

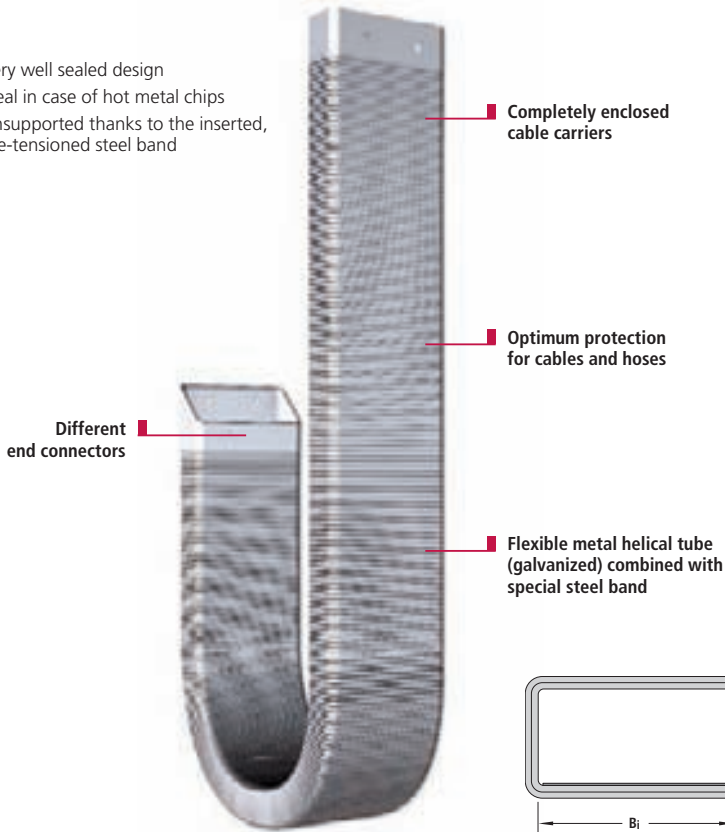
MOBIFLEX
connecting the power to innovate



MOBIFLEX

Enclosed cable carrier with flexible metal helical tube

- Very well sealed design
- Ideal in case of hot metal chips
- Unsupported thanks to the inserted, pre-tensioned steel band



MOBIFLEX

Inside heights



Inside widths



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Type	h_i	B_k	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v_{max} in m/s	Travel acceleration a_{max} in m/s ²	
MF 030.1	24	26	2.0	10	20	290
MF 050.1	24	45	3.0	10	20	290
MF 050.2	44	45	3.0	10	20	290
MF 080.1	40	80	3.5	10	18	290
MF 080.2	54	80	3.5	10	18	290
MF 080.3	78	80	3.5	10	18	290
MF 110.1	53	109	4.0	6	15	290
MF 110.2	73	109	4.0	6	15	290
MF 110.3	108	109	4.0	6	15	290
MF 170.1	72	170	5.0	6	12	290
MF 170.2	102	170	5.0	6	12	290
MF 170.3	167	170	5.0	6	12	290

Subject to change.

Dimensions in mm

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KABELSCHLEPP
Cable Carrier Configurator

Types MF 030, 050, 080, 110, 170

Dimensions, intrinsic weight and bend radius

Inside heights
 \uparrow 24
 \downarrow 167

Inside widths
 \uparrow 26
 \downarrow 170

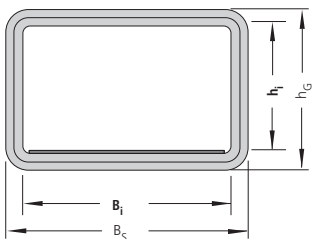
MOBIFLEX Type	B _S	B _I	h _G	h _I	Available bend radii KR			Weight G _S	Shortening L _{VK}
MF 030.1	30	26	30	24	80	-	-	1.2	45
MF 050.1	50	45	30	24	75	100	-	150	45
MF 050.2	50	45	50	44	110	150	-	200	80
MF 080.1	85	80	45	40	100	150	-	200	70
MF 080.2	85	80	60	54	150	200	-	250	95
MF 080.3	85	80	85	78	200	-	-	-	135
MF 110.1	115	109	60	53	150	200	-	250	95
MF 110.2	115	109	80	73	200	250	-	350	125
MF 110.3	115	109	115	108	300	-	-	-	180
MF 170.1	175	170	80	72	190	250	300	350	125
MF 170.2	175	170	110	102	250	300	-	400	175
MF 170.3	175	170	175	167	365	-	-	-	275

Stated bend radii = KR_{max}

Dimensions in mm / Weight in kg/m

Tolerances specified by manufacturer: -20 to -30 mm

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Hose length (with loop):
 $L_{ES} \approx \frac{L_S}{2} + L_B$

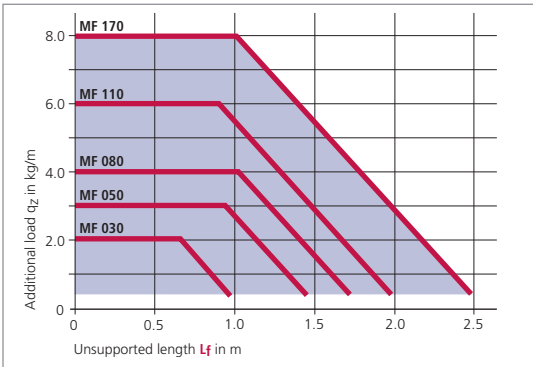
Bend length
 $L_B = KR \cdot \pi + \text{Reserve (KR)}$

Stretched hose length:
 $L_{gestr.} = L_{ES} - L_{VK}$

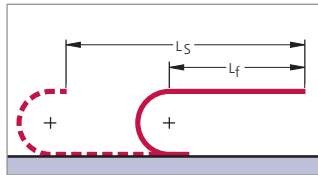
Hose shortening
 $L_{VK} = h_G/2 \cdot \pi$

Load diagram

for unsupported length L_f depending on the additional load



Unsupported length L_f



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 Use our free project planning service.

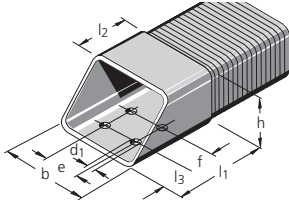
Example of ordering

Cable carrier	Connection
MF 170.1 - 250 - 980	FST/FQF
MOBIFLEX Type	Connection Fixed point/Driver
Bend radius KR in mm	
Conduit length L _S in mm (without connection)	

Types MF 030, 050, 080, 110, 170

Connection dimensions

Diagonal flange connector – SF



Type	b	h	e	f	d	l ₁	l ₂	l ₃
MF 030.1	34	34	–	40	9	120	60	10
MF 050.1	54	34	20	40	9	120	60	10
MF 050.2	54	54	20	40	9	120	60	10
MF 080.1	90	50	50	40	9	120	60	10
MF 080.2	90	65	50	40	9	120	60	10
MF 080.3	90	90	50	40	9	120	60	10
MF 110.1	120	65	80	40	9	120	60	10
MF 110.2	120	85	80	40	9	120	60	10
MF 110.3	120	120	80	40	9	120	60	10
MF 170.1	180	85	140	40	9	120	60	10
MF 170.2	180	115	140	40	9	120	60	10
MF 170.3	180	180	140	40	9	120	60	10

Dimensions in mm

Inside heights

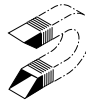


Inside widths



Connection variants for diagonal flange connectors SF

Connecting surface outside/outside



1

Connecting surface inside/outside



2

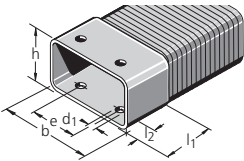
Connecting surface inside/inside



3

Please state the position of the connecting surfaces when ordering.

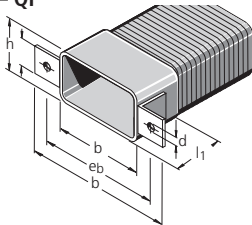
Standard connector bracket – ST



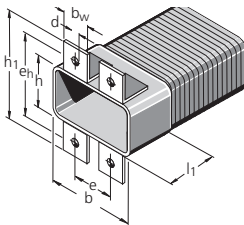
Type	b	h	e	e _b	e _n	d	l ₁	l ₂	b _w	b ₁	h ₁
MF 030.1	34	34	–	56	56	9	60	20	20	74	74
MF 050.1	54	34	20	76	56	9	60	20	20	94	74
MF 050.2	54	54	20	76	76	9	60	20	20	94	94
MF 080.1	89	49	50	111	71	9	75	20	20	129	89
MF 080.2	89	64	50	111	86	9	75	20	20	129	104
MF 080.3	89	89	50	111	111	9	75	20	20	129	129
MF 110.1	119	64	80	141	86	9	95	20	20	159	104
MF 110.2	119	84	80	141	106	9	95	20	20	159	124
MF 110.3	119	119	80	141	141	9	95	20	20	159	159
MF 170.1	179	84	140	201	106	9	95	20	20	219	124
MF 170.2	179	114	140	201	136	9	95	20	20	219	154
MF 170.3	179	179	140	201	201	9	95	20	20	219	219

Dimensions in mm

Cross flange connector bracket – QF



High flange bracket – HF



Front flange connectors can be supplied in accordance with customer drawings.

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Web-Configurator
 Cable Carrier Configurator