70	20	39	M 6

dimensions shown are not binding
and may be changed without notice

AIR Z:
- made of galvanised steel
- with elastomer protection
- resistant to traction, shock and corrosion
- for fixing cable-guides to the wall

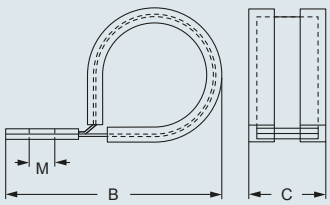
steel cable-guide support



description	part No.
steel supports	
- nominal Ø 12	**AIR Z12**
- nominal Ø 17	**AIR Z17**
- nominal Ø 23	**AIR Z23**
- nominal Ø 29	**AIR Z29**
- nominal Ø 36	**AIR Z36**
- nominal Ø 48	**AIR Z48**

dimensions in mm

AIR Z



part No.	**B**	**C**	**M**
AIR Z12	29	12	M 4
AIR Z17	39	16	M 5
AIR Z23	47	16	M 5
AIR Z29	60	19	M 6
AIR Z36	70	19	M 6
AIR Z48	85	19	M 6

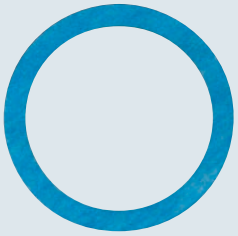
dimensions shown are not binding
and may be changed without notice

AI fittings and flexible tubes

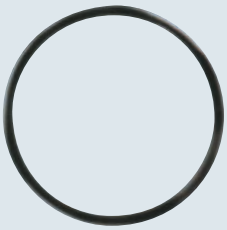
AIR B:
- used between the fitting and a flat surface, it guarantees IP68 degree of protection according to EN 60529
- temperature range -40 °C / +200 °C

AIR G:
- O-ring gasket in NBR 70
- temperature range -30 °C / +100 °C
- inserted in flexible tubes, it guarantees IP68 degree of protection according to EN 60529

gaskets for fitting base



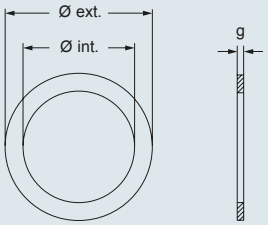
O-ring gaskets for flexible tubes



description	part No.	Pg or M threading	part No.
- for Pg 11 fittings	**AIR B11**	Pg 11	
- for Pg 13,5 fittings	**AIR B13**	Pg 13,5	
- for Pg 16 fittings	**AIR B16**	Pg 16	
- for Pg 21 fittings	**AIR B21**	Pg 21	
- for Pg 29 fittings	**AIR B29**	Pg 29	
- for Pg 36 fittings	**AIR B36**	Pg 36	
- for Pg 48 fittings	**AIR B48**	Pg 48	
- for M 20 fittings	**AIR B20**	M 20	
- for M 25 fittings	**AIR B25**	M 25	
- for M 32 fittings	**AIR B32**	M 32	
- for M 40 fittings	**AIR B40**	M 40	
- for M 50 fittings	**AIR B50**	M 50	
O-ring gasket			
- nominal Ø 12			**AIR G12**
- nominal Ø 17			**AIR G17**
- nominal Ø 23			**AIR G23**
- nominal Ø 29			**AIR G29**
- nominal Ø 36			**AIR G36**
- nominal Ø 48			**AIR G48**

dimensions in mm

AIR B



part No.	**Pg**	**Ø int.**	**Ø ext.**	**g**
AIR B13	11	18,6	26	1,5
AIR B13	13,5	20,4	29	1,5
AIR B16	16	22,5	33	1,5
AIR B21	21	28,3	39	1,5
AIR B29	29	37	49	1,5
AIR B36	36	47	59	1,5
AIR B48	48	59,3	71	1,5

part No.	**M**	**Ø int.**	**Ø ext.**	**g**
AIR B20	20x1,5	20	27	1,5
AIR B25	25x1,5	25	35	1,5
AIR B32	32x1,5	32	43	1,5
AIR B40	40x1,5	40	55	1,5
AIR B50	50x1,5	50	69	1,5

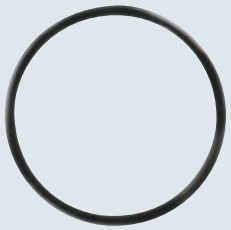
dimensions shown are not binding and may be changed without notice

ASR B:
- used between the fitting and a flat surface, it guarantees IP68 degree of protection according to EN 60529
- temperature range -40 °C / +100 °C

ARG:
- O-ring gasket in NBR
- temperature range -25 °C / +120 °C
- used between the fitting and a flat surface, it guarantees IP68 degree of protection according to EN 60529

gaskets for fitting base

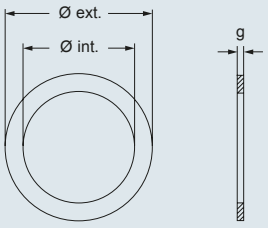
O-ring gaskets



description	part No.	Pg or M threading	part No.	Pg or M threading
- for Pg 11 fittings	**ASR B11**	Pg 11		
- for Pg 13,5 fittings	**ASR B13**	Pg 13,5		
- for Pg 16 fittings	**ASR B16**	Pg 16		
- for Pg 21 fittings	**ASR B21**	Pg 21		
- for Pg 29 fittings	**ASR B29**	Pg 29		
- for Pg 36 fittings	**ASR B36**	Pg 36		
- for Pg 42 fittings	**ASR B42**	Pg 42		
- for M 20 fittings	**ASR B20**	M 20		
- for M 25 fittings	**ASR B25**	M 25		
- for M 32 fittings	**ASR B32**	M 32		
- for M 40 fittings	**ASR B40**	M 40		
- for M 50 fittings	**ASR B50**	M 50		
O-ring gasket - for Pg 11 and M 20 fittings			**ARG 11/20**	Pg 11 - M 20
- for Pg 13,5 fittings			**ARG 13**	Pg 13,5
- for Pg 16 fittings			**ARG 16**	Pg 16
- for Pg 21 fittings			**ARG 21**	Pg 21
- for Pg 29 fittings			**ARG 29**	Pg 29
- for Pg 36 fittings			**ARG 36**	Pg 36
- for Pg 42 fittings			**ARG 42**	Pg 42
O-ring gasket - for M 25 fittings			**ARG 25**	M 25
- for M 32 fittings			**ARG 32**	M 32
- for M 40 fittings			**ARG 40**	M 40
- for M 50 fittings			**ARG 50**	M 50

dimensions in mm

ASR B

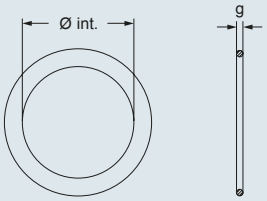


part No.	**Pg**	**Ø int.**	**Ø ext.**	**g**
ASR B11	11	17,1	23	1,2
ASR B13	13,5	19	25	1,2
ASR B16	16	21	27	1,2
ASR B21	21	26,6	34	1,5
ASR B29	29	35,2	45	1,5
ASR B36	36	45,2	56	1,5
ASR B42	42	52,2	67	1,5

part No.	**M**	**Ø int.**	**Ø ext.**	**g**
ASR B20	20	18	24	1,2
ASR B25	25	23	30	1,2
ASR B32	32	30	40	1,5
ASR B40	40	38	48	1,5
ASR B50	50	48	58	1,5

dimensions in mm

ARG



part No.	**Pg**	**Ø int.**	**g**
ARG 11/20	11	17,17	1,78
ARG 13	13,5	18,77	1,78
ARG 16	16	20,35	1,78
ARG 21	21	26,65	2,62
ARG 29	29	36,14	2,62
ARG 36	36	45,69	2,62
ARG 42	42	52,07	2,62

part No.	**M**	**Ø int.**	**g**
ARG 11/20	20	17,17	1,78
ARG 25	25	21,95	1,78
ARG 32	32	29,82	2,62
ARG 40	40	37,77	2,62
ARG 50	50	47,3	2,62

dimensions shown are not binding and may be changed without notice

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