

## M12 female 90° A-cod. with cable

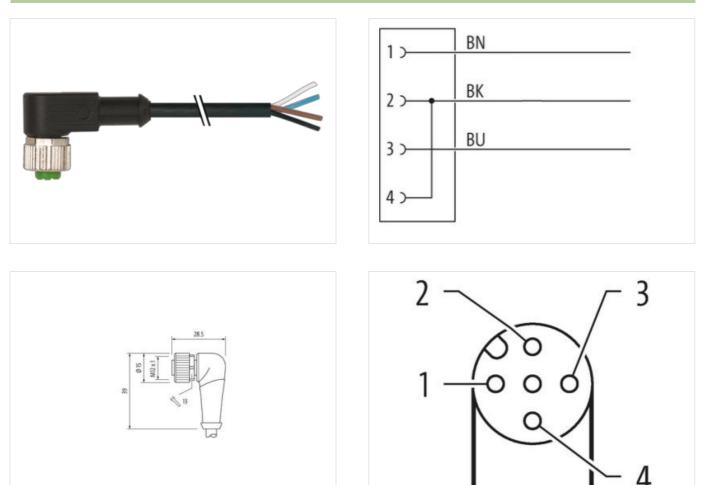
PUR 3x0.34 bk UL/CSA 10m

## **▲ NOTICE ▲** PRODUCT IS DISCONTINUED. PLEASE HAVE A LOOK AT THE ALTERNATIVE PRODUCTS.

Female 90° M12, 4-pole bridged Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## Link to Product

Illustration



Product may differ from Image



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Cable length	10 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP66K, IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879208772
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	250 V
Operating voltage DC max.	250 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Installation   Connection	
Mounting set	M12 x 1
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Material group (IEC 60664-1)	
Mechanical data   Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Cable	
Cable identification	623

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Approval (cable) UL (AWM-Style 20549/1731), CSA; CE conform   Cable weight [g/m] 35,97 g   Material vive Cu wire, bare   Resistor (core) max. 57 Ω/km (20 °C)   Single wire Ø (core) 0.1 mm   Construction (core) 42x 0.1 mm (multi-strand wire class 6)   Diameter (core) 3x 0.34 mm²   AWG similar to AWG 22   Material wire isolation PVC   Material wire isolation CFC-, cadmium-, silicone- and lead-free   Shore hardness wire isolation 1.25 mm ±5%.   Colorinumbering of wires black similar to RAL 9005   Stranding combination 3 wires twisted   Shield no   Material property (acket) CFC- halogen- cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant isolation   Stranding combination 3 wires twisted   Shield no   Material property (acket) CFC- halogen- cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant.   Shield no   Color jacket 80 ±5 A (PUC-under jacket); 85 ±5 A (PUR-jacket)   Outer-Ø (jacket) 4.3 mm ±5%.   Color jacket <	Cable Type	2 (PUR/PVC)
Material wire   Cu wire, bare     Resistor (core)   max. 57 Ω/km (20 °C)     Single wire Ø (core)   0.1 mm     Construction (core)   42× 0.1 mm (multi-strand wire class 6)     Diameter (core)   3 × 0.34 mm²     AWG   similar to AWG 22     Material wire isolation   PVC     Material property wire insulation   CFC-, cadmium-, silicone- and lead-free     Shore hardness wire isolation   1.25 mm ±5%     Colornumbering of wires   black similar to RAL 9005     Stranding combination   3 wires twisted     Shield   no     Material property (jacket)   CFC-, halogen-, cadmium-, silicone- and lead-free, matl, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant     Shield   no     Material property (jacket)   CFC-, halogen-, cadmium-, silicone- and lead-free, matl, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant     Shore hardness jacket   80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)     Outer-Ø (jacket)   4.3 mm ±5%     Color jacket   black     Chemical resistance   good resistance to oil, gasoline and chemicals     Nominal voltage	Approval (cable)	UL (AWM-Style 20549/1731), CSA; CE conform
Resistor (core)   max. 57 Ω/km (20 °C)     Single wire Ø (core)   0.1 mm     Construction (core)   42x 0.1 mm (multi-strand wire class 6)     Diameter (core)   3x 0.34 mm²     AWG   similar to AWG 22     Material wire isolation   PVC     Material property wire insultation   CFC-, cadmium-, silicone- and lead-free     Shore hardness wire isolation   43 ± 5 D     Wire-Ø incl. isolation   1.25 mm ±5%     Color/numbering of wires   black similar to RAL 9005     Stranding combination   3 wires twisted     Shield   no     Material property (jacket)   CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant     Shield   no     Material property (jacket)   CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant     Shore hardness jacket   80 ± 5 A (PVC-under jacket); 85 ± 5 A (PUR-jacket)     Outer-Ø (jacket)   4.3 mm ±5%     Color jacket   black     chemical resistance   good resistance to oil, gasoline and chemicals     Nominal volta	Cable weight [g/m]	35,97 g
Single wire Ø (core) 0.1 mm   Construction (core) 42× 0.1 mm (multi-strand wire class 6)   Diameter (core) 3× 0.34 mm²   AWG similar to AWG 22   Material wire isolation PVC   Material property wire insulation CFC-, cadmium-, silicone- and lead-free   Shore hardness wire isolation 43 ± 5 D   Wire-Ø incl. isolation 1.25 mm ±5%   Color/numbering of wires black similar to RA 9005   Stranding combination 3 wires twisted   Shield no   Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant   Shore hardness jacket 80 ± 5 A (PVC-under jacket); 85 ± 5 A (PUR-jacket)   Outer-Ø (jacket) 4.3 mm ±5%   Color jacket black   chemical resistance good resistance to oil, gasoline and chemicals   Nominal voltage U.300 V AC   Temperature range (fixed) -30+80 °C   Temperature range (mobile) -5+80 °C   Bending radius (fixed) 10x outer Ø   Non obending cycles (C-track) max. 3 m/s	Material wire	Cu wire, bare
Construction (core) 42× 0.1 mm (multi-strand wire class 6)   Diameter (core) 3× 0.34 mm²   AWG similar to AWG 22   Material wire isolation PVC   Material property wire insulation CFC-, cadmium-, silicone- and lead-free   Shore hardness wire isolation 43 ± 5 D   Wire-Ø incl. isolation 1.25 mm ±5%   Color/numbering of wires black similar to RAL 9005   Stranding combination 3 wires twisted   Shield no   Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant   Shore hardness jacket PUR/PVC   Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant   Shore hardness jacket 80 ± 5 A (PVC-under jacket); 85 ± 5 A (PUR-jacket)   Outer-Ø (jacket) 4.3 mm ±5%   Color jacket black   Chemical resistance good resistance to oil, gasoline and chemicals   Nominal voltage UL 300 V AC   Current load capacity to DIN VDE 0298-4   Temperature range (fixed) -30+80 °C	Resistor (core)	max. 57 Ω/km (20 °C)
Diameter (core)3 x 0.34 mm²AWGsimilar to AWG 22Material wire isolationPVCMaterial property wire insulationCFC-, cadmium-, silicone- and lead-freeShore hardness wire isolation43 ±5 DWire-Ø incl. isolation1.25 mm ±5%Color/numbering of wiresblack similar to RAL 9005Stranding combination3 wires twistedShieldnoMaterial jacketPUR/PVCMaterial property (jacket)CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistantShore hardness jacket80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)Outer-Ø (jacket)4.3 mm ±5%Color jacketblackColor jacketblackUL 300 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °CBending radius (fixed)10× outer ØBending radius (fixed)10× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3 m/s	Single wire Ø (core)	0.1 mm
AWGsimilar to AWG 22Material wire isolationPVCMaterial property wire insulationCFC-, cadmium-, silicone- and lead-freeShore hardness wire isolation43 ±5 DWire-Ø incl. isolation1.25 mm ±5%Color/numbering of wiresblack similar to RAL 9005Stranding combination3 wires twistedShieldnoMaterial jacketPUR/PVCMaterial property (jacket)CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistantShore hardness jacket80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)Outer-Ø (jacket)4.3 mm ±5%Color jacketblackblackblackchemical resistancegood resistance to oil, gasoline and chemicalsNominal voltageUL 300 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °CBending radius (fixed)10× outer ØBending radius (fixed)10× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Construction (core)	42× 0.1 mm (multi-strand wire class 6)
Material wire isolation   PVC     Material property wire insulation   CFC-, cadmium-, silicone- and lead-free     Shore hardness wire isolation   43 ±5 D     Wire-Ø incl. isolation   1.25 mm ±5%     Color/numbering of wires   black similar to RAL 9005     Stranding combination   3 wires twisted     Shield   no     Material property (jacket)   CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion- resistant, hydrolysis and microbial resistant     Shore hardness jacket   80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)     Outer-Ø (jacket)   4.3 mm ±5%     Color jacket   black     chemical resistance   good resistance to oil, gasoline and chemicals     Nominal voltage   UL 300 V AC     Current load capacity   to DIN VDE 0298-4     Temperature range (fixed)   -30+80 °C     Bending radius (fixed)   10× outer Ø     Bending radius (gynamic)   15× outer Ø     No. of bending cycles (C-track)   max. 3.3 m/s	Diameter (core)	3× 0.34 mm <sup>2</sup>
Material property wire insulationCFC-, cadmium-, silicone- and lead-freeShore hardness wire isolation43 ± 5 DWire-Ø incl. isolation1.25 mm ±5%Color/numbering of wiresblack similar to RAL 9005Stranding combination3 wires twistedShieldnoMaterial property (jacket)PUR/PVCMaterial property (jacket)CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistantShore hardness jacket80 ± 5 A (PVC-under jacket); 85 ± 5 A (PUR-jacket)Outer-Ø (jacket)4.3 mm ±5%Color jacketblackchemical resistancegood resistance to oil, gasoline and chemicalsNominal voltageUL 300 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (mobile)-5+80 °CBending radius (fixed)10× outer ØBending radius (fixed)10× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	AWG	similar to AWG 22
Shore hardness wire isolation43 ±5 DWire-Ø incl. isolation1.25 mm ±5%Color/numbering of wiresblack similar to RAL 9005Stranding combination3 wires twistedShieldnoMaterial jacketPUR/PVCMaterial property (jacket)CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion- resistant, hydrolysis and microbial resistantShore hardness jacket80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)Outer-Ø (jacket)4.3 mm ±5%Color jacketblackChemical resistancegood resistance to oil, gasoline and chemicalsNominal voltageUL 300 V ACTestpottage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-5+40 °CBending radius (fixed)10× outer ØBending radius (fixed)10× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Material wire isolation	PVC
Wire-Ø incl. isolation1.25 mm ±5%Color/numbering of wiresblack similar to RAL 9005Stranding combination3 wires twistedShieldnoMaterial jacketPUR/PVCMaterial property (jacket)CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion- resistant, hydrolysis and microbial resistantShore hardness jacket80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)Outer-Ø (jacket)4.3 mm ±5%Color jacketblackchemical resistancegood resistance to oil, gasoline and chemicalsNominal voltageUL 300 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °CBending radius (fixed)10× outer ØBending radius (fixed)10× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Material property wire insulation	CFC-, cadmium-, silicone- and lead-free
Color/numbering of wiresblack similar to RAL 9005Stranding combination3 wires twistedShieldnoMaterial jacketPUR/PVCMaterial property (jacket)CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion- resistant, hydrolysis and microbial resistantShore hardness jacket80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)Outer-Ø (jacket)4.3 mm ±5%Color jacketblackchemical resistancegood resistance to oil, gasoline and chemicalsNominal voltageUL 300 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °CBending radius (fixed)10× outer ØBending radius (dynamic)15× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3 m/s	Shore hardness wire isolation	43 ±5 D
Stranding combination3 wires twistedShieldnoMaterial jacketPUR/PVCMaterial property (jacket)CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion- resistant, hydrolysis and microbial resistantShore hardness jacket80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)Outer-Ø (jacket)4.3 mm ±5%Color jacketblackchemical resistancegood resistance to oil, gasoline and chemicalsNominal voltageUL 300 V ACTest voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °CBending radius (fixed)10× outer ØBending radius (dynamic)15× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Wire-Ø incl. isolation	1.25 mm ±5%
ShieldnoMaterial jacketPUR/PVCMaterial property (jacket)CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistantShore hardness jacket80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)Outer-Ø (jacket)4.3 mm ±5%Color jacketblackchemical resistancegood resistance to oil, gasoline and chemicalsNominal voltageUL 300 V ACTest voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °CBending radius (fixed)10× outer ØBending radius (dynamic)15× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Color/numbering of wires	black similar to RAL 9005
Material jacketPUR/PVCMaterial property (jacket)CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion- resistant, hydrolysis and microbial resistantShore hardness jacket80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)Outer-Ø (jacket)4.3 mm ±5%Color jacketblackchemical resistancegood resistance to oil, gasoline and chemicalsNominal voltageUL 300 V ACTest voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °CBending radius (fixed)10× outer ØBending radius (dynamic)15× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Stranding combination	3 wires twisted
Material property (jacket)CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion- resistant, hydrolysis and microbial resistantShore hardness jacket80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)Outer-Ø (jacket)4.3 mm ±5%Color jacketblackchemical resistancegood resistance to oil, gasoline and chemicalsNominal voltageUL 300 V ACTest voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °CTemperature range (mobile)-5+80 °CBending radius (fixed)10× outer ØBending radius (dynamic)15× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Shield	no
Matchal property (jacket)resistant, hydrolysis and microbial resistantShore hardness jacket80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)Outer-Ø (jacket)4.3 mm ±5%Color jacketblackchemical resistancegood resistance to oil, gasoline and chemicalsNominal voltageUL 300 V ACTest voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °CTemperature range (mobile)-5+80 °CBending radius (fixed)10× outer ØBending radius (fixed)15× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Material jacket	PUR/PVC
Outer-Ø (jacket)4.3 mm ±5%Color jacketblackchemical resistancegood resistance to oil, gasoline and chemicalsNominal voltageUL 300 V ACTest voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °CTemperature range (mobile)-5+80 °CBending radius (fixed)10× outer ØBending radius (dynamic)15× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Material property (jacket)	CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion- resistant, hydrolysis and microbial resistant
Color jacketblackchemical resistancegood resistance to oil, gasoline and chemicalsNominal voltageUL 300 V ACTest voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °CTemperature range (mobile)-5+80 °CBending radius (fixed)10× outer ØBending radius (dynamic)15× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Shore hardness jacket	80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)
chemical resistancegood resistance to oil, gasoline and chemicalsNominal voltageUL 300 V ACTest voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °CTemperature range (mobile)-5+80 °CBending radius (fixed)10× outer ØBending radius (dynamic)15× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Outer-Ø (jacket)	4.3 mm ±5%
Nominal voltageUL 300 V ACTest voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °CTemperature range (mobile)-5+80 °CBending radius (fixed)10× outer ØBending radius (dynamic)15× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Color jacket	black
Test voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °CTemperature range (mobile)-5+80 °CBending radius (fixed)10× outer ØBending radius (dynamic)15× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	chemical resistance	good resistance to oil, gasoline and chemicals
Current load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °CTemperature range (mobile)-5+80 °CBending radius (fixed)10× outer ØBending radius (dynamic)15× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Nominal voltage	UL 300 V AC
Temperature range (fixed)-30+80 °CTemperature range (mobile)-5+80 °CBending radius (fixed)10× outer ØBending radius (dynamic)15× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Test voltage	2000 V AC
Temperature range (mobile) -5+80 °C   Bending radius (fixed) 10× outer Ø   Bending radius (dynamic) 15× outer Ø   No. of bending cycles (C-track) max. 2 Mio. (25 °C)   Travel speed (C-track) max. 3.3 m/s	Current load capacity	to DIN VDE 0298-4
Bending radius (fixed) 10× outer Ø   Bending radius (dynamic) 15× outer Ø   No. of bending cycles (C-track) max. 2 Mio. (25 °C)   Travel speed (C-track) max. 3.3 m/s	Temperature range (fixed)	-30+80 °C
Bending radius (dynamic) 15× outer Ø   No. of bending cycles (C-track) max. 2 Mio. (25 °C)   Travel speed (C-track) max. 3.3 m/s	Temperature range (mobile)	-5+80 °C
No. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Bending radius (fixed)	10× outer Ø
Travel speed (C-track) max. 3.3 m/s	Bending radius (dynamic)	15× outer Ø
	No. of bending cycles (C-track)	max. 2 Mio. (25 °C)
Acceleration (C-track) max. 5 m/s <sup>2</sup>	Travel speed (C-track)	max. 3.3 m/s
	Acceleration (C-track)	max. 5 m/s <sup>2</sup>

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