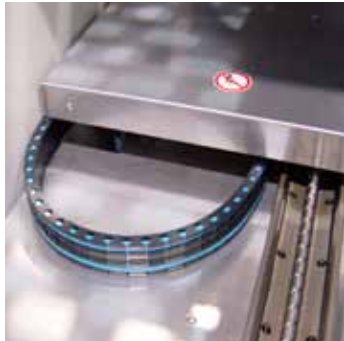


PROFILE

Clean
Uniquely clean, quiet, and smooth
plastic Quiet carrier smooth



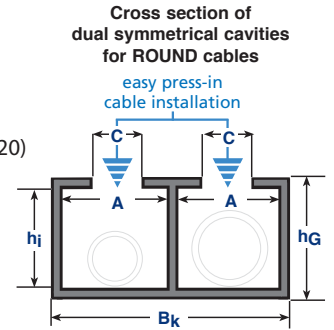
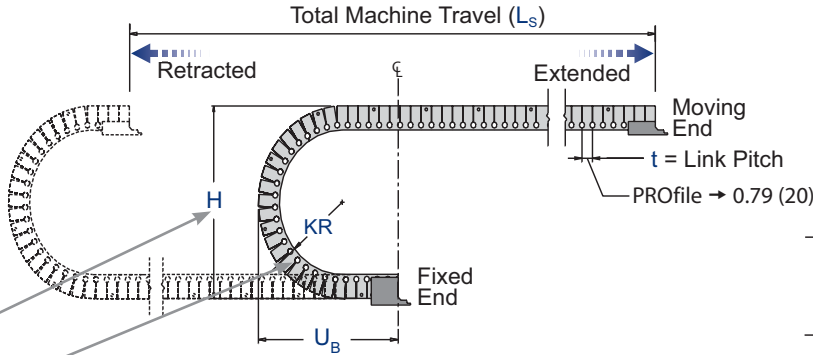
KABELSCHLEPP

Key Features:

- Vibration-free operation - No polygon effect = Low oscillation operation
- No links, no wear = Suitable for clean room environments
- Extremely durable: > 25 million cycles of operation = Incredibly long service life
- Special design allows for additional 3D and torsional movement
- Less stress and wear on cables since there is no polygon effect
- Various combination options from individual modules to multi-module systems
- Easy "press-in" cable and hose installation
- Select from standard modules for round cables and special modules optimized for flat cables

GENERAL DATA

E	CONOMIC
V	ALUE
A	DDED
3	
<p>A product group's EVA score is a general indicator that allows a customer to quickly and easily compare a product group's basic price, features, capabilities and value relative to other comparably sized products within the KS product range.</p>	
<p>Download 3D CAD files, videos, updated product info & much more at: www.kabelschlepp.com/profile.htm</p>	



0.00 = inches
(00.00) = (mm)

Standard Ideal for ROUND Cables	Minimum Mounting Height (H min)	Minimum Bend Radius (KR min)	Symmetrical Dual Cavity Width (A)	Symmetrical Dual Cavity Height (hi)	Cavity Access Opening Width (C)	Overall Cross Section Width (Bk)	Overall Cross Section Height (hG)	Minimum Allowable Cable Diameter (min Ø)	Maximum Allowable Cable Diameter (max Ø)
EM-0808	8.82 (224)	2.95 (75)	0.33 (8.5)	0.43 (11)	0.10 (2.5)	0.96 (24.5)	0.59 (15)	0.30 (7.5)	0.16 (4)
EM-1212	8.82 (224)	2.95 (75)	0.47 (12)	1.34 (34)	0.16 (4)	1.26 (32)	1.57 (40)	0.24 (6)	0.43 (11)
EM-1717	8.82 (224)	2.95 (75)	0.67 (17)	1.34 (34)	0.16 (4)	1.65 (42)	1.57 (40)	0.32 (8)	0.63 (16)
EM-2222	8.82 (224)	2.95 (75)	0.87 (22)	1.34 (34)	0.28 (7)	2.05 (52)	1.57 (40)	0.55 (14)	0.83 (21)
EM-2727	8.82 (224)	2.95 (75)	1.06 (27)	1.34 (34)	0.39 (10)	2.44 (62)	1.57 (40)	0.67 (17)	1.02 (26)
EM-3232	8.82 (224)	2.95 (75)	1.26 (32)	1.34 (34)	0.59 (15)	2.84 (72)	1.57 (40)	0.79 (20)	1.18 (30)

The PROFILE System Basics:



- Material:** 100% recyclable extruded Polypropylene with a wall thickness of 2.5 mm (see diagram)
- Operating Temperatures:** -40°C to +85°C
- Resistant To:** All common greases, lubricants, oils and coolants present in most machinery
- Cleanliness:** Class 10 (without operating contents)
- Operational Noise:** 9 - 12 dba quieter than traditional "link" carrier systems
- Longevity:** Up to 25+ million back and forth cycles
- Segment Length or Pitch:** 20 mm (see diagram)
- Ease Of Installation:** Easily install cables and hoses into press-in cavity and secure system to mounting surface directly with self-tapping screws or by using optional mounting brackets with integral strain relief

How to calculate the length of PROFILE required:

For the most economical use of PROFILE, the fixed (non-moving) connection point should be mounted at the center of the total travel*, then...

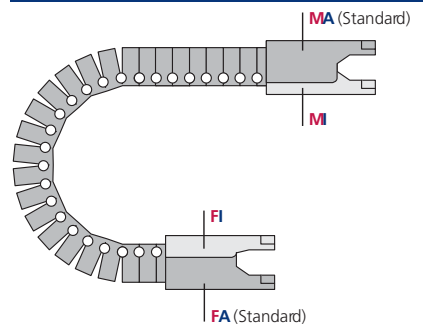
The required length (LK) = ((Mounting Height ÷ 2) x 3.14) + (the total machine travel ÷ 2) + 60 mm **

* If the fixed connection point must be mounted away from the center point, add the distance that the fixed point is off-center to the overall length determined by the above equation to determine the length of PROFILE required.

** Then round up to the next pitch (multiples of 20 mm)

PROFILE standard modules feature two symmetrical cavities with simple press-in cable installation.

Mounting Bracket Positions



How To Order
1-800-443-4216



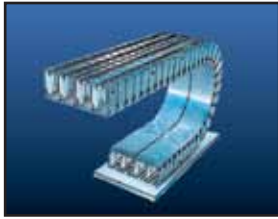
Number of Systems Req. x Carrier Type x Carrier Length x Mounting Brackets

4 x Series 1212 x 2420 mm with 1 set of 1212 mounting brackets attached MA/FI

PROFILE System Typical Installation Options

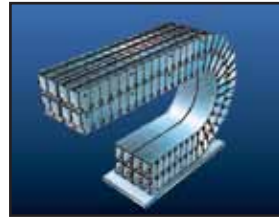
Horizontal

Single or Side by Side



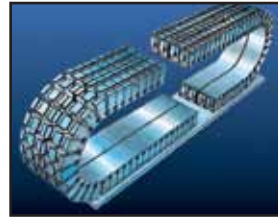
Nested Horizontal

Single or Side by Side



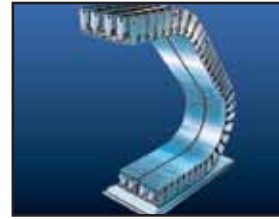
Opposed

Single or Side by Side



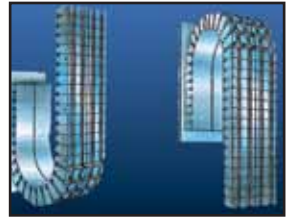
Multi-Axis

Single or Side by Side



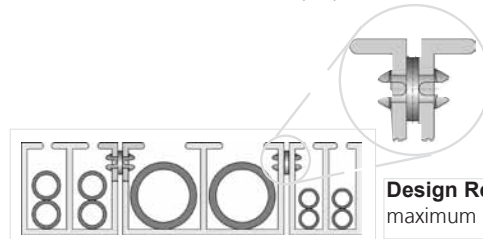
Vertical Loop Up or Loop Down

Single or Side by Side



Side by Side Assembly

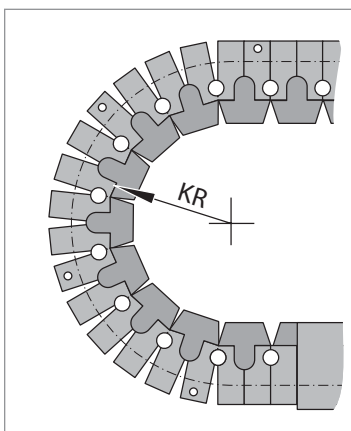
PROFILE standard modules can be combined with one another as required to increase the overall system width and number of cavities. For this purpose, the module side walls can be joined by connecting rivets.



Nylon rivets can be used to easily connect standard PROFILE module sections for side by side operation (P/N EN-0100 for 100 rivets)

Design Recommendation: 1 cable per cavity or a maximum of 2 stacked one above the other

PROFILE Series	Recommended Cable Type	Maximum Suggested Travel Length (Self Supporting Mode)
EM-0808	Round	59" (1500 mm)
EM-1212	Round	158" (4000 mm)
EM-1717	Round	158" (4000 mm)
EM-2222	Round	158" (4000 mm)
EM-2727	Round	158" (4000 mm)
EM-3232	Round	158" (4000 mm)



Bend Radius (KR) Clips

The minimum bending radius (KR) of the extruded PROFILE modules is determined by their intrinsic stiffness. PROFILE standard modules can be fitted with radius clips to limit the minimum bending radius (see table below).

When used on individual modules, the radius clips are placed along the entire length of the module; in the case of multiple module combinations, radius clips are placed only on the outer modules.

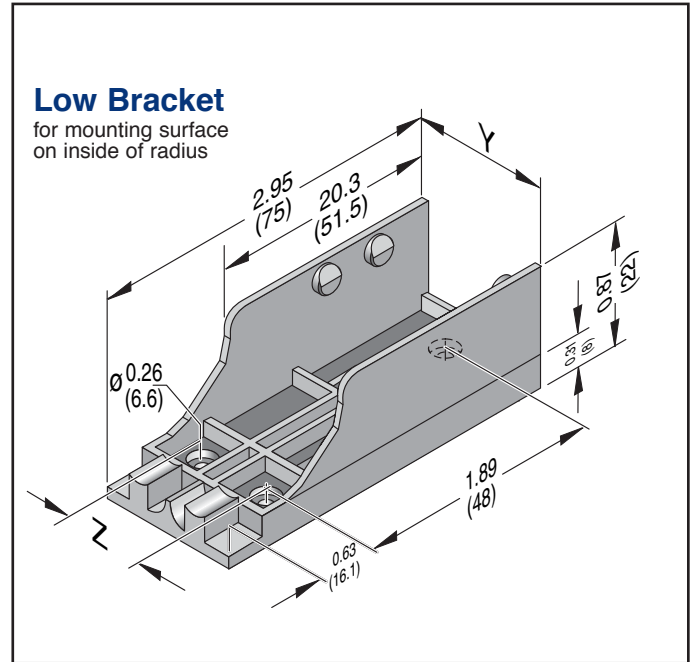
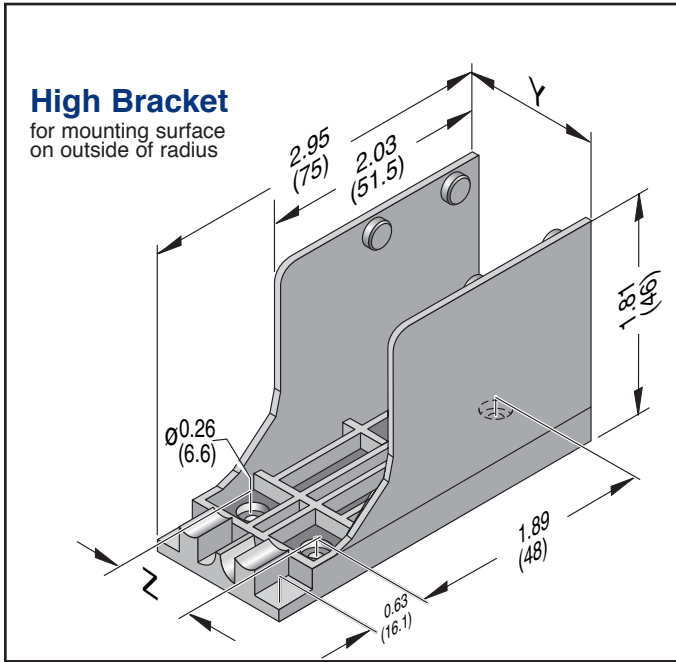
Module	Available Bending Radii (KR)				
	0.00 = inches	(00) = (mm)			
EM-1212	2.95 (75)	3.94 (100)	5.91 (150)	7.87 (200)	9.84 (250)
EM-1717	2.95 (75)	3.94 (100)	5.91 (150)	7.87 (200)	9.84 (250)
EM-2222	2.95 (75)	3.94 (100)	5.91 (150)	7.87 (200)	9.84 (250)
EM-2727	---	3.94 (100)	5.91 (150)	7.87 (200)	9.84 (250)
EM-3232	---	3.94 (100)	5.91 (150)	7.87 (200)	9.84 (250)

Mounting Options

PROFILE standard mounting brackets with integral cable strain relief are only available for the Series 1212, 1717, 2222, 2727, 3232:

PROFILE

15



Note: For applications where desired and for series S45 and S67, PROFILE can be directly mounted (screwed) down onto machinery with self-tapping screws.

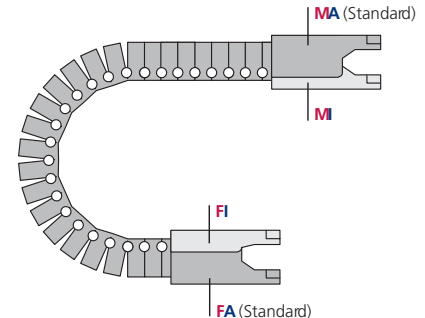
Series	1212	1717	2222	2727	3232
"Y" Dimension	1.42 (36)	1.81 (46)	2.20 (56)	2.60 (66)	2.97 (75.5)
"Z" Dimension	0.71 (18)	0.79 (20)	1.18 (30)	1.58 (40)	1.97 (50)

! Custom designed, Made-To-Order PROFILE types are available upon request. Please call KabelSchlepp at **1.800.443.4216** or E-MAIL us at sales@kabelschlepp.com for information.

How To Order
1-800-443-4216



Mounting Bracket Positions



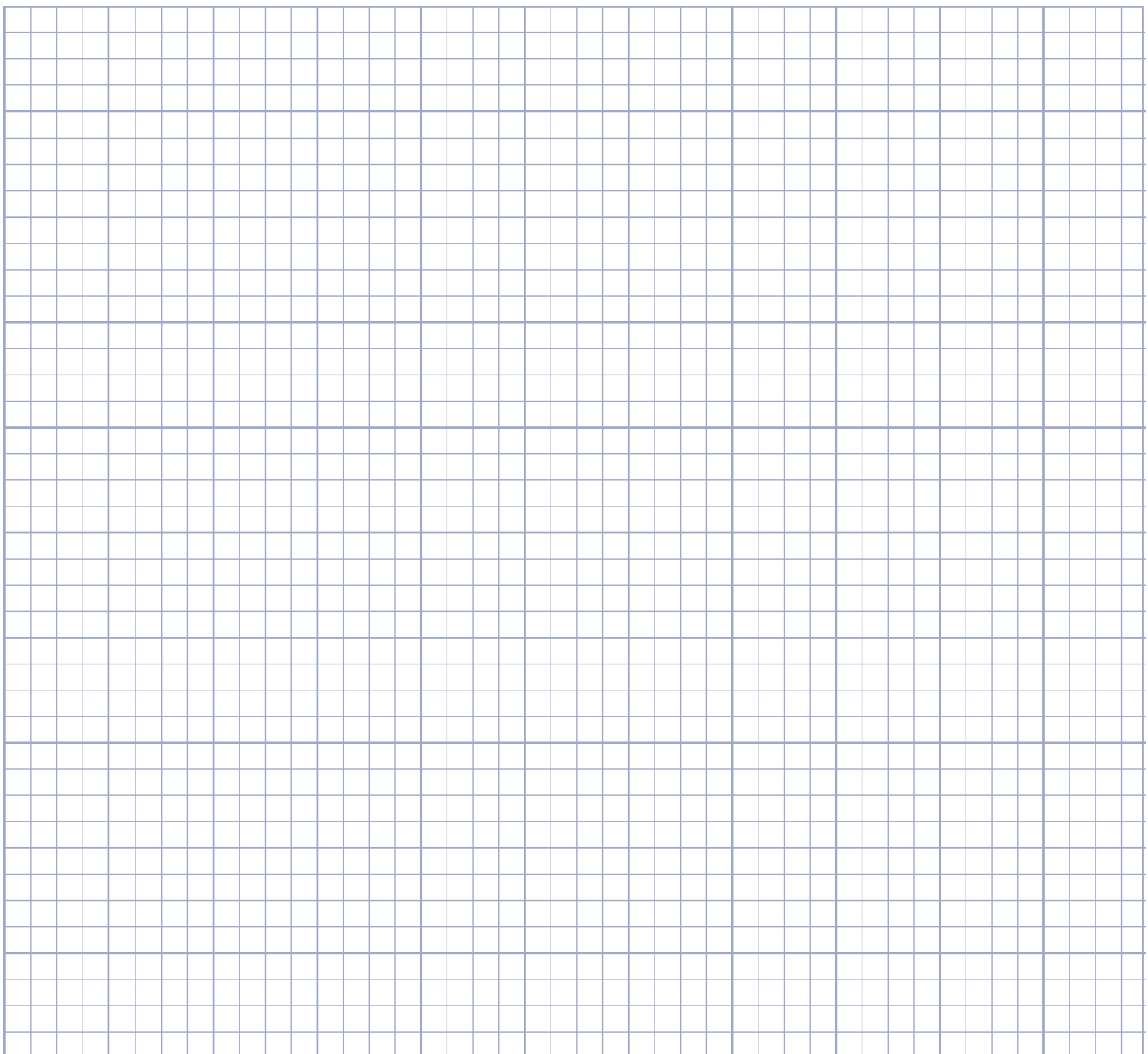
Number of **Systems Req.** x Carrier **Type** x Carrier **Length** with **Mounting Brackets**

4 x **Series 1212** x **2420 mm** with **1 set of 1212 mounting brackets attached MA/FI**

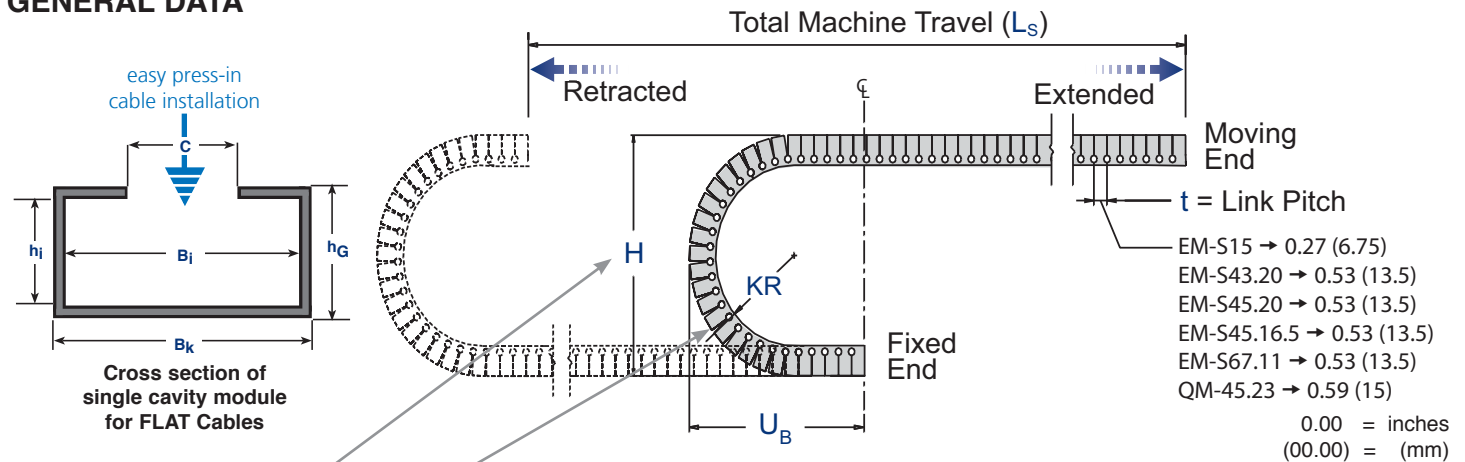
Specifications are subject to change without notice.
KSA-0810-GC

DESIGN AND LAYOUT NOTES

Name: _____	Date: _____
Dept.: _____	Phone: _____ Fax: _____
Company: _____	Machine Type/Name: _____
Address: _____	_____



GENERAL DATA



Standard Ideal for FLAT Cables	Minimum Mounting Height (H min)	Minimum Bend Radius (KR min)	Single Cavity Width (Bj)	Single Cavity Height (hi)	Cavity Access Opening Width (C)	Overall Cross Section Width (Bk)	Overall Cross Section Height (hg)	Minimum Allowable Cable Width	Maximum Allowable Cable Width
EM-S15	2.80 (71)	0.55 (14)	0.59 (15)	0.24 (6)	-	0.69 (17.5)	0.30 (7.5)	-	0.55 (14)
EM-S43.20	7.28 (185)	0.55 (70)	1.69 (43)	0.79 (20)	1.10 (28)	1.89 (48)	0.93 (23.5)	1.30 (33)	1.65 (42)
EM-S45.20	7.28 (185)	0.55 (70)	1.77 (45)	0.79 (20)	1.30 (33)	1.93 (49)	0.93 (23.5)	1.50 (38)	1.73 (44)
EM-S42.16.5	7.28 (185)	0.55 (70)	1.77 (45)	0.65 (16.5)	1.30 (33)	1.93 (49)	0.79 (20)	1.50 (38)	1.73 (44)
EM-S67.11	7.28 (185)	0.55 (70)	2.64 (67)	0.43 (11)	1.97 (50)	2.83 (72)	0.59 (15)	2.17 (55)	2.56 (65)
QM-45.23	7.87 (200)	0.55 (70)	1.97 (50)	0.93 (23.5)	1.18 (30)	1.97 (50)	1.50 (38)	1.38 (35)	1.73 (44)

The PROFILE System Basics:



- Material:** 100% recyclable extruded Polypropylene with a wall thickness of 2.5 mm (see diagram)
- Operating Temperatures:** -40°C to +85°C
- Resistant to:** All common greases, lubricants, oils and coolants present in most machinery
- Cleanliness:** Class 10 (without operating contents)
- Operational Noise:** 9 - 12 dba quieter than traditional "link" carrier systems
- Longevity:** Up to 25+ million back and forth cycles
- Segment Length or Pitch:** 20 mm (see diagram)

How to calculate the length of PROFILE required:

For the most economical use of PROFILE, the fixed (non-moving) connection point should be mounted at the center of the total travel*, then...

The required length (LK) = ((Mounting Height ÷ 2) x 3.14) + (the total machine travel ÷ 2) + 60 mm **

Mounting Instructions

For EM and QM modules for flat cables, mounting brackets are not required. These modules can be attached directly to the machine's fixed and driven points by screwing directly through the module and then fastening with a self-tapping screw and washer.

* If the fixed connection point must be mounted away from the center point, add the distance that the fixed point is off-center to the overall length determined by the above equation to determine the length of PROFILE required.

** Then round up to the next pitch (multiples of 20 mm)

How To Order
1-800-443-4216

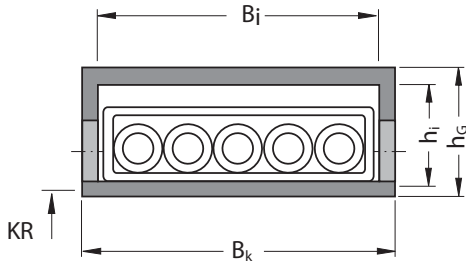


Number of Systems Req. x Carrier Type x Carrier Length

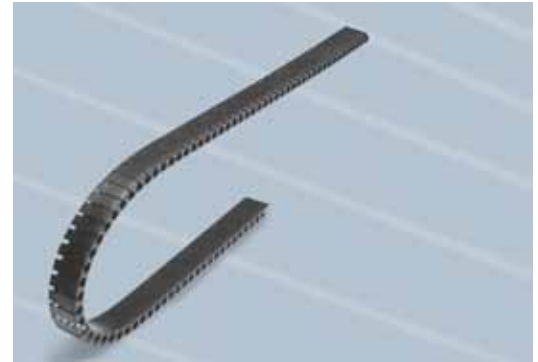
4 x EM-S43.20 x 2420 mm

PROFILE Special Modules Optimized for Flat Cables

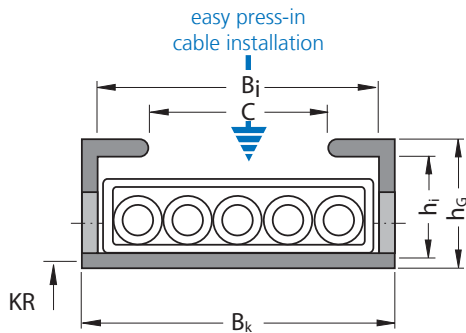
Special closed module with small dimensions



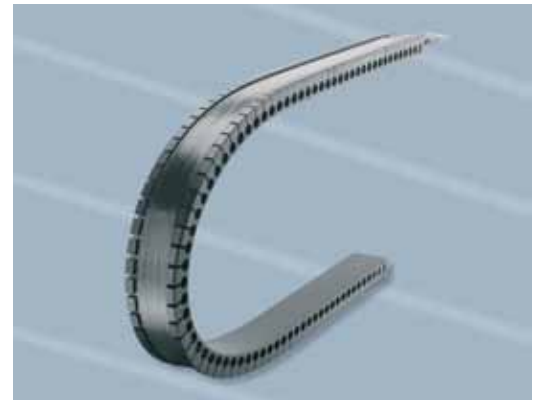
Modules:
EM-S15



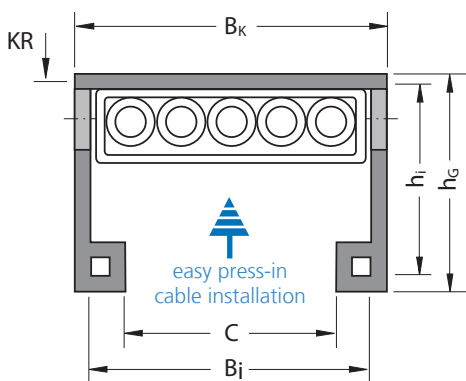
Special module for flat cables with opening on outside radius



Modules:
EM-S43.20
EM-S45.20
EM-S45.16.5
EM-S67.11



Special module for flat cables with opening on inside radius



Modules:
QM-45.23



Custom designed, made-to-order PROFILE types are available upon request.
Please call KabelSchlepp at **1.800.443.4216**
or E-MAIL us at sales@kabelschlepp.com for information.

KABELSCHLEPP

A member of the TSUBAKI GROUP

Phone: 414-354-1994
Fax: 414-354-1900

www.kabelschlepp.com
sales@kabelschlepp.com

KabelSchlepp America, Inc.
7100 W. Marcia Road, Milwaukee, WI 53223 - USA

