

M12 male 0° / M12 female 0° A-cod. V2A

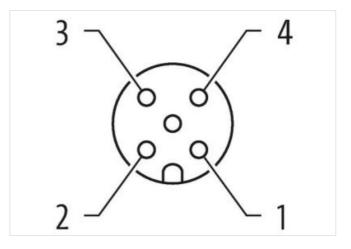
PUR 4x0.34 bk UL/CSA 1m

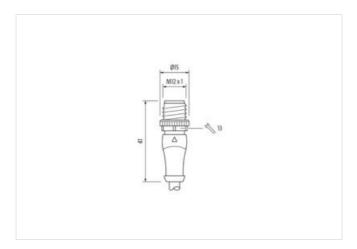
Male straight – female straight M12 – M12, 4-pole Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request Stainless steel 1.4305 (V2A) Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

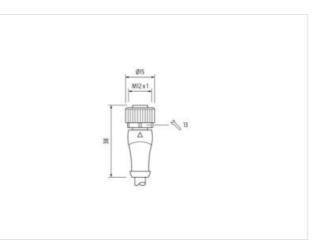
Link to Product

Illustration



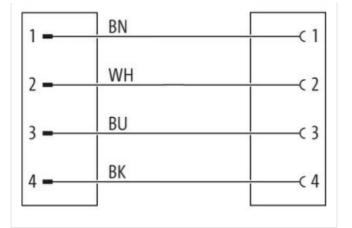


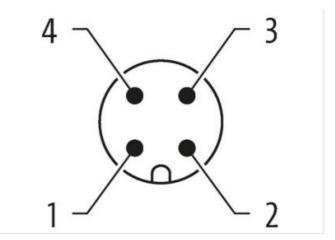




The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-20 Murrelektronik GmbH | Falkenstraße 3 | 71570 Oppenweiler | Fon +49 (71 91) 47-0 | Fax +49 (71 91) 47-491000 | shop@murrelektronik.de | shop.murrelektronik.de







Product may differ from Image



Cable length	1 m
Side 1	
Tightening torque	0,6 Nm
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Coding	A
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP66K, IP67
Side 2	
Tightening torque	0,6 Nm
Family construction form	M12
Thread	M12 x 1
Coding	A
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	4048879355421
Packaging unit	1
Electrical data Supply	
Operating voltage AC max.	050.1/
operating voltage AO max.	250 V
Operating voltage DC max.	250 V 250 V

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Murrelektronik GmbH | Falkenstraße 3 | 71570 Oppenweiler | Fon +49 (71 91) 47-0 | Fax +49 (71 91) 47-491000 | shop@murrelektronik.de | shop.murrelektronik.de



Cable weight [g/m]42.68 gMaterial wireCu wire, bareResistor (core)max. 57 Ω/km (20 °C)Single wire Ø (core)0.1 mmConstruction (core)42 x 0.1 mm (multi-strand wire class 6)Diameter (core)4 × 0.34 mm ⁰ 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 wiresbr, bk, bl, whStranding combination4 wires twistedShieldnoMaterial 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 & mm ±5%Color jacketblackchemical resistancegood resistance to il, gasoline and chemicalsNormial voltageUL 300 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °C	Operating voltage DC (UL-listed)	30 V
Additorial condition protection degreeinserted, sorewedPolution Degree3Material group (EV 6064-1)1Material dots (EV 6064-1)ValuationMaterial dots (EV 6064-1)Starlies steel 1.405 (V2A)Material dots (EV 6064-1)Starlies steel 1.405 (V2A)Material dots (Evented Starlies steel 1.405 (V2A)Valuation (EV 6000000000000000000000000000000000000	Current operating per contact max.	4 A
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Material housingPURLocking makerialSkinkess skeh 1.4305 (V2A)Mochanical data [Mounting dataMounting mithodinserted, screwed, Shaking protoctionEnvironmental characteristics [ClimaticEnvironmental characteristics [ClimaticOperating temperature max.25 °COperating temperature max.25 °CAdditional condition temperature may.25 °CMotor stain reliefProtect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable files.Note on stain reliefProtect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable files.ConternityProtect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable files.Cable on start methodS14 ENTOFe-2-101 (M12)CableCable Start S	Material group (IEC 60664-1)	
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Cable Type2 (PUR/PVC)Approval (cable)UL (AWM-Style 20549/1731), CSA; CE conformCable weight [g/m]42,68 gMaterial wireCu wire, bareResistor (core)max. 57 Okm (20 °C)Single wire Ø (core)0.1 mmConstruction (core)42× 0.1 mm (multi-strand wire class 6)Diameter (core)4.× 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 wiresbr, bk, bl, whStranding combination4 wires twistedShieldnoMaterial property (jacket)CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistantShieldnoMaterial property (jacket)CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistantShieldnoMaterial property (jacket)85 ± 5 A (PUR-jacket)Outer-Ø (jacket)4.6 mm ±5%Color jacketblackchemical resistancegood resistance to oil, gasoline and chemicalsNominal voltageUL 300 V ACTest voltage2000 V ACTemperature range (fixed)-30+80 °C	Cable	
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Cable weight [g/m]42.68 gMaterial wireCu wire, bareResistor (core)max. 57 Ω/km (20 °C)Single wire Ø (core)0.1 mmConstruction (core)42 x 0.1 mm (multi-strand wire class 6)Diameter (core)4 x 0.34 mm ⁰ 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 wiresbr, bk, bl, whStranding combination4 wires twistedShieldnoMaterial 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)4.6 mm ±5%Color jacketblackchemical resistancegood resistance to oil, gasoline and chemicalsNormial voltageUL 300 V ACTest voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-3+80 °C	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) 4× 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 br, bk, bl, wh Stranding combination 4 wires twisted Shield no Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant grouperty (jacket) 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) 4.6 mm ±5% Color jacket black chemical resistance good resistance to oil, gasoline and chemica	Approval (cable)	UL (AWM-Style 20549/1731), CSA; CE conform
Resistor (core)max. 57 Ω/km (20 °C)Single wire Ø (core)0.1 mmConstruction (core)42× 0.1 mm (multi-strand wire class 6)Diameter (core)4× 0.34 mm²AWGsimilar to AWG 22Material wire isolationPVCMaterial wire isolationCFC-, cadmium-, silicone- and lead-freeShore hardness wire isolation43 ± 5 DWire-Ø incl. isolation1.25 mm ±5%Colorhumbering of wiresbr, bk, bl, whStranding combination4 wires twistedShieldnoMaterial iproperty (jacket)CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion- resistant, hydrolysis and microbial resistantShore hardness jacket9UR/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)4.6 mm ±5%Color jacketblackchemical resistancegood resistance to oil, gasoline and chemicalsNominal voltageU. 300 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °C	Cable weight [g/m]	42,68 g
Single wire Ø (core)0.1 mmConstruction (core)42 × 0.1 mm (multi-strand wire class 6)Diameter (core)4 × 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 wiresbr, bk, bl, whStranding combination4 wires twistedShieldnoMaterial 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)4.6 mm ±5%Color jacketblackchemical resistancegood resistance to oil, gasoline and chemicalsNominal voltageUL 300 V ACTest voltage2000 V ACCurrent Ioad capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °C	Material wire	Cu wire, bare
Construction (core)42× 0.1 mm (multi-strand wire class 6)Diameter (core)4× 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 wiresbr, bk, bl, whStranding combination4 wires twistedShieldnoMaterial 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)4.6 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 °C	Resistor (core)	max. 57 Ω/km (20 °C)
Diameter (core)4 × 0.34 mm²AWGsimilar to AWG 22Material wire isolationPVCMaterial property wire insulationCFC-, cadmium-, silicone- and lead-freeShore hardness wire isolation43 ± 5 DWire-O incl. isolation1.25 mm ±5%Color/numbering of wiresbr, bk, bl, whStranding combination4 wires twistedShieldnoMaterial 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-Q (jacket)4.6 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 °C	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 wiresbr, bk, bl, whStranding combination4 wires twistedShieldnoMaterial 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)4.6 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 °C	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 br, bk, bl, wh Stranding combination 4 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) Outer-Ø (jacket) 4.6 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	Diameter (core)	4× 0.34 mm ²
Material property wire insulationCFC-, cadmium-, silicone- and lead-freeShore hardness wire isolation43 ± 5 DWire-Ø incl. isolation1.25 mm ±5%Color/numbering of wiresbr, bk, bl, whStranding combination4 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)4.6 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 °CTemperature range (mobile)-5+80 °C	AWG	similar to AWG 22
Shore hardness wire isolation43 ±5 DWire-Ø incl. isolation1.25 mm ±5%Color/numbering of wiresbr, bk, bl, whStranding combination4 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)4.6 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 °C	Material wire isolation	PVC
Wire-Ø incl. isolation1.25 mm ±5%Color/numbering of wiresbr, bk, bl, whStranding combination4 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)4.6 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 °C	Material property wire insulation	CFC-, cadmium-, silicone- and lead-free
Color/numbering of wiresbr, bk, bl, whStranding combination4 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)4.6 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 °C	Shore hardness wire isolation	43 ±5 D
Stranding combination4 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)4.6 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 °C	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)4.6 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 °C	Color/numbering of wires	br, bk, bl, wh
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)4.6 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 °C	Stranding combination	4 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)4.6 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 °C	Shield	no
Material property (jacket)resistant, hydrolysis and microbial resistantShore hardness jacket80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)Outer-Ø (jacket)4.6 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 °C	Material jacket	PUR/PVC
Outer-Ø (jacket)4.6 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 °C	Material property (jacket)	
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 °C	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 °C	Outer-Ø (jacket)	4.6 mm ±5%
Nominal voltage UL 300 V AC Test voltage 2000 V AC Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -30+80 °C Temperature range (mobile) -5+80 °C	Color jacket	black
Test voltage 2000 V AC Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -30+80 °C Temperature range (mobile) -5+80 °C	chemical resistance	good resistance to oil, gasoline and chemicals
Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -30+80 °C Temperature range (mobile) -5+80 °C	Nominal voltage	UL 300 V AC
Temperature range (fixed) -30+80 °C Temperature range (mobile) -5+80 °C	Test voltage	2000 V AC
Temperature range (mobile) -5+80 °C	Current load capacity	to DIN VDE 0298-4
	Temperature range (fixed)	-30+80 °C
	Temperature range (mobile)	-5+80 °C
Bending radius (fixed) 10× outer Ø		

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-20

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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
Acceleration (C-track)	max. 5 m/s ²

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