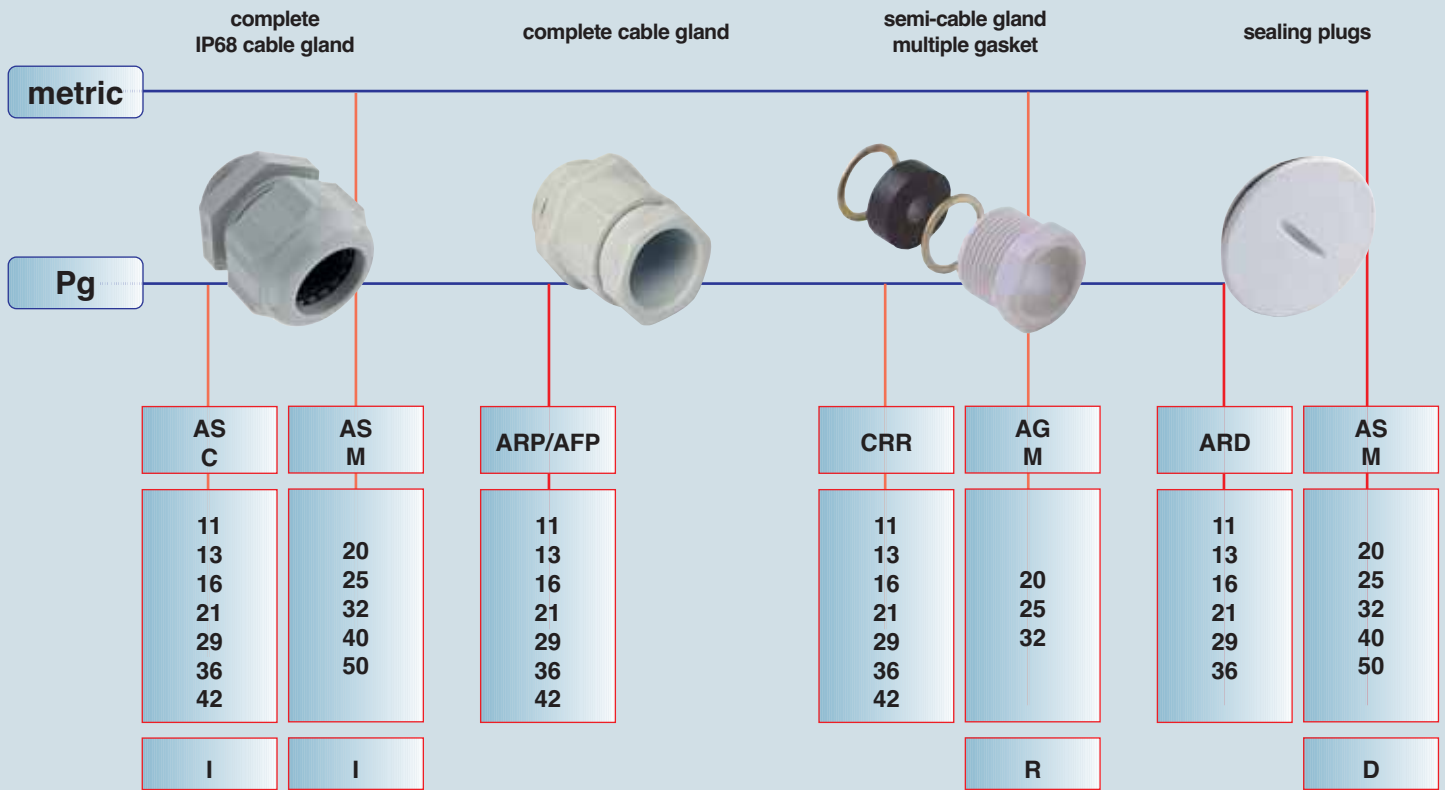


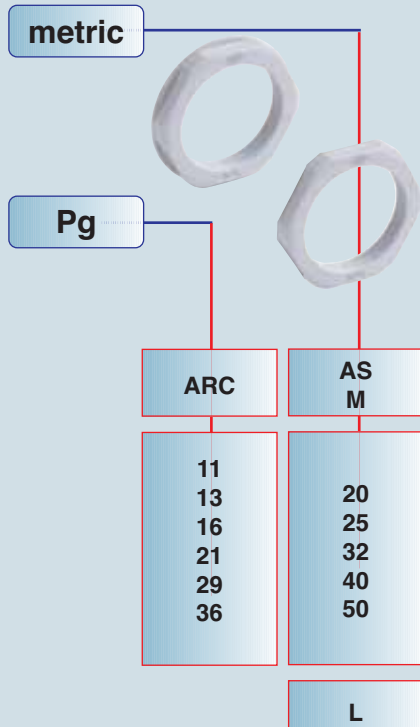
Composition of the part No.: e.g. **AS M 20 I**

part series _____
 metric or Pg threading _____
 threading size _____
 version _____

insulating cable glands



lock nuts



Diameter of cables that may be used with cable glands

Pg threading

Ø in mm	Pg threading							
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			
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	32	40	
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	metric threading				
series	20	25	32	40	50
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		
AG M..T	6-8-10	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	6-8-10	11-14-17	19-21-24		

- IP68 degree of protection (EN 60529)
- temperature range -25 °C / +120 °C
- metric threading according to EN 60423 and EN 50262
- Pg threading according to DIN 40430 and DIN 46320
- anti-aging rubber gaskets
- Pg 36/42 - M40/50 cable glands with cable hold made of thermoplastic material (temperature range -30 °C / +95 °C)

complete cable gland in nickel-plated brass



complete cable gland in nickel-plated brass increased threading length*

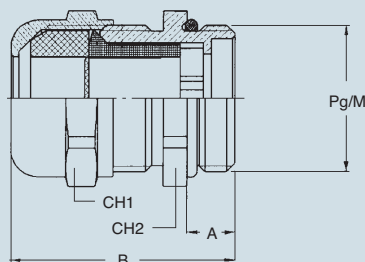


description	part No.	Pg or M threading	part No.	Pg or M threading
- for cable Ø 5 - 10.5 mm	AS C11P	Pg 11	AS C11PH	Pg 11
- for cable Ø 6 - 12.5 mm	AS C13P	Pg 13.5	AS C13PH	Pg 13.5
- for cable Ø 7 - 14.5 mm	AS C16P	Pg 16	AS C16PH	Pg 16
- for cable Ø 10 - 18 mm	AS C21P	Pg 21	AS C21PH	Pg 21
- for cable Ø 14 - 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 6 - 12.5 mm	AS M20P	M 20	AS M20PH	M 20
- for cable Ø 10 - 18 mm	AS M25P	M 25	AS M25PH	M 25
- for cable Ø 14 - 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 8)

dimensions in mm

AS C..P - AS M..P

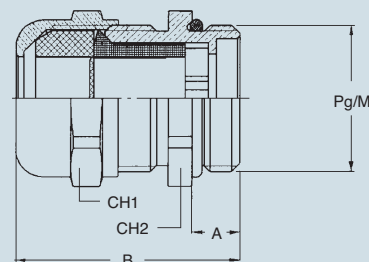


AS C..P	A	B	CH1	CH2
11	6	26	20	20
13	6.5	28	22	22
16	6.5	30	24	24
21	7	35	30	30
29	8	43	40	40
36	9	50	50	50
42	10	57	58	58

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



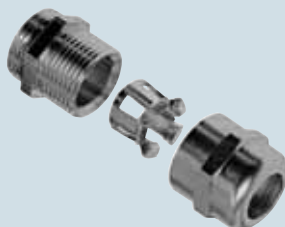
AS C..PH	A	B	CH1	CH2
11	15	35	20	20
13	15	36.5	22	22
16	15	38.5	24	24
21	15	43	30	30
29	15	50	40	40

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 indicated are not binding and may be changed without prior notice.

- IP68 class of protection (EN 60529)
- temperature range -25 °C / +120 °C
- metric threading according to EN 60423 and EN 50262
- Pg threading according to DIN 40430 and DIN 46320
- anti-aging rubber internal gasket
- screening hold system

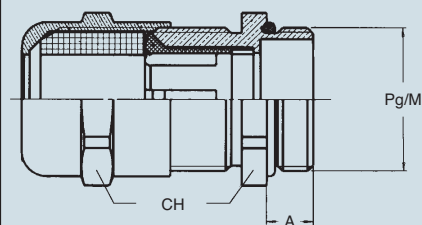
complete EMC cable gland in nickel-plated brass



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 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

dimensions in mm

AS C..E - AS M..E



AS C..E	A	CH
11	6	20
13	6.5	22
16	6.5	24
21	7	30
29	8	40

AS M..E	A	CH
20	7	22
25	8	30
32	8.5	40

Dimensions indicated are not binding and may be changed without prior 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



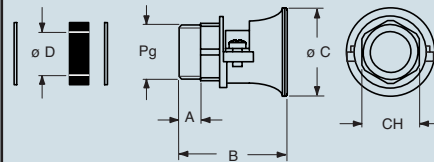
metal cable clamps without collar, gaskets and washers



description	part No.	Pg threading	part No.	Pg threading
- rubber hole Ø 12 mm - rubber hole Ø 14 mm - rubber hole Ø 18 mm - rubber hole Ø 25 mm - rubber hole Ø 32 mm - rubber hole Ø 38 mm	CRS 13.5 CRS 16 CRS 21 CRS 29 CRS 36 CRS 42	13.5 16 21 29 36 42		
without gasket and washer, not coated (order separately) - threading Pg 16 - threading Pg 21			CRS 16 C CRS 21 C	
kit comprising a full gasket and two washers (for cable anchoring CRS..C) - rubber hole Ø 14 mm - rubber hole Ø 18 mm			CRA 16 CRA 21	16 21
kit comprising a multiple gasket and two washers (for cable anchoring CRS..C) - rubber hole Ø 7.5 - 10 - 12.5 - 15 mm - rubber hole Ø 13 - 10 - 16 - 19 mm			CRAC 16 CRAC 21	16 21

dimensions in mm

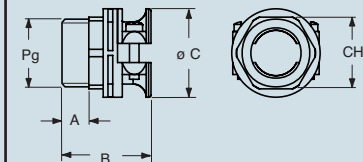
CRS



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

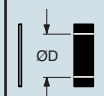
dimensions in mm

CRS..C



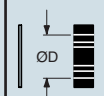
CRS..C	A	B	ø C	CH
16	8	30	30	24
21	10	36	37	30

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 indicated are not binding and may be changed without prior notice.

- 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 50262
- 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



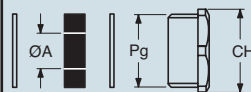
semi-cable gland multiple gasket in nickel-plated brass



description	part No.	Pg threading	part No.	Pg or M threading
- for cable Ø 9	AS C110	11		
- for cable Ø 11	AS C130	13.5		
- for cable Ø 13	AS C160	16		
- for cable Ø 16	AS C210	21		
- for cable Ø 25	AS C290	29		
- for cable Ø 32	AS C360	36		
- for cable Ø 40	AS C420	42		
- 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 6-8-10			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

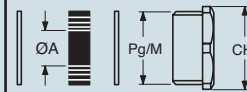
AS C..O



AS C..O	CH	ØA
11	18	9
13.5	20	11
16	22	13
21	28	16
29	37	25
36	47	32
42	54	40

dimensions in mm

AS C..T - AG M..T



AS C..T	CH	ØA
11	18	7.5 - 10
13.5	20	7.5 - 10 - 12.5
16	22	7.5 - 10 - 12.5 - 15
21	28	10 - 13 - 16 - 19
29	37	18 - 21 - 24 - 27
36	47	24 - 27 - 30 - 33
42	54	30 - 33 - 36 - 39

AG M..T	CH	ØA
20	20	6 - 8 - 10
25	25	11 - 14 - 17
32	32	19 - 21 - 24
40	40	26 - 29 - 32
50	50	35 - 38 - 41

Dimensions indicated are not binding and may be changed without prior notice.

- IP68 degree of protection (EN 60529)
- metric threading according to EN 60423 and EN 50262
- Pg threading according to DIN 40430 and DIN 46320
- anti-aging rubber O-ring gasket

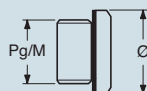
sealing plug in nickel-plated brass



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
11	20
13.5	22
16	24
21	30
29	39
36	50
42	57

AS M..B	Ø
20	22
25	27
32	34
40	44
50	54

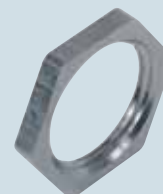
Dimensions indicated are not binding and may be changed without prior notice.

- metric threading according to EN 60423 and EN 50262
- 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 - male Pg 13.5 / female Pg 16 threading - male Pg 16 / female Pg 21 threading - male Pg 21 / female Pg 29 threading - male Pg 29 / female Pg 36 threading - male Pg 36 / female Pg 42 threading - male Pg 42 / female Pg 48 threading	AS C11C AS C13C AS C16C AS C21C AS C29C AS C36C AS C42C		
- male M 20 / female M 25 threading - male M 25 / female M 32 threading - male M 32 / female M 40 threading - male M 40 / female M 50 threading - male M 50 / female M 63 threading	AS M20N AS M25C AS M32C AS M40C AS M50C		
- for Pg 11 threading - for Pg 13.5 threading - for Pg 16 threading - for Pg 21 threading - for Pg 29 threading - for Pg 36 threading - for Pg 42 threading - for Pg 48 threading		AS C11N AS C13N AS C16N AS C21N AS C29N AS C36N AS C42N AS C48N	Pg 11 Pg 13.5 Pg 16 Pg 21 Pg 29 Pg 36 Pg 42 Pg 48
- for M 20 threading - for M 25 threading - for M 32 threading - for M 40 threading - for M 50 threading		AS M20N AS M25N AS M32N AS M40N AS M50N	M 20 M 25 M 32 M 40 M 50

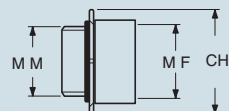
dimensions in mm

AS C..C



AS C..C	Pg M	Pg F
11	11	13.5
13	13.5	16
16	16	21
21	21	29
29	29	36
36	36	42
42	42	48

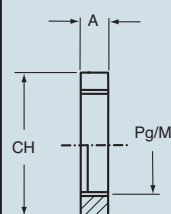
AS M..C



AS M..C	M M	M F	CH
20	20	25	28
25	25	32	36
32	32	40	42
40	40	50	52
50	50	63	65

dimensions in mm

AS C..N - AS M..N



AS C..N	A	CH
11	3.1	21
13	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 indicated are not binding and may be changed without prior notice.

AS-AR-AF insulating cable glands



- AS..I IP68 degree of protection (EN 60529)
- ARP/AFP IP67 degree of protection (EN 60529)
- temperature range -25 °C / +100 °C
- metric threading according to EN 60423 and EN 50262
- 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
- UL, VDE, CSA approval

complete insulating cable gland



complete insulating cable gland

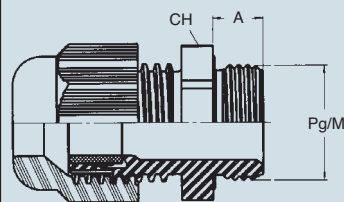


description	part No.	Pg or M threading	part No.	Pg threading
- for cable Ø 3.5 - 10 mm	AS C11I	grey Pg 11		
- for cable Ø 3.5 - 10 mm	AS C11IN	black Pg 11		
- for cable Ø 5 - 12 mm	AS C13I	Pg 13.5		
- for cable Ø 7 - 14 mm	AS C16I	Pg 16		
- for cable Ø 9 - 18 mm	AS C21I	Pg 21		
- for cable Ø 14 - 25 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	ARP 11	11
- for cable Ø 5 - 12.5 mm	AS M20IN	black M 20	ARP 13	13.5
- for cable Ø 9 - 18 mm	AS M25I	M 25	AFP 16	16
- for cable Ø 14 - 25 mm	AS M32I	M 32	AFP 21	21
- for cable Ø 18 - 32 mm*	AS M40I	M 40	AFP 29	29
- for cable Ø 24 - 38.5 mm*	AS M50I	M 50	AFP 36	36
			ARP 42	42
			ARP 48	48

- *for use with
- lock nuts in thermoplastic material (page 11)
- multipole connector enclosures CF/MF 32/48/50
- IP68 high protection multipole connector enclosures

dimensions in mm

AS C..I - AS M..I

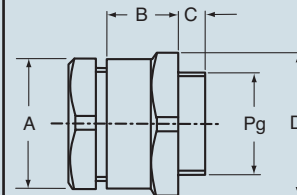


AS C..I	A	CH
11	8	22
13	9	24
16	10	27
21	11	33
29	11	42
36	13	53
42	13	60

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 13.5	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 indicated are not binding and may be changed without prior notice.

- IP65 degree of protection (EN 60529) for use with connector enclosures
- metric threading according to EN 60423 and EN 50262
- Pg threading according to DIN 40430 and DIN 46320
- anti-aging rubber gasket
- washers in zinc-plated steel

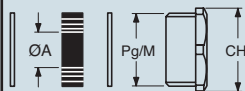
semi-cable gland with multiple gasket in insulating material



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 6-8-10	AG M20R	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	ØA
11	19	7.5 - 10 - 12.5
11 N	19	7.5 - 10 - 12.5
13.5	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	ØA
20	21	6 - 8 - 10
25	26	11 - 14 - 17
32	34	19 - 21 - 24

Dimensions indicated are not binding and may be changed without prior notice.

AR-AS insulating cable glands



- in thermoplastic material
- anti-aging rubber gasket
- metric threading according to EN 60423 and EN 50262
- Pg threading according to DIN 40430 and DIN 46320

insulating sealing plugs



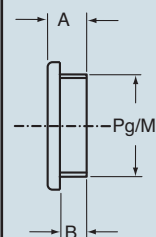
lock nuts



description	part No.	Pg or M threading	part No.	Pg or M threading
- for Pg 11 threading - for Pg 13.5 threading - for Pg 16 threading - for Pg 21 threading - for Pg 29 threading - for Pg 36 threading - for Pg 48 threading	ARD 11 ARD 13 ARD 16 ARD 21 ARD 29 ARD 36 ARD 48	Pg 11 Pg 13.5 Pg 16 Pg 21 Pg 29 Pg 36 Pg 48	ARC 11 ARC 13 ARC 16 ARC 21 ARC 29 ARC 36 ARC 48	Pg 11 Pg 13.5 Pg 16 Pg 21 Pg 29 Pg 36 Pg 48
- for M 20 threading - for M 25 threading - for M 32 threading - for M 40 threading - for M 50 threading	AS M20D AS M25D AS M32D AS M40D AS M50D	M 20 M 25 M 32 M 40 M 50	AS M20L AS M25L AS M32L AS M40L AS M50L	M 20 M 25 M 32 M 40 M 50
- for Pg 11 threading - for Pg 13.5 threading - for Pg 16 threading - for Pg 21 threading - for Pg 29 threading - for Pg 36 threading - for Pg 48 threading				
- for M 20 threading - for M 25 threading - for M 32 threading - for M 40 threading - for M 50 threading				

dimensions in mm

ARD - AS M..D

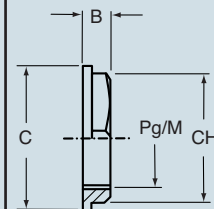


part No.	A	B
ARD 11	7.5	6
ARD 13.5	7.5	6
ARD 16	7.5	6
ARD 21	10	8
ARD 29	10	8
ARD 36	12	10
ARD 48	14	12

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

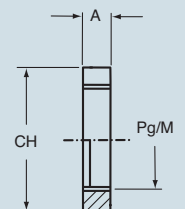
dimensions in mm

ARC



part No.	CH	B	C
ARC 11	24	5	26
ARC 13.5	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

AS M..L



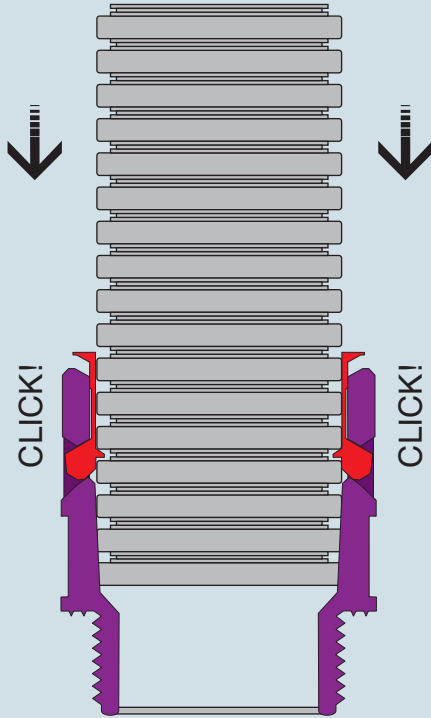
part No.	CH	A
AS M20L	24	5
AS M25L	30	6
AS M32L	38	7.5
AS M40L	50	8
AS M50L	60	9

Dimensions indicated are not binding and may be changed without prior notice.

Rapid assembly and disassembly, without the use of tools

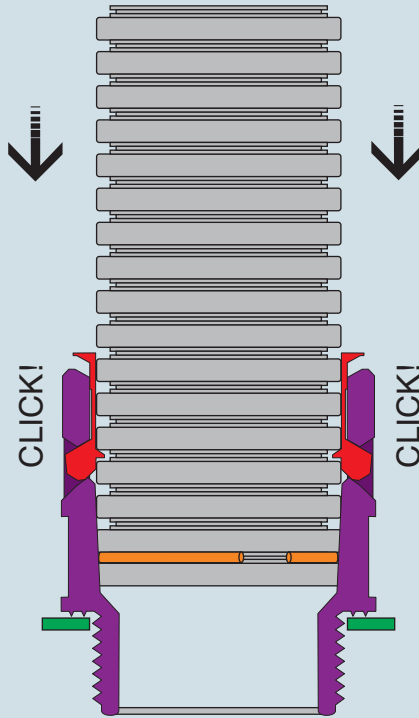
IP66 degree of protection
(according to EN 60529)

Fully insert the cable-guide into the fitting



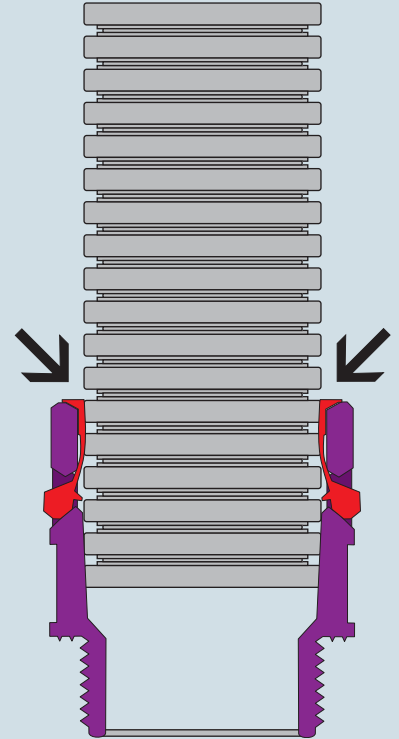
IP68 degree of protection
(according to EN 60529)

- 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



IP degree of protection according to standard EN 60529

1st Digit

Protection of people against contact with hazardous parts

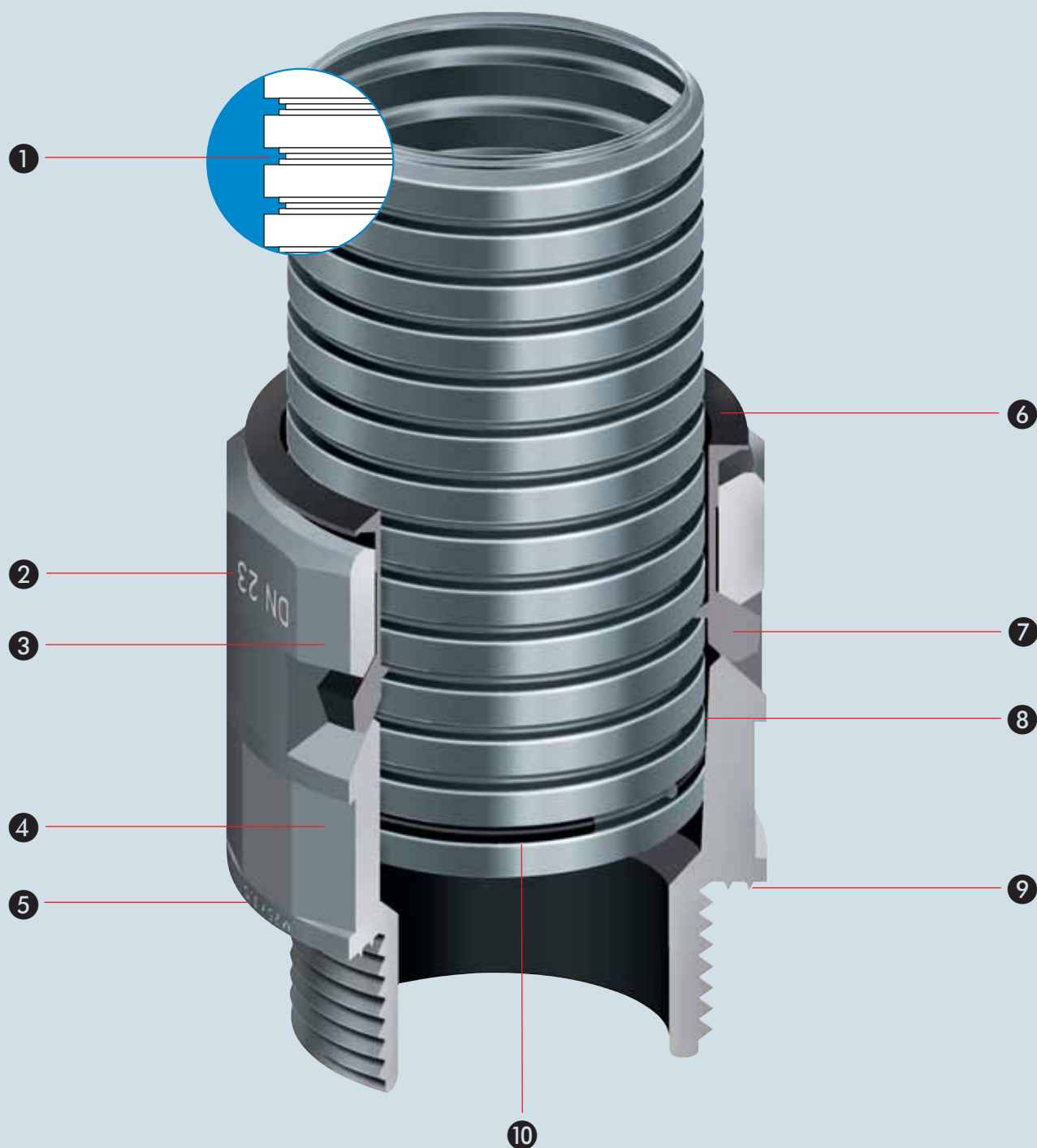
IP	External solid foreign bodies	Protection
0		none
1		against solid foreign bodies with Ø greater than 50 mm (e.g. hand)
2		against solid foreign bodies with Ø greater than 12 mm (e.g. finger)
3		against solid foreign bodies with Ø greater than 2.5 mm (e.g. tools and wires)
4		against solid foreign bodies with Ø greater than 1 mm (e.g. fine tools and wires)
5		dust-protected (no harmful deposit)
6		dust-tight

2nd Digit

Protection of materials against harmful penetration of water

IP	Tests	Protection
0		none
1		against vertical drops of water
2		against drops of water at an angle of 15° compared to the vertical direction
3		against drops of water at an angle of 60° compared to the vertical direction
4		against splashes of water from all directions
5		against jets of water from all directions
6		against powerful jets of water (such as sea waves)
7		against the effect of temporary immersion in water at a maximum depth of 1 metre
8		against the effect of continuous immersion in water

- 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.



overview of fittings for flexible tubes



Composition of the part No.: e.g. **AI C 13 V12 N**

article series _____
 Pg or metric threading _____
 threading size _____
 fitting version _____
 flexible tube nominal diameter _____
 black version component _____

	straight fitting		90° angular fitting		90° curved fitting		straight fitting metal threading
metric							
Pg							
	AI C	AI M	AI C	AI M	AI C	AI M	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	16 21 29 36 48	25 32 40 50	20 25 32 40 50
	V	V	O	O	F	F	X
	12 17 23 29 36 48	12 17 23 29 36 48	12 17 23 29 36 48	12 17 23 29 36 48	17 23 29 36 48	17 23 29 36	12 17 23 29 36 48

45° grey fitting

	AI C	AI M
metric		
Pg		
	11 16 21 29 36 48	20 25 32 40 50
	Q	Q
	12 17 23 29 36 48	17 23 29 36 48



overview of flexible tubes and fittings



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
				lower	upper	short term			
abbrev.									
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	
AIT S..	>350 N	6 J	> 300 N	-40 °C	+105 °C	+150 °C	V2	850 °C	UL
AIT P..	>600 N	20 J	> 500 N	-40 °C	+105 °C	+150 °C	V2	960 °C	
AIT R..	>200 N	6 J	> 250 N	-50 °C	+90 °C	+140 °C	HB	750 °C	

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

fitting series	Pg threading						
	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
AI C.. F..			Ø 17	Ø 23	Ø 29	Ø 36	Ø 48
AI C.. Q..	Ø 12		Ø 17	Ø 23	Ø 29	Ø 36	Ø 48

fitting series	metric threading				
	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 M.. F..		Ø 17	Ø 23	Ø 29	Ø 36
AI M.. X..	Ø 12-17	Ø 17-23	Ø 23-29	Ø 29-36	Ø 36-48
AI M.. Q..	Ø 17	Ø 23	Ø 29	Ø 36	Ø 48

- = resistant
- = limited resistance
- X = not resistant

flexible tube series
AIT A..
AIT E..
AIT S..
AIT P..

- = resistant
- = limited resistance
- X = not resistant

flexible tube series
AIT A..
AIT E..
AIT S..
AIT P..

thermoplastic material	PA6	PA12
Oil ASTM N.1, 20 °C	●	○
Oil ASTM N.2, 20 °C	●	●
Oil ASTM N.3, 20 °C	●	●
Lubricating oil	●	●
Vegetable oil	●	●
Transformer oil	●	●
Silicone oil	●	●
Mineral oil	●	●
Blending oil	●	●
Ethylene acetate	●	●
Acetamide, 50% aqueous solution	●	●
Acetone	●	●
Acetic acid, 10% aqueous solution	X	○
Boric acid, 10% aqueous solution	○	●
Butyric acid	○	●
Hydrochloric acid <2% aqueous solution	X	○
Chromic acid, 1% aqueous solution	X	○
Formic acid, 10% aqueous solution	X	X
Phosphoric acid, 10% aqueous solution	X	○
Lactic acid, 5% aqueous solution	○	●
Nitric acid, totally concentrated	X	X
Sulphuric acid, 2% aqueous solution	X	○
Tartaric acid, 10% aqueous solution	●	●
Fatty acids	●	●
Sea water	●	●
Oil of turpentine	●	●
Ethanol	●	●
Methanol	●	○
Aqueous starch	●	●
Ammonia, 10% aqueous solution	●	●
Aniline dye	○	○
Benzene	●	●
Gaseous butane	●	●
Beer	●	●
Potassium cyanide, 5% aqueous solution	●	●

thermoplastic material	PA6	PA12
Calcium chloride, 10% aqueous solution	○	●
Ferric chloride, 10% aqueous solution	X	X
Potassium chloride, 5% aqueous solution	○	●
Sodium chloride	●	●
Spark erosion liquids	●	●
Ether	●	●
Fuel oil	●	●
Gas oil	●	●
Petrol	●	●
Ethylene or propylene glycol	●	●
Glycerol	●	●
Diluted glucose	●	●
Magnesium hydroxide, 10% aqueous solution	●	●
Fruit juices	●	●
Methyl ethyl ketone	●	●
Urine	●	●
Ozone (gaseous), all concentrations	X	X
Perchloroethylene	●	●
Petroleum	●	●
Potassium hydroxide, 50% aqueous solution	●	●
Propane (gaseous)	●	●
Common salt, aqueous solution, all concentrations	●	●
Tallow	●	●
Liquid soap	●	●
Caustic soda, 40% aqueous solution	●	●
Copper sulfate, 10% aqueous solution	○	●
Carbon disulfide	●	●
Drilling oil	●	●
Carbon tetrachloride	●	●
Toluene	●	●
Trichloroethylene	○	○
Wine vinegar	○	●
Xylene	●	●
White spirit (isopropanol+ethanol)	●	●



- fitting made of self-extinguishing PA6 polyamide without halogen, phosphorus and cadmium
- IP66 static and IP54 dynamic degree of protection (according to EN 60529)
- O-ring gasket for IP68 static or IP67 dynamic degree of protection (according to EN 60529) page 30
- 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
- resistant to traction, shock and chemical agents (page 15)
- hexagonal base for tightening ease

* UL mark with approval from the Underwriters Laboratories

straight fitting grey



straight fitting black

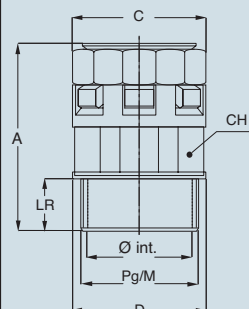


description	part No.	Pg or M threading	part No.	Pg or M threading
- for flexible tubes, nominal Ø 12 *	AI C11V12	Pg 11	AI C11V12N	Pg 11
- for flexible tubes, nominal Ø 12 *	AI C13V12	Pg 13.5	AI C13V12N	Pg 13.5
- for flexible tubes, nominal Ø 17 *	AI C13V17	Pg 13.5	AI C13V17N	Pg 13.5
- for flexible tubes, 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

- 1) for use with
- lock nuts (page 11)
 - multipole connector enclosures CF/MF 32/48/50
 - IP68 high protection multipole connector enclosures

dimensions in mm

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



part No.	part No.	Pg	Ø int.	A	C	D	CH	LR
grey	black							
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.	part No.	M	Ø int.	A	C	D	CH	LR
grey	black							
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 indicated are not binding and may be changed without notice

- fitting made of self-extinguishing PA6 polyamide without halogen, phosphorus and cadmium
- IP66 static and IP54 dynamic degree of protection (according to EN 60529)
- O-ring gasket for IP68 static and IP67 dynamic degree of protection (according to EN 60529) page 30
- 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
- resistant to traction, shock and chemical agents (page 15)
- hexagonal base for tightening ease

90° angular fitting grey



90° angular fitting black

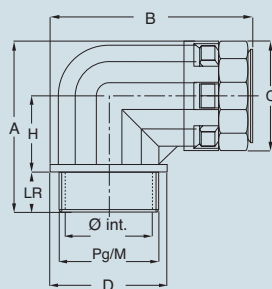


description	part No.	Pg or M threading	part No.	Pg or M threading
- for flexible tubes, nominal Ø 12	AI C11O12	Pg 11	AI C11O12N	Pg 11
- for flexible tubes, nominal Ø 17	AI C13O17	Pg 13.5	AI C13O17N	Pg 13.5
- for flexible tubes, nominal Ø 17	AI C16O17	Pg 16	AI C16O17N	Pg 16
- for flexible tubes, nominal Ø 23	AI C21O23	Pg 21	AI C21O23N	Pg 21
- for flexible tubes, nominal Ø 29	AI C29O29	Pg 29	AI C29O29N	Pg 29
- for flexible tubes, nominal Ø 36	AI C36O36	Pg 36	AI C36O36N	Pg 36
- for flexible tubes, nominal Ø 48	AI C48O48	Pg 48	AI C48O48N	Pg 48
- for flexible tubes, nominal Ø 12	AI M20O12	M 20	AI M20O12N	M 20
- for flexible tubes, nominal Ø 17	AI M20O17	M 20	AI M20O17N	M 20
- for flexible tubes, nominal Ø 23	AI M25O23	M 25	AI M25O23N	M 25
- for flexible tubes, nominal Ø 29 ¹⁾	AI M32O29	M 32	AI M32O29N	M 32
- for flexible tubes, nominal Ø 36 ¹⁾	AI M40O36	M 40	AI M40O36N	M 40
- for flexible tubes, nominal Ø 48 ¹⁾	AI M50O48	M 50	AI M50O48N	M 50

- 1) for use with
- lock nuts (page 11)
 - multipole connector enclosures CF/MF 32/48/50
 - IP68 high protection multipole connector enclosures

dimensions in mm

AI C..O / AI C..O..N - AI M..O / AI M..O..N



part No.	part No.	Pg	Ø int.	A	B	C	D	H	LR
grey									
black									
AI C11O12	AI C11O12N	11	14	39	45	25	25	15	11
AI C13O12	AI C13O12N	13.5	14	45	56.5	30	27	18	11.5
AI C16O17	AI C16O17N	16	17	45	57.5	30	29	18	11.5
AI C21O23	AI C21O23N	21	22	53	65.5	37	36.5	23	12.5
AI C29O29	AI C29O29N	29	30	65	76	45	46	28	12.5
AI C36O36	AI C36O36N	36	37.5	79	89.5	54	56	33	14
AI C48O48	AI C48O48N	48	50	92	103.5	68	69.5	39	14

part No.	part No.	M	Ø int.	A	B	C	D	CH	LR
grey									
black									
AI M20O12	AI M20O12N	20x1.5	12.3	39	45.5	25	26	15	11
AI M20O17	AI M20O17N	20x1.5	14.5	45	58	30	30	18	11
AI M25O23	AI M25O23N	25x1.5	18.5	53	66	36.5	37	23	12
AI M32O29	AI M32O29N	32x1.5	25.5	66	76	45	46	27	15
AI M40O36	AI M40O36N	40x1.5	32	79	89	54	55	33	19
AI M50O48	AI M50O48N	50x1.5	42	92	103	68	69	39	19

dimensions indicated are not binding and may be changed without notice

- fitting made of self-extinguishing PA6 polyamide without halogen, phosphorus and cadmium
- IP66 static and IP54 dynamic degree of protection (according to EN 60529)
- O-ring gasket for IP68 static and IP67 dynamic degree of protection (according to EN 60529) page 30
- 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
- resistant to traction, shock and chemical agents (page 15)
- hexagonal base for tightening ease

90° curved grey fitting



90° curved black fitting

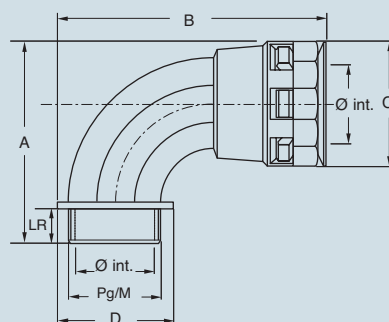


description	part No.	Pg or M threading	part No.	Pg or M threading
- for flexible tubes, nominal Ø 17	AI C16F17	Pg 16	AI C16F17N	Pg 16
- for flexible tubes, nominal Ø 23	AI C21F23	Pg 21	AI C21F23N	Pg 21
- for flexible tubes, nominal Ø 29	AI C29F29	Pg 29	AI C29F29N	Pg 29
- for flexible tubes, nominal Ø 36	AI C36F36	Pg 36	AI C36F36N	Pg 36
- for flexible tubes, nominal Ø 48	AI C48F48	Pg 48	AI C48F48N	Pg 48
- for flexible tubes, nominal Ø 17	AI M25F17	M 25	AI M25F17N	M 25
- for flexible tubes, nominal Ø 23 * 1)	AI M32F23	M 32	AI M32F23N	M 32
- for flexible tubes, nominal Ø 29 * 1)	AI M40F29	M 40	AI M40F29N	M 40
- for flexible tubes, nominal Ø 36 * 1)	AI M50F36	M 50	AI M50F36N	M 50

- 1) for use with
- lock nuts (page 11)
 - multipole connector enclosures CF/MF 32/48/50
 - IP68 high protection multipole connector enclosures

dimensions in mm

AI C..F / AI C..F.N - AI M..F / AI M..F.N



part No.	part No.	Pg	Ø int.	A	B	C	D	LR
grey black								
AI C16F17	AI C16F17N	16	14.7	51	72	28	30	11.5
AI C21F23	AI C21F23N	21	18.5	65	84	36	36	11
AI C29F29	AI C29F29N	29	25.5	74	99	43	46	13
AI C36F36	AI C36F36N	36	32	92	120	51	56	13
AI C48F48	AI C48F48N	48	42	102	135	66	69	13
grey black								
AI M25F17	AI M25F17N	25x1.5	17.5	52	75	28	34	12
AI M32F23	AI M32F23N	32x1.5	25.7	69	89	36	40	15
AI M40F29	AI M40F29N	40x1.5	32.5	81	101	43	50	19
AI M50F36	AI M50F36N	50x1.5	40	98	124	51	60	19

dimensions indicated are not binding and may be changed without notice

- fitting made of self-extinguishing PA6 polyamide without halogen, phosphorus and cadmium
- IP66 static and IP54 dynamic degree of protection (according to EN 60529)
- O-ring gasket for IP68 static and IP67 dynamic degree of protection (according to EN 60529) page 30
- 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
- resistant to traction, shock and chemical agents (page 15)
- hexagonal base for tightening ease

45° fitting grey



45° fitting black

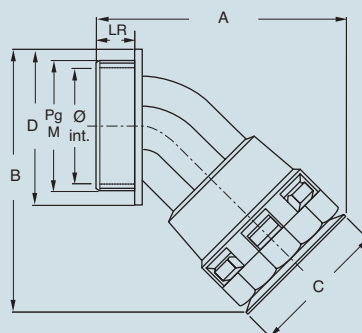


description	part No.	Pg or M threading	part No.	Pg or M threading
- for flexible tubes, nominal Ø 12	AI C11Q12	Pg 11	AI C11Q12N	Pg 11
- for flexible tubes, nominal Ø 17	AI C16Q17	Pg 16	AI C16Q17N	Pg 16
- for flexible tubes, nominal Ø 23	AI C21Q23	Pg 21	AI C21Q23N	Pg 21
- for flexible tubes, nominal Ø 29	AI C29Q29	Pg 29	AI C29Q29N	Pg 29
- for flexible tubes, nominal Ø 36	AI C36Q36	Pg 36	AI C36Q36N	Pg 36
- for flexible tubes, nominal Ø 48	AI C48Q48	Pg 48	AI C48Q48N	Pg 48
- for flexible tubes, nominal Ø 17	AI M20Q17	M 20	AI M20Q17N	M 20
- for flexible tubes, nominal Ø 23 ¹⁾	AI M25Q23	M 25	AI M25Q23N	M 25
- for flexible tubes, nominal Ø 29 ¹⁾	AI M32Q29	M 32	AI M32Q29N	M 32
- for flexible tubes, nominal Ø 36 ¹⁾	AI M40Q36	M 40	AI M40Q36N	M 40
- for flexible tubes, nominal Ø 48 ¹⁾	AI M50Q48	M 50	AI M50Q48N	M 50

- 1) for use with
- lock nuts (page 11)
 - multipole connector enclosures CF/MF 32/48/50
 - IP68 high protection multipole connector enclosures

dimensions in mm

AI C..Q / AI C..Q..N - AI M..Q / AI M..Q..N



part No.	part No.	Pg	Ø int.	A	B	C	D	LR
grey black								
AI C11Q12	AI C11Q12N	11	11.5	50	47	24	26	11
AI C16Q17	AI C16Q17N	16	14.7	60	58	29	30	11
AI C21Q23	AI C21Q23N	21	18.5	69	69	37	37	11
AI C29Q29	AI C29Q29N	29	25.5	78	79	45	46	12
AI C36Q36	AI C36Q36N	36	32	90	94	53	56	13
AI C48Q48	AI C48Q48N	48	42	102	112	67	69	13
grey black								
AI M20Q17	AI M20Q17N	20x1.5	11.5	60	56	29	27	11
AI M25Q23	AI M25Q23N	25x1.5	18.5	70	67	37	34	12
AI M32Q29	AI M32Q29N	32x1.5	25.7	80	76	45	41	15
AI M40Q36	AI M40Q36N	40x1.5	32	96	90	53	50	19
AI M50Q48	AI M50Q48N	50x1.5	42	109	106	67	60	19

dimensions indicated are not binding and may be changed without notice

- fitting made of self-extinguishing PA6 polyamide without halogen, phosphorus and cadmium
- IP66 static and IP54 dynamic degree of protection (according to EN 60529)
- O-ring gasket for IP68 static and IP67 dynamic degree of protection (according to EN 60529) page 30
- temperature range -30 °C / +100 °C
- metric threading according to EN 60423
- insertion and extraction of flexible tubes without the use of tools
- resistant to traction, shock and chemical agents (page 15)
- hexagonal base for tightening ease

straight fitting with metal threading grey



straight fitting with metal threading black

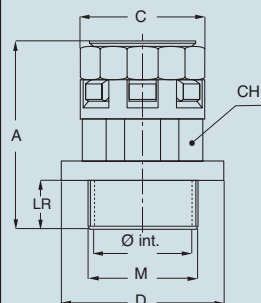


description	part No.	M Threading	part No.	M Threading
- for flexible tubes, nominal Ø 12	AI M20X12	20	AI M20X12N	20
- for flexible tubes, nominal Ø 17	AI M20X17	20	AI M20X17N	20
- for flexible tubes, nominal Ø 17 ¹⁾	AI M25X17	25	AI M25X17N	25
- for flexible tubes, nominal Ø 23 ¹⁾	AI M25X23	25	AI M25X23N	25
- for flexible tubes, nominal Ø 23 ¹⁾	AI M32X23	32	AI M32X23N	32
- for flexible tubes, nominal Ø 29 ¹⁾	AI M32X29	32	AI M32X29N	32
- for flexible tubes, nominal Ø 29 * ¹⁾	AI M40X29	40	AI M40X29N	40
- for flexible tubes, nominal Ø 36 ¹⁾	AI M40X36	40	AI M40X36N	40
- for flexible tubes, nominal Ø 36 ¹⁾	AI M50X36	50	AI M50X36N	50
- for flexible tubes, nominal Ø 48 ¹⁾	AI M50X48	50	AI M50X48N	50

- 1) for use with
- lock nuts (page 11)
 - multipole connector enclosures CF/MF 32/48/50
 - IP68 high protection multipole connector enclosures

dimensions in mm

AI M..X - AI M..X..N



part No.	part No.	M	Ø int.	A	C	D	CH	LR
grey								
AI M20X12	AI M20X12N	20x1.5	14	41	25	29	20	10
AI M20X17	AI M20X17N	20x1.5	14.5	47	31	29	27	10
AI M25X17	AI M25X17N	25x1.5	18.5	49	30	35	27	11
AI M25X23	AI M25X23N	25x1.5	18.5	55	37	35	34	11
AI M32X23	AI M32X23N	32x1.5	25.7	57	37	44	34	13
AI M32X29	AI M32X29N	32x1.5	25.7	56	46	43	42	13
AI M40X29	AI M40X29N	40x1.5	32	56	46	54	42	13
AI M40X36	AI M40X36N	40x1.5	32	61	54	55	50	14
AI M50X36	AI M50X36N	50x1.5	41.5	64	54	67	50	14
AI M50X48	AI M50X48N	50x1.5	41.5	67	69	67	66	14

dimensions indicated are not binding and may be changed without notice

- fitting made of self-extinguishing PA6 polyamide without halogen, phosphorus and cadmium
- IP66 static and IP54 dynamic degree of protection (according to EN 60529)
- O-ring gasket for IP68 static and IP67 dynamic degree of protection (according to EN 60529) page 30
- temperature range -30 °C / +100 °C
- insertion and extraction of flexible tubes without the use of tools
- resistant to traction, shock and chemical agents (page 15)

“T” junction grey



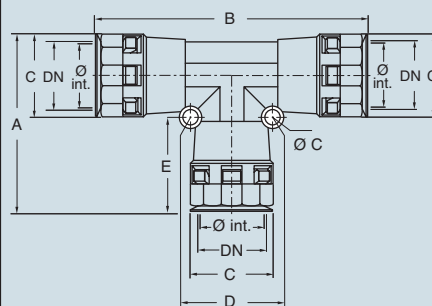
“T” junction black



description	part No.	part No.
- for 3 flexible tubes, nominal Ø 12	AIR T12	AIR T12N
- for 3 flexible tubes, nominal Ø 17	AIR T17	AIR T17N
- for 3 flexible tubes, nominal Ø 23	AIR T23	AIR T23N
- for 3 flexible tubes, nominal Ø 29	AIR T29	AIR T29N
- for 3 flexible tubes, nominal Ø 36	AIR T36	AIR T36N

dimensions in mm

AIR T - AIR T..N

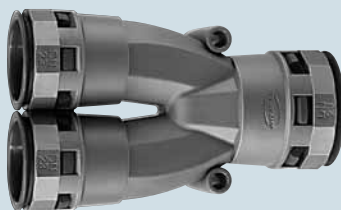


part No.	part No.	DN	Ø int.	A	B	C	D	E	Ø C
grey	black								
AIR T12	AIR T12N	3 x 12	12.8	52	81	23.5	20.5	30	2 x M 4
AIR T17	AIR T17N	3 x 17	18	63	96	29	28	35	2 x M 5
AIR T23	AIR T23N	3 x 23	25.5	76	117	37	36	40	2 x M 5
AIR T29	AIR T29N	3 x 29	31.5	85	128	45	41.5	41	2 x M 5
AIR T36	AIR T36N	3 x 36	38.5	97	144	53	50.5	46	2 x M 6

dimensions indicated are not binding and may be changed without notice

- fitting made of self-extinguishing PA6 polyamide without halogen, phosphorus and cadmium
- IP66 static and IP54 dynamic degree of protection (according to EN 60529)
- O-ring gasket for IP68 static and IP67 dynamic degree of protection (according to EN 60529) page 30
- temperature range -30 °C / +100 °C
- insertion and extraction of flexible tubes without the use of tools
- resistant to traction, shock and chemical agents (page 15)

junction "Y" grey



junction "Y" black



description

- for flexible tubes, nominal \varnothing 17 + 2 nominal \varnothing 12
- for flexible tubes, nominal \varnothing 23 + 2 nominal \varnothing 17
- for flexible tubes, nominal \varnothing 29 + 2 nominal \varnothing 23
- for flexible tubes, nominal \varnothing 36 + 2 nominal \varnothing 29

part No.

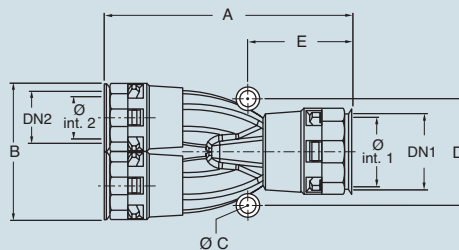
AIR Y17
AIR Y23
AIR Y29
AIR Y36

part No.

AIR Y17N
AIR Y23N
AIR Y29N
AIR Y36N

dimensions in mm

AIR Y - AIR Y..N



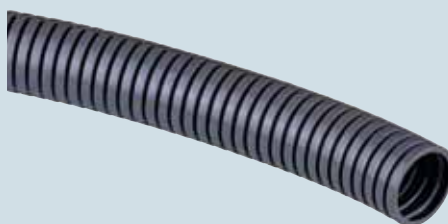
part No.	part No.	DN1	DN2	\varnothing int. 1	\varnothing int. 2	A	B	D	E	\varnothing C
	grey									
	black									
AIR Y17	AIR Y17N	17	2 x 12	18.2	13.8	89	47	34	37	2 x M 5
AIR Y23	AIR Y23N	23	2 x 17	24.1	17.8	106	58	45	44	2 x M 6
AIR Y29	AIR Y29N	29	2 x 23	30.3	24.5	118	74	52	45	2 x M 6
AIR Y36	AIR Y36N	36	2 x 29	38.1	30	141	89	60	52	2 x M 6

dimensions indicated are not binding and may be changed without notice

- 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
- resistant to traction, shock and chemical agents (page 15), ensuring the insulation and mechanical protection of cables

* UL mark with approval from the Underwriters Laboratories

standard flexible tube grey



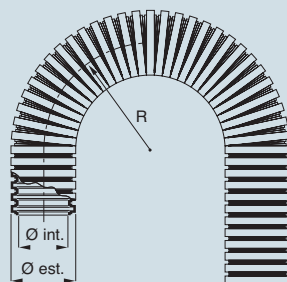
standard flexible tube black



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

dimensions in mm

AIT A - AIT A..N

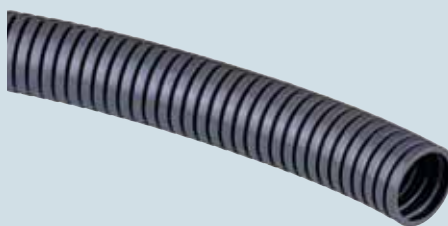


part No. grey	part No. black	Ø int.	Ø est.	R minimum curving radius (static)	standard package m
AIT A12	AIT A12N	12.2	15.8	30	50
AIT A17	AIT A17N	16.8	21.2	40	50
AIT A23	AIT A23N	22.6	28.5	55	50
AIT A29	AIT A29N	28.3	34.5	65	50
AIT A36	AIT A36N	36.3	42.5	80	30
AIT A48	AIT A48N	47.4	54.5	95	30

dimensions indicated are not binding and may be changed without notice

- 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
- resistant to traction, shock and chemical agents (page 15), ensuring the insulation and mechanical protection of cables

light flexible tube grey



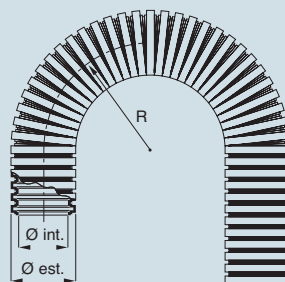
light flexible tube black



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 est.	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 indicated are not binding and may be changed without notice

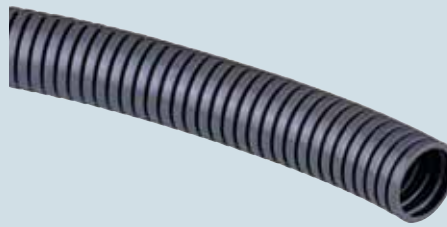
AI fittings and flexible tubes



- fitting made of modified PA6 polyamide without halogen, phosphorus and cadmium
- self-extinguishing V2 in line with UL94
- Resistance to 850 °C glow-wire according to IEC 60659-2-1
- temperature range -40 °C / +105 °C (short term: 150 °C)
- does not propagate flames according to IEC 50086
- insertion and extraction in the fitting without the use of tools
- resistant to traction, shock and chemical agents (page 15), ensuring the insulation and mechanical protection of cables

* UL mark approved by the Underwriters Laboratories

sturdy flexible tube, UL approved grey



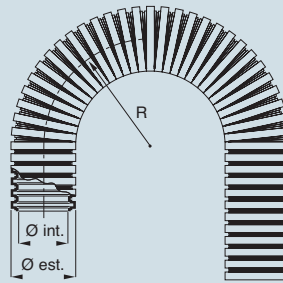
sturdy flexible tube, UL approved black



description	part No.	part No.
- nominal Ø 12 *	AIT S12	AIT S12N
- nominal Ø 17 *	AIT S17	AIT S17N
- nominal Ø 23 *	AIT S23	AIT S23N
- nominal Ø 29 *	AIT S29	AIT S29N
- nominal Ø 36 *	AIT S36	AIT S36N
- nominal Ø 48 *	AIT S48	AIT S48N

dimensions in mm

AIT S - AIT S..N

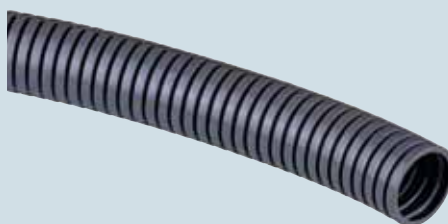


part No. grey	part No. black	Ø int.	Ø est.	R minimum curving radius (static)	standard package m
AIT S12	AIT S12N	12	15.8	35	50
AIT S17	AIT S17N	16.5	21.2	50	30
AIT S23	AIT S23N	22.3	28.5	60	30
AIT S29	AIT S29N	28.2	34.5	70	30
AIT S36	AIT S36N	36	42.5	85	10
AIT S48	AIT S48N	47.1	54.5	100	10

dimensions indicated are not binding and may be changed without notice

- fitting made of modified PA6 polyamide without halogen, phosphorus and cadmium
- self-extinguishing V2 according to UL94
- Resistance to 960 °C glow-wire according to IEC 60659-2-1
- temperature range -40 °C / +105 °C (short term: 150 °C)
- does not propagate flames according to IEC 50086
- insertion and extraction in the fitting without the use of tools
- resistant to traction, shock and chemical agents (page 15), ensuring the insulation and mechanical protection of cables

heavy-duty flexible tube grey



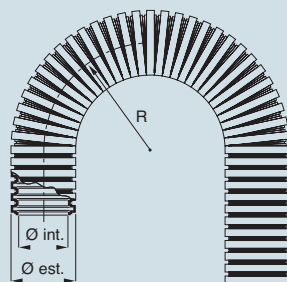
heavy-duty flexible tube black



description	part No.	part No.
- nominal Ø 12	AIT P12	AIT P12N
- nominal Ø 17	AIT P17	AIT P17N
- nominal Ø 23	AIT P23	AIT P23N
- nominal Ø 29	AIT P29	AIT P29N
- nominal Ø 36	AIT P36	AIT P36N
- nominal Ø 48	AIT P48	AIT P48N

dimensions in mm

AIT P - AIT P.N

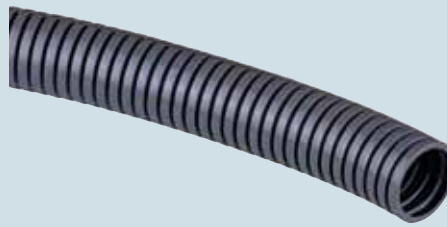


part No. grey	part No. black	Ø int.	Ø est.	R minimum curving radius (static)	standard package m
AIT P12	AIT P12N	11.6	15.8	40	50
AIT P17	AIT P17N	14.5	21.2	55	30
AIT P23	AIT P23N	21	28.5	65	30
AIT P29	AIT P29N	26.5	34.5	75	30
AIT P36	AIT P36N	35.1	42.5	90	10
AIT P48	AIT P48N	46.4	54.5	110	10

dimensions indicated are not binding and may be changed without notice

- made of modified PA12 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 -50 °C / +90 °C (short term: 140 °C)
- does not propagate flames according to IEC 50086
- insertion and extraction in the fitting without the use of tools
- resistant to traction, shock and chemical agents (page 15), ensuring the insulation and mechanical protection of cables against low temperatures and in dynamic applications

ultra-flexible tube grey



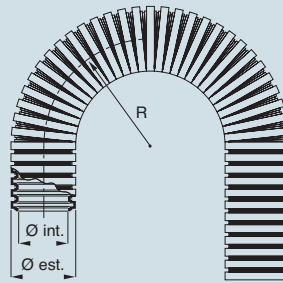
ultra-flexible tube black



description	part No.	part No.
- nominal Ø 12	AIT R12	AIT R12N
- nominal Ø 17	AIT R17	AIT R17N
- nominal Ø 23	AIT R23	AIT R23N
- nominal Ø 29	AIT R29	AIT R29N
- nominal Ø 36	AIT R36	AIT R36N
- nominal Ø 48	AIT R48	AIT R48N

dimensions in mm

AIT R - AIT R..N



part No. grey	part No. black	Ø int.	Ø est.	R minimum curving radius		standard package m
				static	dynamic	
AIT R12	AIT R12N	12	15.8	35	75	50
AIT R17	AIT R17N	16.4	21.2	40	85	30
AIT R23	AIT R23N	22.6	28.5	50	105	30
AIT R29	AIT R29N	28.1	34.5	65	130	30
AIT R36	AIT R36N	36	42.5	80	200	10
AIT R48	AIT R48N	47.5	54.5	100	230	10

dimensions indicated 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



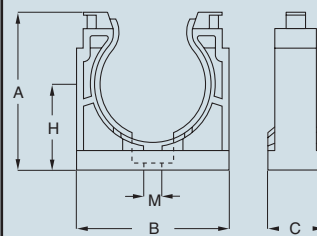
cable-guide support black



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

dimensions in mm

AIR D - AIR D..N



part No.	part No.	A	B	C	H	M
grey	black					
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 indicated are not binding and may be changed without notice

AI 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

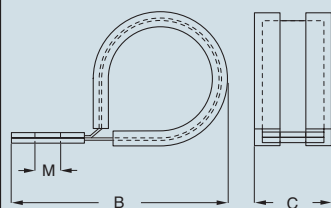
- steel supports
- nominal Ø 12
 - nominal Ø 17
 - nominal Ø 23
 - nominal Ø 29
 - nominal Ø 36
 - nominal Ø 48

part No.

- AIR Z12**
AIR Z17
AIR Z23
AIR Z29
AIR Z36
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 indicated are not binding and may be changed without notice

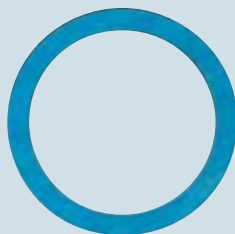
AIR B:

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

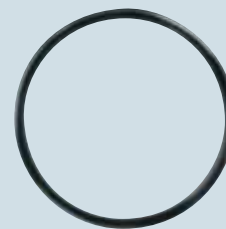
AIR G:

- 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



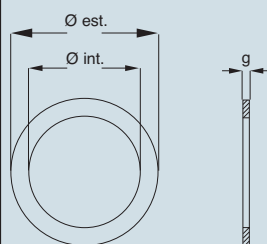
O-ring gaskets for flexible tubes



description	part No.	Pg or M threading	
- 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 fittings M 20	AIR B20	M 20	
- for fittings M 25	AIR B25	M 25	
- for fittings M 32	AIR B32	M 32	
- for fittings M 40	AIR B40	M 40	
- for fittings M 50	AIR B50	M 50	
O-ring gasket			AIR G12
- nominal Ø 12			AIR G17
- nominal Ø 17			AIR G23
- nominal Ø 23			AIR G29
- nominal Ø 29			AIR G36
- nominal Ø 36			AIR G48
- nominal Ø 48			

dimensions in mm

AIR B



part No.	Pg	Ø int.	Ø est.	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 est.	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 indicated are not binding and may be changed without notice



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