

## M12 male 90° / M8 female 0° A-cod.

PUR 4x0.25 bk UL/CSA+drag ch. 1.2m

 $\label{eq:malestraight} \begin{array}{l} \text{Male } 90^{\circ} - \text{female straight} \\ \text{M12} - \text{M8, 3-pole} \end{array}$ 

with cable sleeves

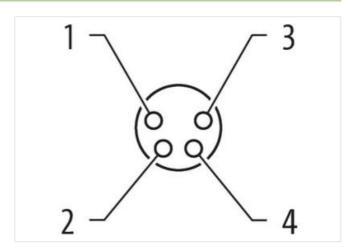
Plastic housings with good resistance against chemicals and oils.

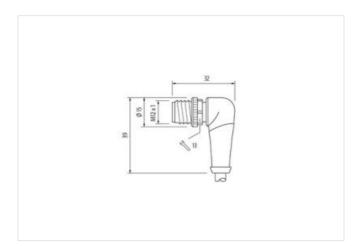
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

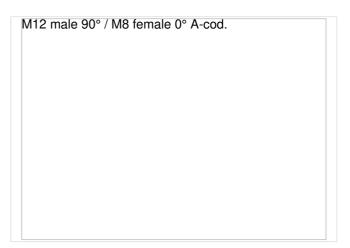
## **Link to Product**

## Illustration



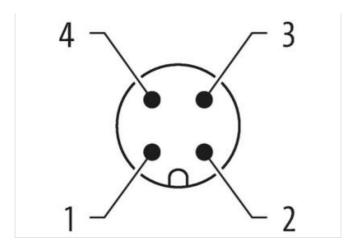


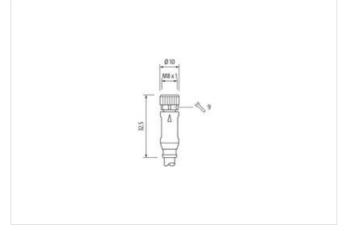


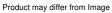




stay connected

















Cable length	1,2 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 $\emptyset$ )	10 mm
Coding	A
Material	PUR
No. of poles	4
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Tightening torque	0,4 Nm
Mounting method	inserted, screwed
Family construction form	M8
Thread	M8 x 1
suitable for corrugated tube (internal $\emptyset$ )	6,5 mm
Coding	A
Material	PUR
No. of poles	4
Width across flats	SW9
Degree of protection (EN IEC 60529)	IP65, 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



stay connected

Table   Tabl	ETIM-5.0	EC001855
Facilitation   California   C	customs tariff number	85444290
	GTIN	4048879854924
Operating voltage AC max. 50 V Operating voltage DC max. 60 V Operating voltage DC max. 60 V Operating voltage DC max. 60 V Operating voltage DC (UL-slaed) 30 V Operating voltage DC (UL-slaed) 30 V Operating voltage DC (UL-slaed) 30 V Operating voltage DC (UL-slaed) 4A Obvice protection   Electrical  Additional condition protection degree insented, screwed  Pollution Degree 3 Raided surge voltage 1,5 kV Malerial group (IEC 90084-1) I  Mechanical data   Marchal data  Mechanical data   Marchal data  Mechanical data   Marchal data  Zinc dis-casting Mechanical data   Mounting data  Muchanical data   Mounting data  Muchanical data   Mounting data  Muchanical data   Mounting data  Muchanical characteristics   Climatic  Operating Inereprature max. 45 °C  Adottional condition temperature may. 45 °C  Adottional condition temperature may. 45 °C  Adottional condition temperature range depending on cable quality  Important Installation notes  Note on strain ruliol  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending frotes.  Contermity  Product standard  DIN EN 61076 2-101 (M12), DIN EN 61076 2-104 (M8)  Installation   Cable   Cable   Cable   Cables   Ca	Packaging unit	1
Operating voltage DC max. 69 V Operating voltage AC (UL-listed) 30 V Operating voltage AC (UL-listed) 30 V Ourrent operating voltage AC (UL-listed) 30 V Ourrent operating per contact max. 4 A  Device protection   Electrical Additional condition protection degree inserted, screwed Pollution Degree 3   Additional condition protection degree   1,5 kV Material group (IEC 60664-1)   1  Mochanical data   Material data Coating of fitting   Nickelled Coating of fitting   Nickelled Coating of fitting   Nickelled   2 inc dis-casting Makerial screw connection   3 inc dis-casting Makerial screw connection   4 inc dis-casting	Electrical data   Supply	
Operating voltage DC max. 69 V Operating voltage AC (UL-listed) 30 V Operating voltage AC (UL-listed) 30 V Ourrent operating voltage AC (UL-listed) 30 V Ourrent operating per contact max. 4 A  Device protection   Electrical Additional condition protection degree inserted, screwed Pollution Degree 3   Additional condition protection degree   1,5 kV Material group (IEC 60664-1)   1  Mochanical data   Material data Coating of fitting   Nickelled Coating of fitting   Nickelled Coating of fitting   Nickelled   2 inc dis-casting Makerial screw connection   3 inc dis-casting Makerial screw connection   4 inc dis-casting	Operating voltage AC max	50 V
Operating voltage AC (UL-listed) 30 V Operating voltage DC UL-listed) 30 V Operating voltage DC UL-listed) 30 V Operating voltage DC UL-listed) 30 V Operating voltage DC UL-listed SAC STAND SAC ST	· · · · · · · · · · · · · · · · · · ·	
Operating voltage DC (LL-listed) 30 V Current operating per contact max. 4 A  Additional condition protection degree inserted, screwed  Pollution Degree 3  Raded surge voltage 1,5 kV Material group (IEC 60664.1) I  Mechanical data (Material data  Coating oloring material mine of the pattern		
Current operating per contact max.  Device protection   Electrical  Additional condition protection degree   inserted, screwed    Pollution Degree   3  Rained surge voltage   1,5 kV    Machanical data   Material data    Material group (IEC 60664+1)        Machanical data   Material data    Machanical data   Material data    Michanical data   Material data    Michanical data   Material data    Nickeled    Coating obding    Material screw connection   Zinc die-casting    Material promorature max.   25 °C    Coperating temperature max.   25 °C    Coperating temperature max.   25 °C    Additional condition temperature range   depending on cable quality    Important installation notes    Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.    Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Contornity    Product standard   DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)    Installation   Cable    Cable identification   Cable    Cable identifi		
Additional Condition Protection degree inserted, screwed Foliation Degree 3 Rated surge voltage 1,5 kV Material group (IEC 60664-1)   I Machanical data   Material data   Machanical data   Machanical data   Material data   Machanical data   Material data   Machanical data   Material data   Machanical		
Pollution Degree 3 Rated surge voltage 1,5 kV Material group (IEC 606841) I Mechanical data   Material data Coating looking Nickeled Coating looking nickel plated Looking material Zinc die-casting Material screw connection Zinc die-casting		
Pollution Degree 3 Rated surge voltage 1,5 kV Material group (IEC 606841) I Mechanical data   Material data Coating looking Nickeled Coating looking nickel plated Looking material Zinc die-casting Material screw connection Zinc die-casting	Additional condition protection degree	inserted, screwed
Rated surge voltage 1,5 kV  Material group (IEC 60664-1) I  Coating locking Mechanical data   Material data  Coating locking nikkel plated  Locking material Zinc die-casting  Material serve vonnection Zinc die-casting  Material serve vonnection 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  Abdictional condition temperature range depending on cable quality  More on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Altentions: Observe the permissible bending ractii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)  Installation   Cable   Cable identification   Sal   Cable identifi	<u> </u>	
Meterial group (IEC 60664-1)    Mechanical data   Material data   Coating locking   Nickeled   Coating   Nickeled   Coating   Nickeled   Coating   Nickeled   Coating   Nickeled   Coating   Nickeled   Nic	=	-
Mechanical data   Material data   Mickeled   Coating of fitting   Nickeled		
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  Coperating temperature min. 25 °C  Operating temperature min. 25 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)  Installation   Cable  Cable identification 631  Cable Type 3  Aucked Cofor black  Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white  Traversing distance (C-track) 10 m @ 25 °C   Indizontal  Cable weight 33 g/m  Material jacket PUR  Shore hardness jacket 99 ± 5 Shore A  Freedom from ingredients (jacket) 4.5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  4 6  Outer diameter insulation 1,25 mm		
Coating of fitting naterial Zinc die-casting naterial Zinc die-casting Naterial screw connection Zinc die-casting Naterial screw connection Zinc die-casting Naterial screw connection inserted, screwed, Shaking protection  Environmental characteristics   Climatic Operating temperature min. 25 °C Coperating temperature max. 85 °C Additional condition temperature and depending on cable quality Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)  Installation   Cable Cable Cable (Certack) Size of Certification S		Nickeled
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 min25 °C Operating temperature max. 85 °C Additional condition temperature range depending on cable quality  Inportant instituation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)  Installation   Cable Cable Type 3 Jacket Color black Type of Certificate  Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white Traversing distance (C-track) 10 m @ 25 °C   horizontal Cable weight 33 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4,5 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP		
Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Note on bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)  Installation   Cable  Cable identification 631  Cable Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white  Traversing distance (C-track) 10 mg 62 5°C   horizontal Cable wighth 33 g/m  Material jacket PUR  Shore hardness jacket PUR  Shore hardness jacket PUR  Amount mount gradients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wire insulation PP  Amount wire insulation PP		· · · · · · · · · · · · · · · · · · ·
Mechanical data   Mounting data  Mounting method inserted, Screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min		
Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN En 61076-2-101 (M12), DIN EN 61076-2-104 (M8)  Installation   Cable  Cable identification 631  Cable Type 3  Jacket Color black  Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weigth 33 g/m  Material jacket PUR  Shore hardness jacket PUR  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,5 mm  Tollerance outer diameter (sheath) ± 5 %  Amount stries in sulfactor (sheath) ± 5 %  Amount wire insulation PP  Amount wires 4		
Environmental characteristics   Climatic  Operating temperature min. 25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)  Installation   Cable  Cable identification 631  Cable identification 631  Cable (Color black Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weight 33 g/m  Material jacket PUR  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm		inserted screwed Shaking protection
Operating temperature min.	-	montes, or ones, or a mig processor.
Operating temperature max. 85 °C Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)  Installation   Cable  Cable identification 631  Cable Type 3  Jacket Color black  Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white  Traversing distance (C-track) 10 m@ 25 °C   horizontal  Cable weight 33 g/m  Material jacket 90±5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation 1,25 mm	·	25 ∘ ∩
Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)  Installation   Cable  Cable identification 631  Cable Type 3  Jacket Color black  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white  Traversing distance (C-track) 10 m@ 25 °C   horizontal  Cable weight 33 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) ± 5 %  Material wire insulation PP  Amount wires 4  Actional Cable wire insulation PP  Amount wires 4  Actional Cable wire insulation PP  Amount wires 4  Actional Cable depending on cable quality  depending on cable quality  Attention: Observe the permissible bending radii when laying cables, by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending radii when laying cables, as the IP protection class can be endangered by excessive bending facility when laying cables, as the IP protection class can be endangered by excessive bending facility when laying cables, as the IP protection class can be endangered by excessive bending facility when laying cables, as the IP protection class can be endangered by excessive bending facility when laying cables, as the IP protection class can be endangered by excessive bending facility when laying cables, as the IP protection class can be endangered by excessive bending fa	<u> </u>	
Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)  Installation   Cable  Cable identification 631  Cable Type 3  Jacket Color black  Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weight 33 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) 125 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Amount stranding 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)  Installation   Cable  Cable identification 631  Cable Type 3  Jacket Color black Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weight 33 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) 1ead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm		dopontaling on outro quality
Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)  Installation   Cable  Cable identification 631  Cable Type 3  Jacket Color black  Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weigth 33 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Attention: Observe the permissible bending forces.  Attention: Observe the ferone (AM8)  Attention: Observe the f	•	
endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)  Installation   Cable  Cable identification 631  Cable Type 3  Jacket Color black  Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weigth 33 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm	Note on strain relief	
Product standard DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)  Installation   Cable Cable identification 631  Cable Type 3  Jacket Color black Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted wire arrangement brown, black, blue, white Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weigth 33 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) ± 5 %  Material wire insulation PP  Amount wires 4  August 4  August 5  August 6  August 6  August 6  August 7  Au	Note on bending radius	<b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Cable identification 631 Cable Type 3 Jacket Color black Type of Certificate cURus Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white Traversing distance (C-track) 10 m @ 25 °C   horizontal Cable weigth 33 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) 4,5 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4  August 10 m (20 m) Amount wires 4  August 20 m) August 20	Conformity	
Cable identification 631 Cable Type 3 Jacket Color black Type of Certificate cURus Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white Traversing distance (C-track) 10 m @ 25 °C   horizontal Cable weigth 33 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter insulation 1,25 mm	Product standard	DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)
Cable Type 3 Jacket Color black Type of Certificate cURus Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weigth 33 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4,5 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter insulation 1,25 mm	Installation   Cable	
Acket Color black Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted wire arrangement brown, black, blue, white Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weigth 33 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm	Cable identification	631
Jacket Color black Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted wire arrangement brown, black, blue, white  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weigth 33 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm	Cable Type	3
Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weigth 33 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm	Jacket Color	black
Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weigth 33 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm	Type of Certificate	
brown, black, blue, white  Traversing distance (C-track)  10 m @ 25 °C   horizontal  Cable weigth  33 g/m  Material jacket  PUR  Shore hardness jacket  90 ± 5 Shore A  Freedom from ingredients (jacket)  lead-free, cadmium-free, CFC-free, halogen-free  Outer-diameter (jacket)  4,5 mm  Tolerance outer diameter (sheath)  ± 5 %  Material wire insulation  PP  Amount wires  4  Outer diameter insulation  1,25 mm	Amount stranding	
Traversing distance (C-track)  10 m @ 25 °C   horizontal  Cable weigth  33 g/m  Material jacket  PUR  Shore hardness jacket  90 ± 5 Shore A  Freedom from ingredients (jacket)  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket)  4,5 mm  Tolerance outer diameter (sheath)  ± 5 %  Material wire insulation  PP  Amount wires  4  Outer diameter insulation  1,25 mm	Stranding	4 wires twisted
Cable weigth 33 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm	wire arrangement	brown, black, blue, white
Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4,5 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter insulation 1,25 mm	Traversing distance (C-track)	10 m @ 25 °C   horizontal
Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm	Cable weigth	33 g/m
Freedom from ingredients (jacket)  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket)  4,5 mm  Tolerance outer diameter (sheath)  ± 5 %  Material wire insulation  PP  Amount wires  4  Outer diameter insulation  1,25 mm	Material jacket	PUR
Outer-diameter (jacket)         4,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation PP Amount wires 4 Outer diameter insulation 1,25 mm	Outer-diameter (jacket)	4,5 mm
Amount wires 4 Outer diameter insulation 1,25 mm	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation 1,25 mm	Material wire insulation	PP
<u> </u>	Amount wires	4
Outer diameter tolerance core insulation ± 5 %	Outer diameter insulation	1,25 mm
	Outer diameter tolerance core insulation	± 5 %



Shore hardness wire insulation	70 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)	32
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,25 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	3,6 A
Electrical resistance line constant wire	79 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2,5 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Operating temperature min. (dynamic)	-25 °C
Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
UV resistance	DIN EN ISO 4892-2 A
Flame resistance	UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track)	10 Mio. @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min