E2 R e-tubes | Series R68 | Product range

Protection against dirt and debris, small pitch for smooth motion

45

e-tubes | Series R68 | Lids removable along the outer radius

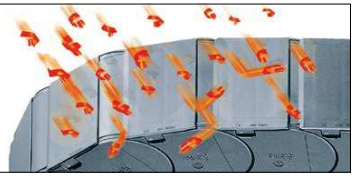
Part No.	Bi	Ba	R Available bend radii								R68
e-tubes	[mm]	[mm]	[mm]								[kg/m]
68.050.R.0	50	68	100	125	150	175	200	225	250	300	≈ 1.90
68.075.R.0	75	93	100	125	150	175	200	225	250	300	≈ 2.18
68.100.R.0	100	118	100	125	150	175	200	225	250	300	≈ 2.46
68.115.R.0	115	133	100	125	150	175	200	225	250	300	≈ 2.63
68.125.R.0	125	143	100	125	150	175	200	225	250	300	≈ 2.77
68.150.R.0	150	168	100	125	150	175	200	225	250	300	≈ 3.05
68.175.R.0	175	193	100	125	150	175	200	225	250	300	≈ 3.36
68.200.R.0	200	218	100	125	150	175	200	225	250	300	≈ 3.64
68.225.R.0	225	243	100	125	150	175	200	225	250	300	≈ 3.92
68.250.R.0	250	268	100	125	150	175	200	225	250	300	≈ 4.23

Complete Part No. with required radius (*R*). Example: **68.100.100.0**

Hot swarf up to +850°C for e-tubes

- e-tubes can repel swarf up to +850°C. Special production option with the igus® material igumid HT
- No hot swarf melting or embedding into the chain

More information ▶ www.igus.co.uk/HT



CFU strain relief with innovative honeycomb design

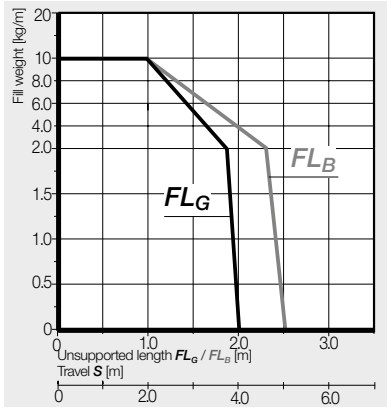
- Fast filling, openable from both sides for assembly in seconds
- Flexible honeycomb design for increased holding force
- Tribologically optimised honeycomb design for the best hold
- Universal use, compact, space-saving design

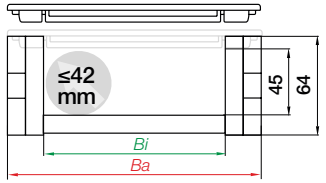
More information ▶ Page 1422

E2 R e-tubes | R68 | Installation dimensions

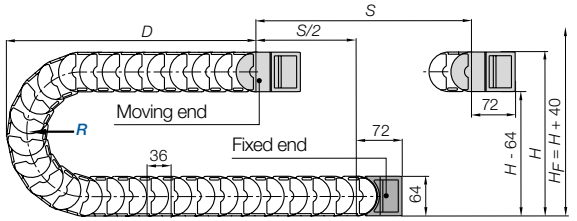
Unsupported applications | Short travels

▶ 1392 ▶ 1320





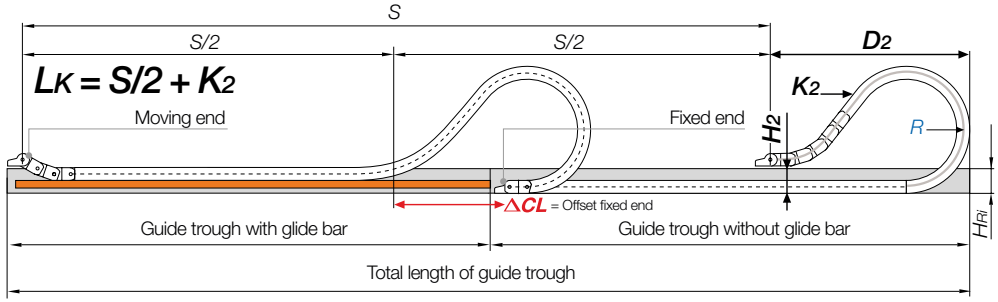
Inner height [mm]	45
Pitch [mm/link]	36
Links/m	28
corresponds to [mm]	1,008
e-tube length	$L_K = S/2 + K$



R	100	125	150	175	200	225	250	300
H	264	314	364	414	464	514	564	664
D	186	211	236	261	286	311	336	386
K	390	465	545	625	705	780	860	1,015

The required clearance height: $H_F = H + 40$mm (with 2.5kg/m fill weight)

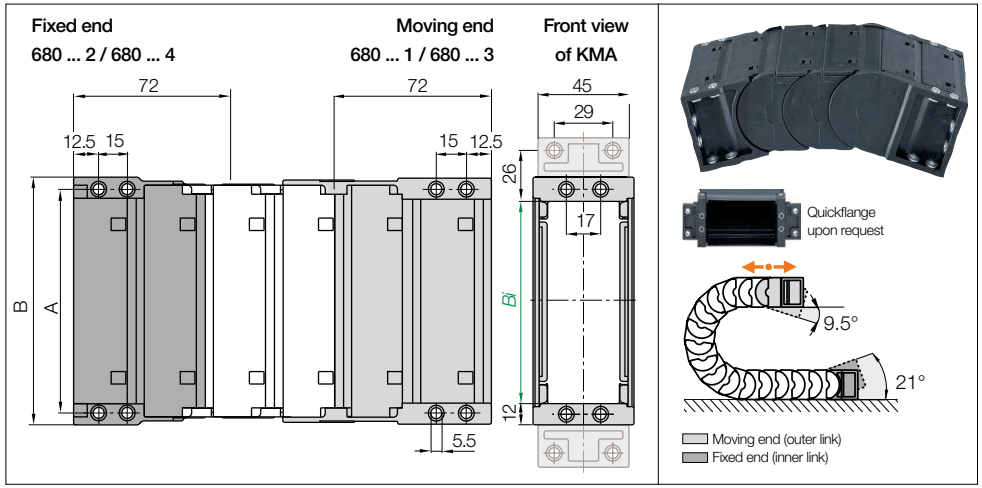
Gliding applications | For travel lengths from 6m to max. 100m



Note: We recommend the project planning of such a system to be carried out by igus®.
In case of travels between 4 and 6m we recommend an e-tube with a longer unsupported length.
If a gliding application is required for a long travel, please consult igus®.

R	100	125	150	175	200	225	250	300
H_2	201	220	220	220	220	220	220	220
D_2	200	370	440	540	650	700	850	1,050
K_2	500	648	792	900	1,116	1,269	1,476	1,800
ΔCL	*	164	204	294	364	439	514	664

*Upon request



KMA pivoting | Recommended for unsupported applications
KMA locking | Recommended for vertical hanging and standing applications

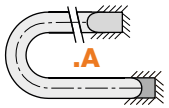
Width index	Part no. full set KMA pivoting	Part No. full set KMA locking	A [mm]	B [mm]	Bi [mm]
050. ▶	680.050.12	680.050.34	62	74	50
075. ▶	680.075.12	680.075.34	87	99	75
100. ▶	680.100.12	680.100.34	112	124	100
115. ▶	680.115.12	680.115.34	127	139	115
125. ▶	680.125.12	680.125.34	137	149	125
150. ▶	680.150.12	680.150.34	162	174	150
175. ▶	680.175.12	680.175.34	187	199	175
200. ▶	680.200.12	680.200.34	212	224	200
225. ▶	680.225.12	680.225.34	237	249	225
250. ▶	680.250.12	680.250.34	262	274	250

(KMA = polymer metal mounting bracket)

The following parts are required for attachment of the mounting brackets:

● Socket head cap bolt M5 DIN 912-8.8 Length depends on the thickness of the attachment base ● Washer 5.3 DIN 125-ST ● Hexagon nut M5 DIN 934-8

To receive full sets with pre-fitted quickflange please add index QF ▶ For example: Part No. 680.100.12.QF. Unassembled quickflange: Part No. 16800.QF

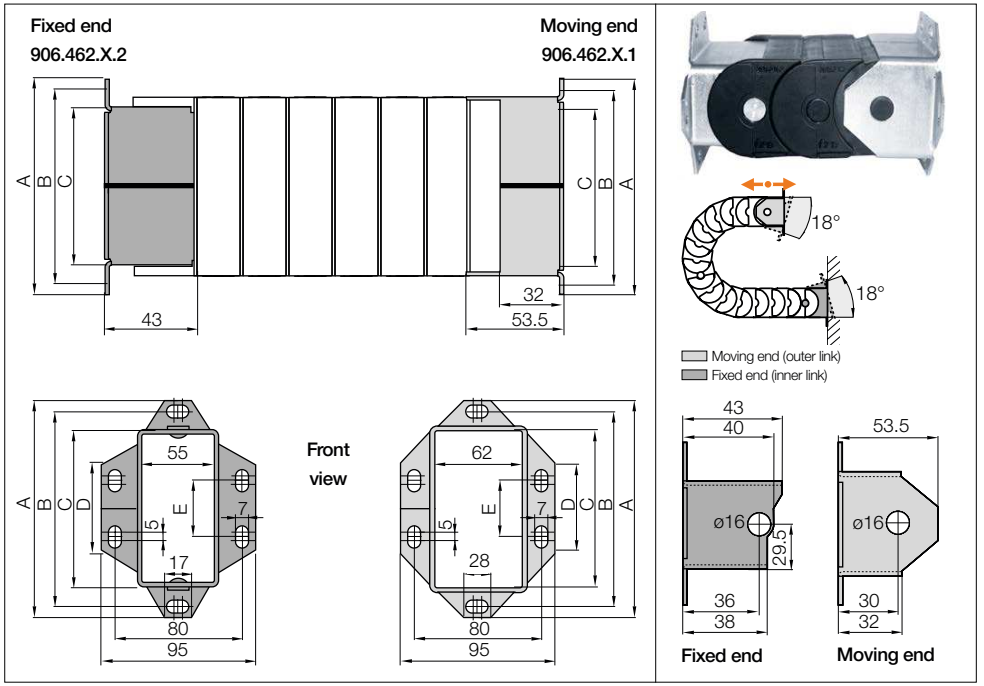


The bracket orientations are set automatically when using an igus® KMA mounting bracket with attachment from any side. To receive a KMA mounting bracket **pre-fitted** please add index **A.**

680.100.12.A **Order example**

Pre-assembled
Full set
Width index
Series

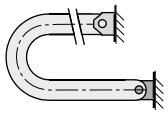
Strain relief e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1392



Steel flange, pivoting | Recommended for unsupported applications

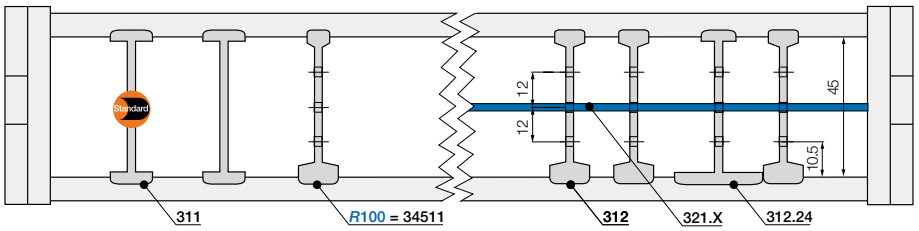
Width index	Hole pattern	Part No. Moving end	Bi [mm]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
075. ▶	68.1	906.462.1.1	75	116	104	83.3	50	30
115. ▶	68.2	906.462.2.1	115	156	144	123.3	90	50
175. ▶	68.3	906.462.3.1	175	216	204	183.3	150	100

Width index	Hole pattern	Part No. Fixed end	Bi [mm]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
075. ▶	68.1	906.462.1.2	75	116	104	83.4	38	30
115. ▶	68.2	906.462.2.2	115	156	144	123.4	78	50
175. ▶	68.3	906.462.3.2	175	216	204	183.4	138	100

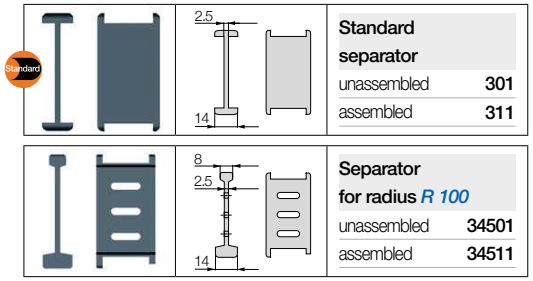


Metallic flange brackets with common hole patterns can easily replace alternatives, without having to alter the hole pattern. Flush attachment possibilities at both ends of the e-tube using flange mounting brackets made of steel.

Strain relief e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1392



No lateral gap to side links necessary.
As standard separators are fitted every 2nd e-tube link!



Standard separator	
unassembled	**301**
assembled	**311**
Separator for radius *R 100*	
unassembled	**34501**
assembled	**34511**

Option 1 | Separators

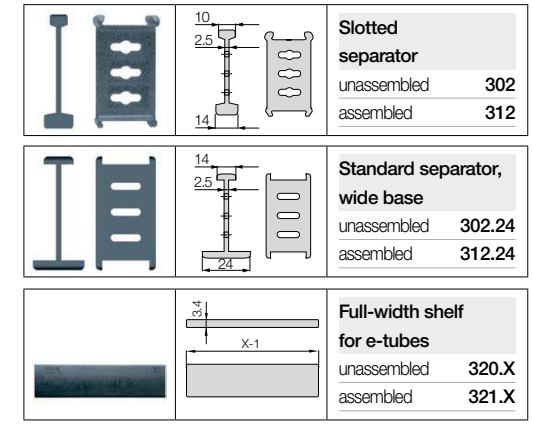
Standard separator

For simple vertical subdivision. Offers security due to its wide base design, also when used with large cables or hoses.

Not suitable for bend radius *R* 100!

Separator for radius *R* 100

If you select bend radius R 100 please use this separator for a vertical subdivision.



Slotted separator	
unassembled	**302**
assembled	**312**
Standard separator, wide base	
unassembled	**302.24**
assembled	**312.24**
Full-width shelf for e-tubes	
unassembled	**320.X**
assembled	**321.X**

Option 2 | Full-width shelves

Slotted separator

Vertical separation. The slot allows basic vertical and horizontal shelving arrangements.

Slotted separator, wide base

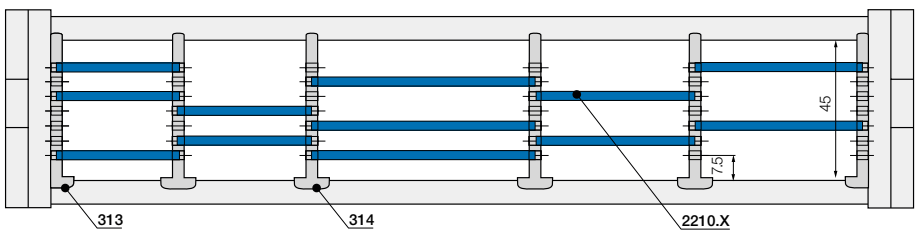
If a wide space between the separators has to be kept or separators have to be fixed in their position.

Full-width shelf

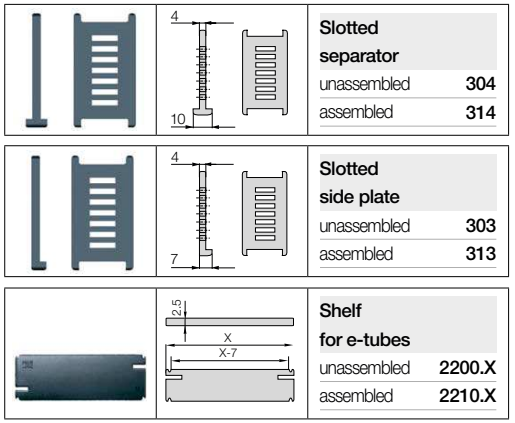
This option is for applications with many small cables with similar diameters. For full-width separation.

Full-width shelves
Width = X [mm]

X [mm]	unassembled	assembled	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
050	**320.050**	**321.050**	150	**320.150**	**321.150**	250	**320.250**	**321.250**
075	**320.075**	**321.075**	175	**320.175**	**321.175**			
115	**320.115**	**321.115**	200	**320.200**	**321.200**			
125	**320.125**	**321.125**	225	**320.225**	**321.225**			



No lateral gap to side links necessary.
As standard separators are fitted every 2nd e-tube link!



Slotted separator	
unassembled	**304**
assembled	**314**
Slotted side plate	
unassembled	**303**
assembled	**313**
Shelf for e-tubes	
unassembled	**2200.X**
assembled	**2210.X**

Option 3 | Partial shelves

Slotted separator

Allows modular shelving arrangements.

Slotted side plate

Allows modular shelving right up to the side links. No clearance required!

Shelf

For applications involving many cables with different diameters, shelves can be fitted at different heights.

Shelves
Width = X [mm]

X [mm]	unassembled	assembled	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
018	**2200.18**	**2210.18**	043	**2200.43**	**2210.43**	088	**2200.88**	**2210.88**
023	**2200.23**	**2210.23**	048	**2200.48**	**2210.48**	099	**2200.99**	**2210.99**
028	**2200.28**	**2210.28**	058	**2200.58**	**2210.58**	124	**2200.124**	**2210.124**
033	**2200.33**	**2210.33**	068	**2200.68**	**2210.68**	149	**2200.149**	**2210.149**
038	**2200.38**	**2210.38**	073	**2200.73**	**2210.73**			