



e-rib

Reinforcement for existing corrugated tube systems



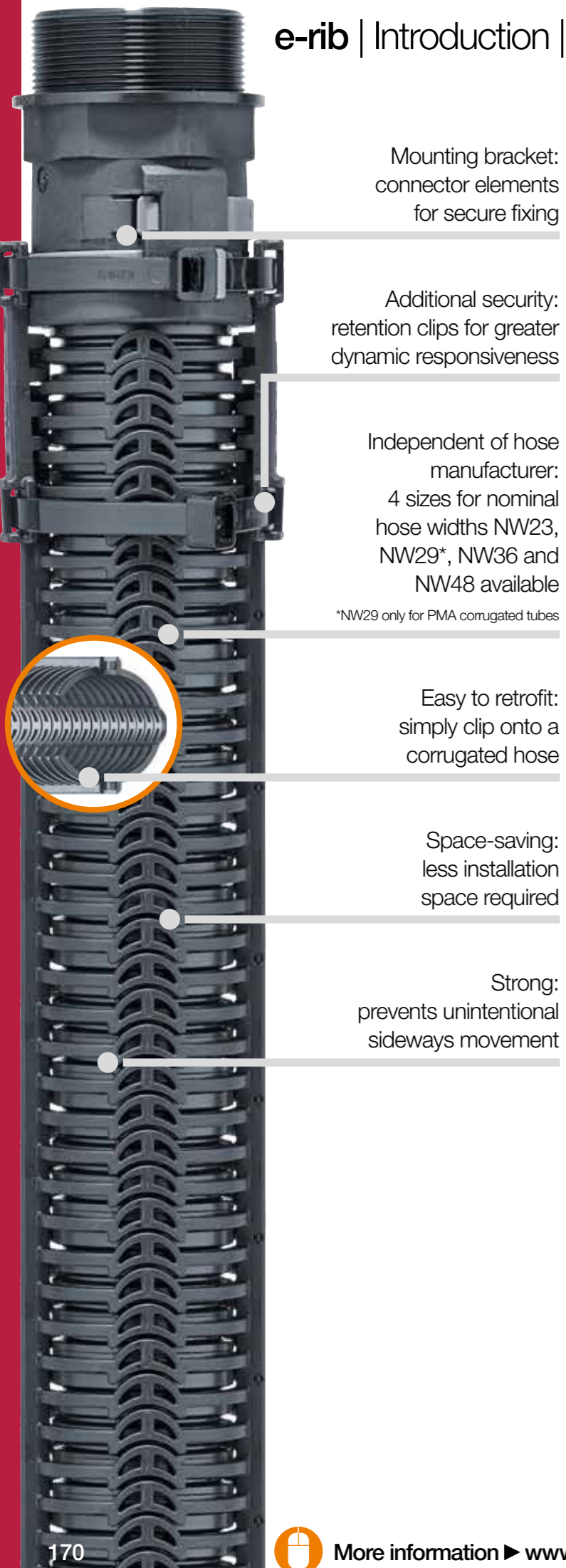
Advantages of the e-rib series:

- When low-cost corrugated tubes are used to protect and carry cables but stability must be increased
- To stabilise corrugated tubes used in highly dynamic applications
- Longer service life for cables in corrugated tubes
- 4 sizes for nominal hose widths NW23, NW29*, NW36 and NW48 available *NW29 for PMA corrugated tubes



When to use another system:

- If a fully enclosed, yet still openable corrugated tube is needed
 - ▶ e-skin®, page 812



Mounting bracket:
connector elements
for secure fixing

Additional security:
retention clips for greater
dynamic responsiveness

Independent of hose
manufacturer:
4 sizes for nominal
hose widths NW23,
NW29*, NW36 and
NW48 available

*NW29 only for PMA corrugated tubes

Easy to retrofit:
simply clip onto a
corrugated hose

Space-saving:
less installation
space required

Strong:
prevents unintentional
sideways movement

Reinforcement for existing corrugated tube systems - e-rib

Corrugated tubes are used in many applications where the mechanical demands on the energy supply are low. The key advantages are easy, versatile and exceptionally cost-effective guidance of energy, data and media. However, fast movements can lead to damaging sideways movement. The igus® e-rib is easy to clip onto a corrugated hose and can help prevent this. The e-rib fills the joints of the corrugated hose to stabilise it in such a way that it can only move in one direction. The corrugated hose has an unsupported length due to the lateral guide elements. When retrofitted, the e-rib enables an upgrade of existing applications with just a few simple steps. The e-rib is independent of the hose manufacturer (depending on size) and available in four sizes.

- Strength prevents unintentional sideways movement
- Radius stop-dog to prevent buckling
- Less installation space required
- Easy to retrofit
- No change in the impermeability of the corrugated hose

Typical industries and applications

- Fast, short and unsupported applications
- Standing or hanging applications
- Automotive industry
- Machine and plant construction
- Pick & Place applications
- Plotter
- Handling systems
- Medical technology
- SCARA robots

Series	Nominal width NW [mm]	Inner width Bi [mm]	Outer width Ba [mm]	Outer height ha [mm]	Mounting bracket	Page
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e-rib –
reinforcement for existing
corrugated tube systems

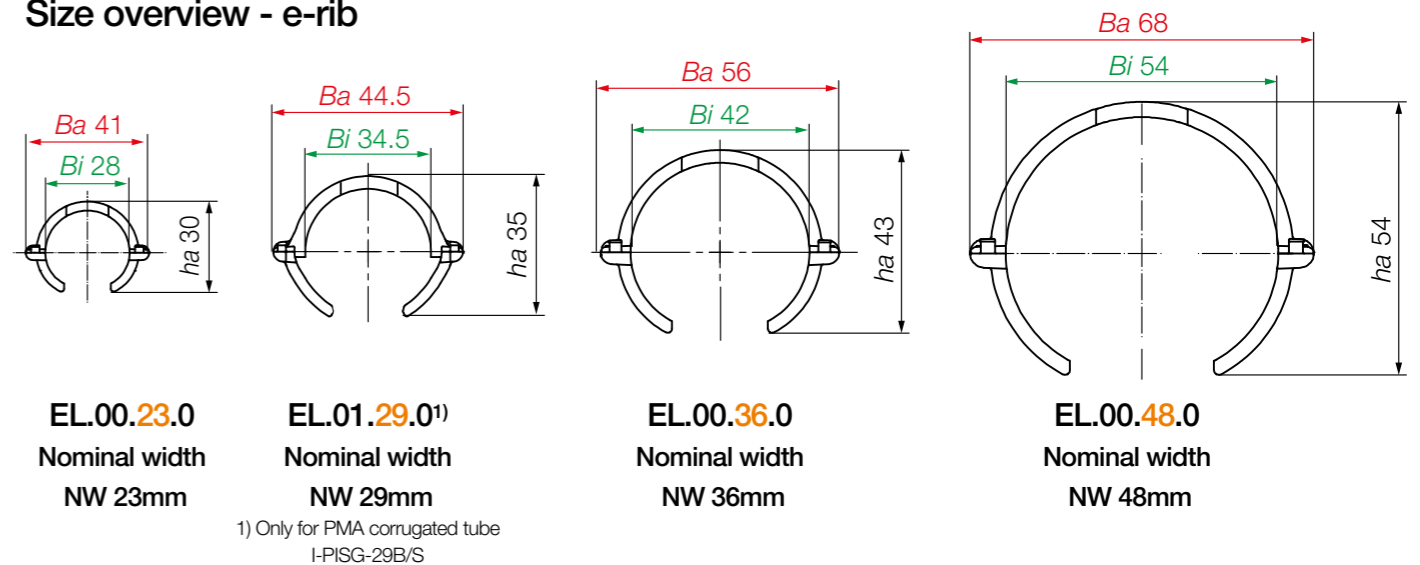
EL.00.23.0	23	28	41	30	EL.00.12	176
EL.01.29.0 ¹⁾	29	34.5	44.5	35	EL.01.12	177
EL.00.36.0	36	42	56	43	EL.00.12	178
EL.00.48.0	48	54	68	54	EL.00.12	179

1) EL.01.29.0 only for PMA corrugated tube I-PISG-29B/S



Other sizes available upon request. Please consult igus® for delivery time.

 Available from stock. Ready to ship in 24 - 48hrs.*
*Average time before the ordered goods are dispatched.

Size overview - e-rib

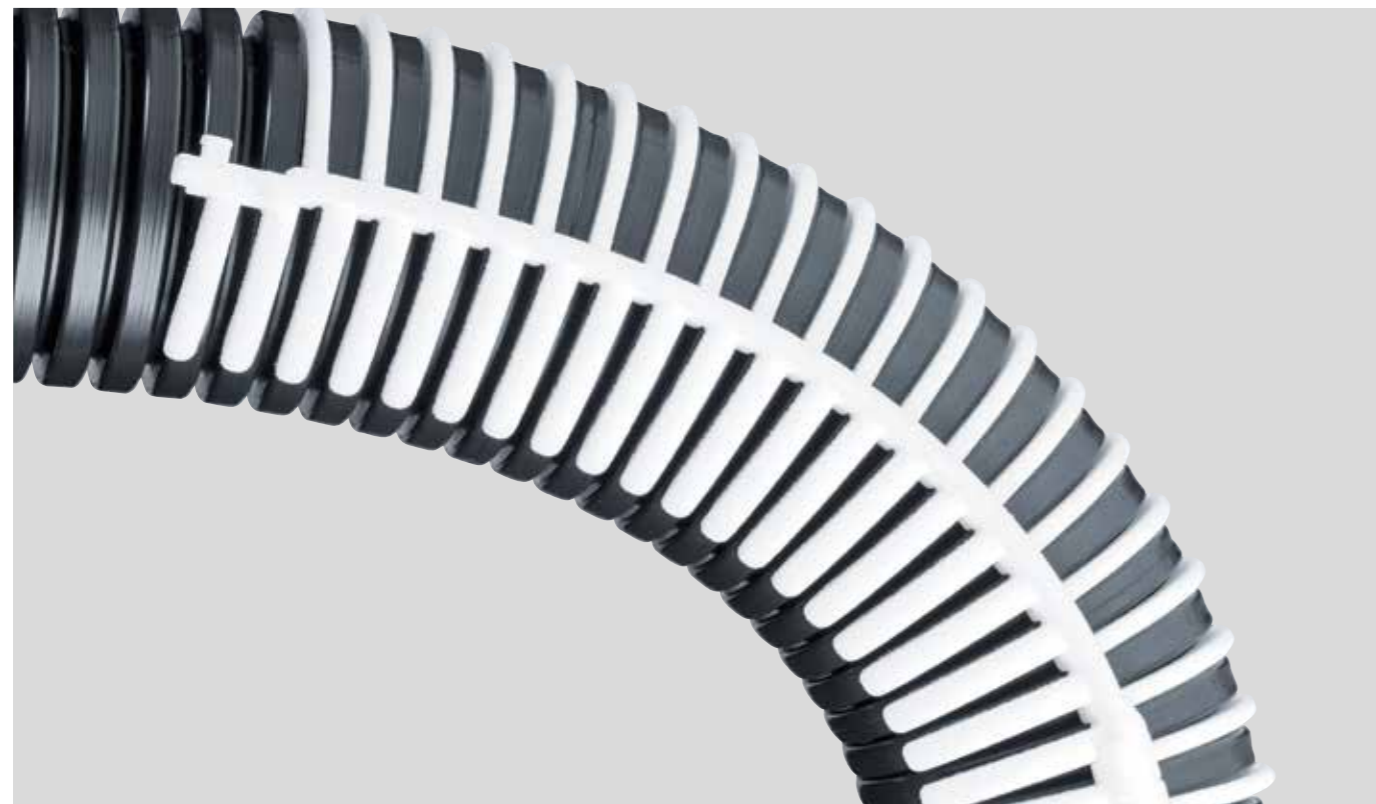


Technical data

 e-chain® material - permitted temperature °C, igumid NB	+5°C up to +80°C
Mounting bracket material - permitted temperature °C, igumid NB	+5°C up to +80°C
 Flammability class	VDE 0304 IIC UL94-V2


Overview nominal width | Manufacturer | Pitch

Part No. e-rib	For nominal width NW [mm]	For corrugated tube systems	e-rib segments per 1 metre	e-rib segment length [mm]
EL.00.23.0	NW 23	Independent of manufacturer	7 segments	147mm
EL.01.29.0	NW 29	Only for PMA corrugated tube I-PISG-29B/S	10 segments	100mm
EL.00.36.0	NW 36	Independent of manufacturer	7 segments	147mm
EL.00.48.0	NW 48	Independent of manufacturer	7 segments	147mm



The e-rib is clipped onto the corrugated tube and stabilises it in such a way that it can only move in one direction

Order example | Order key and colour examples | Examples based on series EL.00.36

 Order example for e-rib, colour black, with mounting bracket and securing clips for one metre corrugated tube (independent of manufacturer):

e-rib (for 1.0m)	Please indicate the quantity	EL.00.36.0
+ Mounting brackets	1 set mounting bracket	EL.00.12
+ Securing clips	Option: with 2 securing clips	EL.00.S
+ Cable tiewrap	Option: 1 cable tiewrap (for securing clips)	MAT0170899
Order text:	7 pieces EL.00.36.0 + 2 x EL.00.12 + 2 x EL.00.S + 1 x MAT0170899	

 Order key

Example: Part No. e-rib **EL.00.36.0**

Series e-rib








Index **00** for all manufacturers
Index **01** only for PMA

Nominal width (NW)

Colour index (standard black)



Order index for colour options

Colour	Order index	Colour	Order index
 Black	Standard .0	 Orange	Special colour .2
 Silver-grey	Special colour .31	 Yellow	Special colour .4
 White	Special colour .1	 Light grey	Special colour .14
 Grey-white	Special colour .1S		

Black e-ribs® ready to ship in 24-48hrs.*
Above special colours upon request.

*Average time before the ordered goods are dispatched.



The igus® e-rib corrugated tube reinforcement can be easily retrofitted onto existing systems



igus® delivers the required length. Any excess length can easily be cut off.



To attach the e-rib to the hose fitting, there must be no connection point on the last 7 ribs of the e-rib, otherwise the mounting bracket will not lock securely.

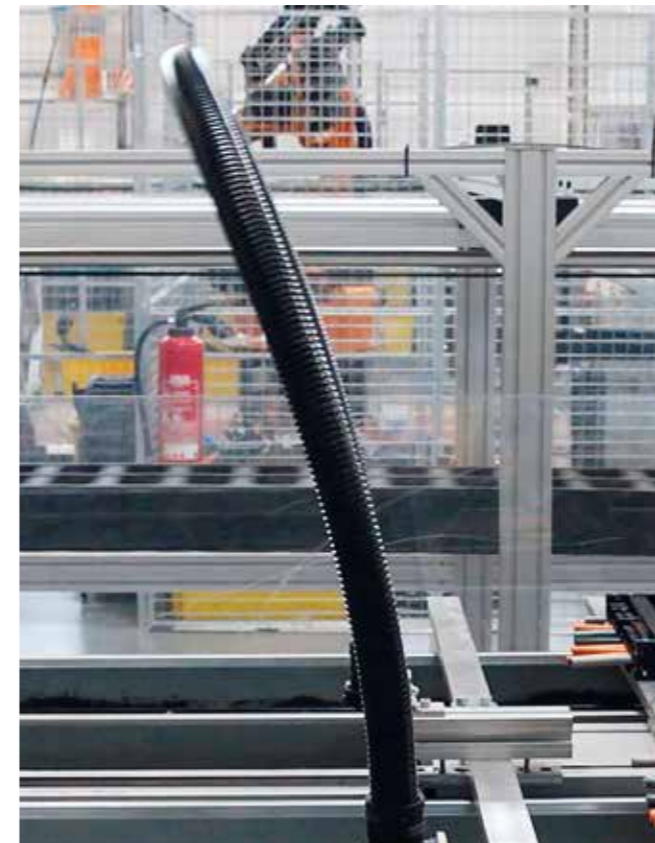


If necessary, cut off thicker end section and any excess length and place the two mounting brackets on the side plates.



Finally, the mounting brackets are fixed with two cable ties.

Find a video online
▶ www.igus.eu/e-rib



Tests from the igus® laboratory: The igus® e-rib (pictured on the right) stabilises the corrugated hose significantly in sideways movement during acceleration or deceleration



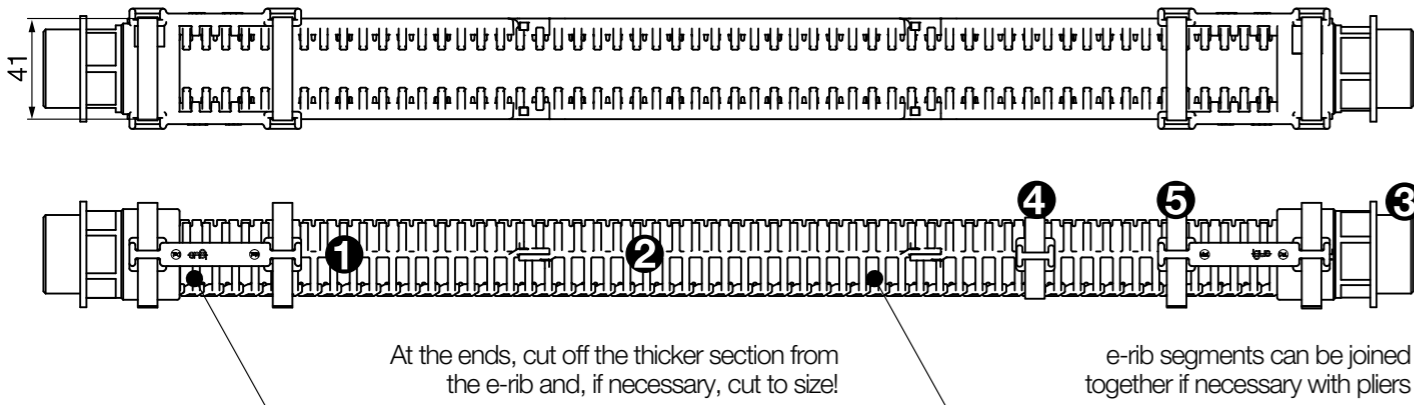
The e-rib stabilises the corrugated hose so that it can only move in one direction. The corrugated hose requires no other support along its length due to the e-rib



EL.00.23 | e-rib for corrugated tubes from different manufacturers | Nominal width 23

Part No.	NW	Bi	Ba	ha	Segments per metre	Segment length [mm]	Weight [kg/m]	Mounting bracket
e-rib	[mm]	[mm]	[mm]	[mm]				
EL.00.23.0	23	28	41	30	7	147	≈ 0.16	EL.00.12

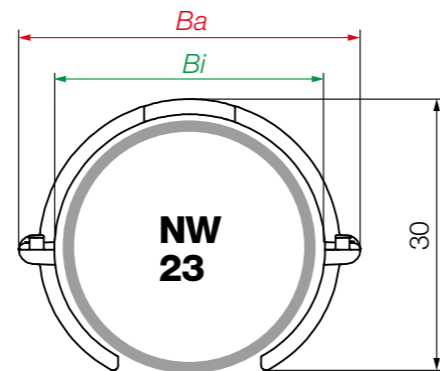
Installation dimensions and product description



Position	Description	Part No.
①	PMA corrugated tube	I-PISG-23B
②	e-rib	EL.00.23
③	PMA connection fitting	I-BVND-M323GT
④	Securing clip, optional*	EL.00.S
⑤	Mounting bracket connection set	EL.00.12

Note: For each locking device 2 clips EL.00.S and one cable tiewrap MAT0170899 are required!

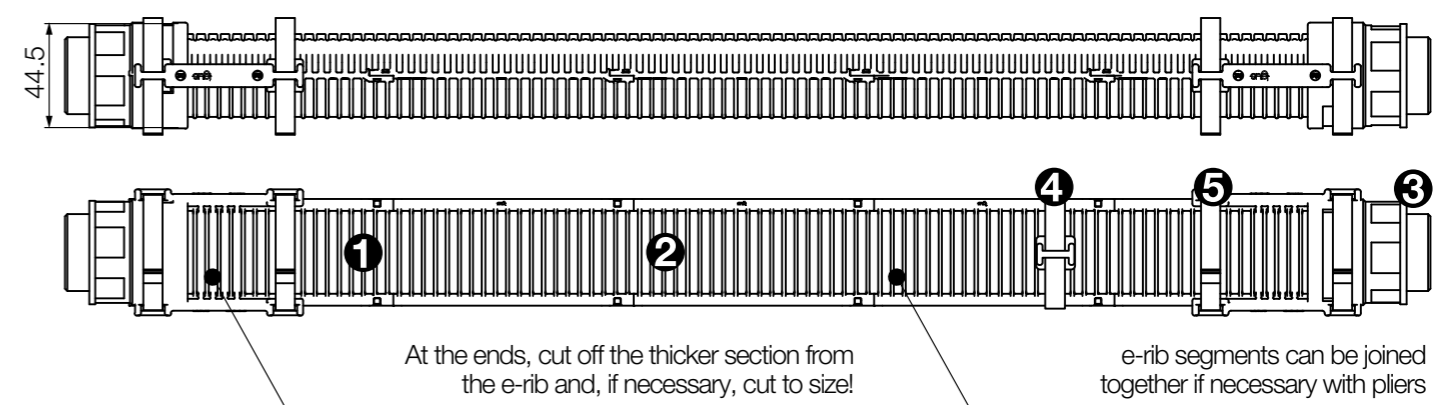
*Securing clips for additional attachment. They can be placed anywhere on the e-rib and fixed to the corrugated tube with a cable tiewrap.



EL.01.29 | e-rib - only for PMA corrugated tube I-PISG-29B/S | Nominal width 29

Part No.	NW	Bi	Ba	ha	Segments per metre	Segment length [mm]	Weight [kg/m]	Mounting bracket
e-rib	[mm]	[mm]	[mm]	[mm]				
EL.01.29.0	29	34.5	44.5	35	10	100	≈ 0.12	EL.01.12

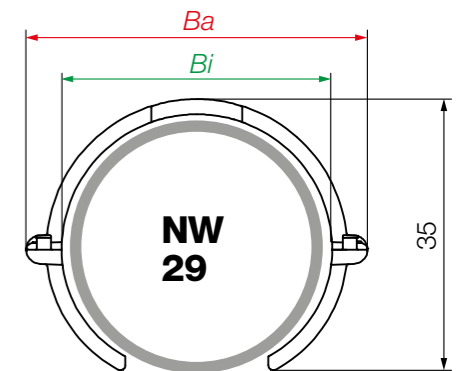
Installation dimensions and product description



Position	Description	Part No.
①	PMA corrugated tube	I-PISG-29B
②	e-rib	EL.01.29
③	PMA connection fitting	I-BVND-P299GT
④	Securing clip, optional*	EL.01.S
⑤	Mounting bracket connection set	EL.01.12

Note: For each locking device 2 clips EL.01.S and one cable tiewrap MAT0170899 are required!

*Securing clips for additional attachment. They can be placed anywhere on the e-rib and fixed to the corrugated tube with a cable tiewrap.

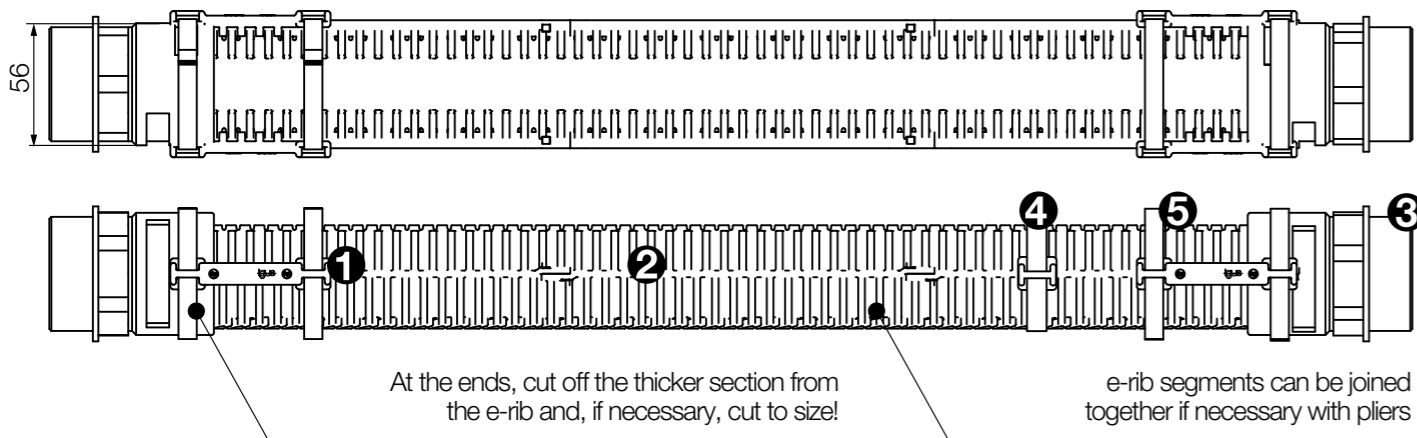




EL.00.36 | e-rib for corrugated tubes from different manufacturers | Nominal width 36

Part No.	NW	Bi	Ba	ha	Segments per metre	Segment length [mm]	Weight [kg/m]	Mounting bracket
e-rib	[mm]	[mm]	[mm]	[mm]				
EL.00.36.0	36	42	56	43	7	147	≈ 0.22	EL.00.12

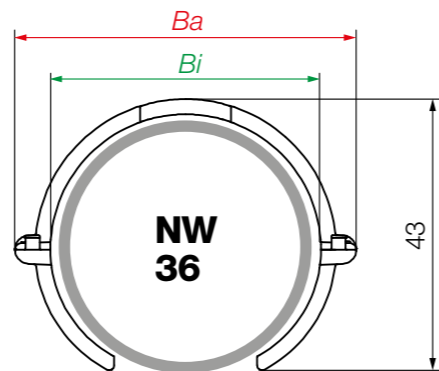
Installation dimensions and product description



Position	Description	Part No.
①	PMA corrugated tube	I-PISG-36B
②	e-rib	EL.00.36
③	PMA connection fitting	I-BVND-M506GT
④	Securing clip, optional*	EL.00.S
⑤	Mounting bracket connection set	EL.00.12

Note: For each locking device 2 clips EL.00.S and one cable tiewrap MAT0170899 are required!

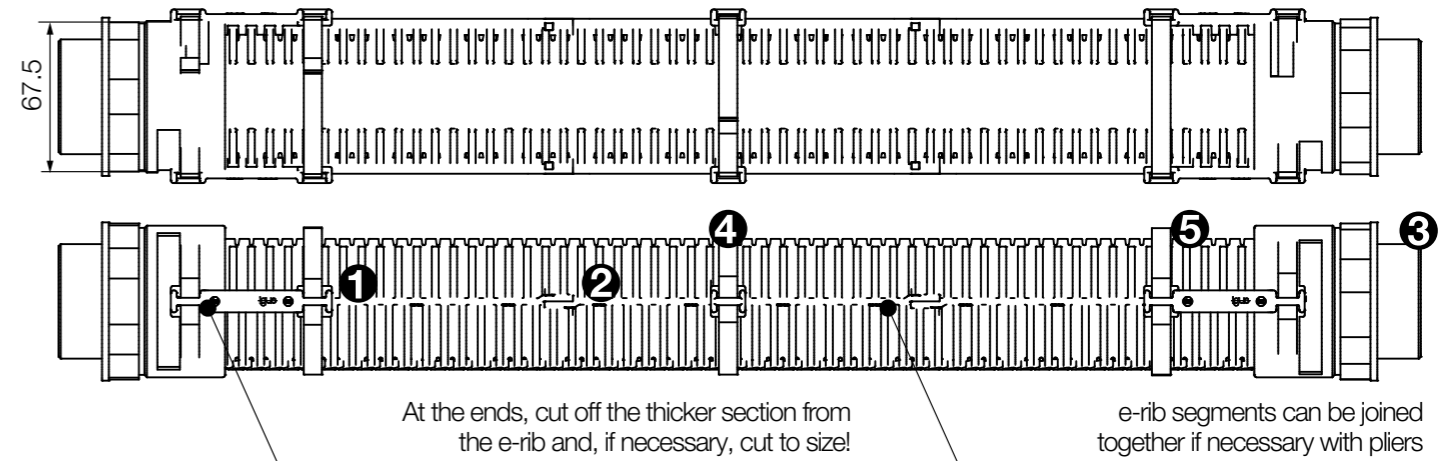
*Securing clips for additional attachment. They can be placed anywhere on the e-rib and fixed to the corrugated tube with a cable tiewrap.



EL.00.48 | e-rib for corrugated tubes from different manufacturers | Nominal width 48

Part No.	NW	Bi	Ba	ha	Segments per metre	Segment length [mm]	Weight [kg/m]	Mounting bracket
e-rib	[mm]	[mm]	[mm]	[mm]				
EL.00.48.0	48	54	68	54	7	147	≈ 0.27	EL.00.12

Installation dimensions and product description



Position	Description	Part No.
①	PMA corrugated tube	I-PISG-48B
②	e-rib	EL.00.48
③	PMA connection fitting	I-BVND-M508GT
④	Securing clip, optional*	EL.00.S
⑤	Mounting bracket connection set	EL.00.12

Note: For each locking device 2 clips EL.00.S and one cable tiewrap MAT0170899 are required!

*Securing clips for additional attachment. They can be placed anywhere on the e-rib and fixed to the corrugated tube with a cable tiewrap.

