

# HabasitLINK®

## M3843 Tight Radius 1.5"

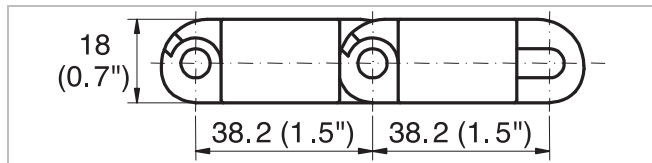
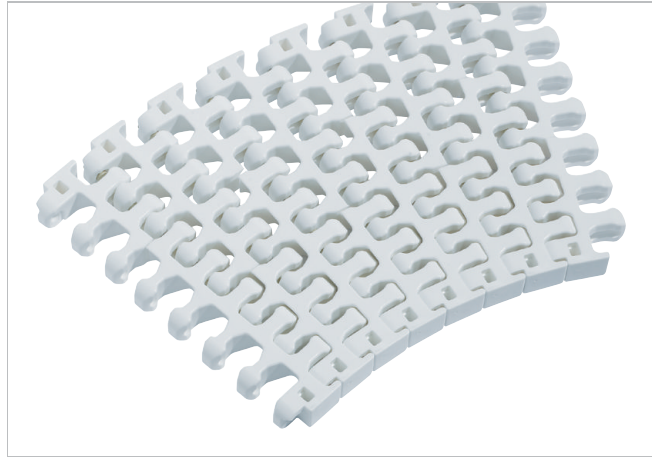


### Description

- For radius and straight conveying, ideal for applications with limited space (collapse factor 1.6)
- 37% open area; 50% open contact area; largest opening 9x18 mm (0.35"x0.7")
- Excellent for cooling and draining
- Easy to clean
- Food approved materials available
- Rod diameter 6 mm (0.24")
- "Open window" sprockets

### Available accessories

- Flights: Minimum indent 105 / 95 mm (4.1" / 3.7")
- Side guards
- Clip-on side tabs
- Clip-on hold-down tabs



### Belt data

Belt material		POM	PP	
Rod material		PA		POM
Nominal tensile strength $F'_N$ straight run	N/m lb/ft	29000 1986	20000 1370	20000 1370
Nominal tensile strength $F_N$ in curve <sup>(1)</sup>	N lbf	2250 506	1800 405	1800 405
Temperature range	°C °F	-40 - 93 -40 - 200	5 - 105 40 - 220	5 - 93 40 - 200
Belt weight $m_B$	kg/m <sup>2</sup> lb/sqft	11.8 2.42	8.0 1.64	8.0 1.64

<sup>(1)</sup> For  $b_0 > 600$  mm (23.6") higher values admissible. Refer to LINK-SeleCalc.

Diameter of idling rollers (minimum)		Diameter of support rollers (minimum)		Diameter for gravity take-up and center drive rollers (minimum)		Backbending radius for elevators without side guards or hold down devices (minimum)		Backbending radius for elevators with side guards or hold down devices (minimum)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.50	90	3.50	150	6	150	6	250.0	10

Use the largest possible backbending radius for elevators with side guards or hold-down devices.

### Standard range of belt widths $b_0$ and collapse factor $Q$ ( $R_{min} = Q \times b_0$ )

Belt width mm (nom.)	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
Belt width inch (nom.)	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38
Coll.fact. Q	1.50	1.53	1.55	1.57	1.59	1.60	1.61	1.62	1.62	1.63	1.63	1.64	1.65	1.66	1.68
Belt width mm (nom.)	1000	1050	1100	1150	1200										
Belt width inch (nom.)	40	42	44	46	48										
Coll.fact. Q	1.70	1.72	1.73	1.75	1.76										

Belt widths larger 1200 mm (48") not recommended.

Real belt widths are in most cases 0.1% to 0.3% smaller.

For PP material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.

For POM material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.

**Standard belt widths** in increments of 50 mm (2"). Non-standard widths are offered in increments of 25 mm (1"). Smallest possible width 175 mm (7").

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**For detailed material properties** refer to the HabasitLINK® Engineering Guidelines.

**The nominal tensile strength** is valid for 23 °C (73 °F). The admissible tensile force depends on the operating temperature near the drive sprockets. Within the temperature range allowed, the admissible tensile force may vary from 100% to 20% of the nominal tensile strength. For detailed information and correct calculation of effective tensile force refer to the Calculation Guide in the HabasitLINK® Engineering Guidelines.

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