

## M12 male 0° / M12 female 90° A-cod. LED

PUR 4x0.34 bk UL/CSA+drag ch. 1m

Male straight – female 90° M12 – M12, 4-pole 3× LED (PNP), (NPN) on request

Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

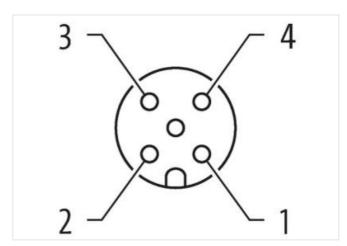
Plastic housings with good resistance against chemicals and oils.

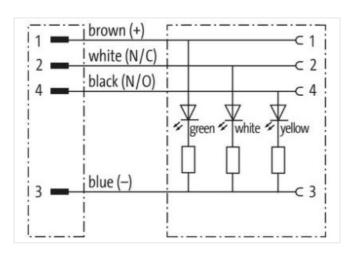
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

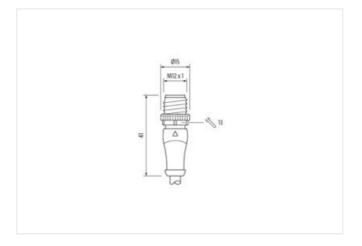
## **Link to Product**

## Illustration



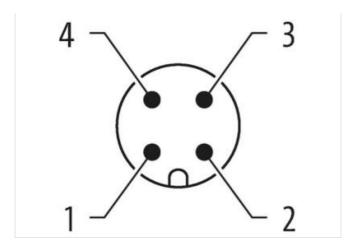


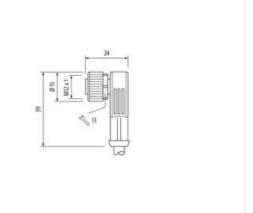






stay connected





Product may differ from Image











Cable length	1 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)	IP65, IP66K, IP67
Side 2	
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)	IP65, IP66K, IP67
Commercial data	
ECLASS-6.0	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	4048879169486
Packaging unit	1
Electrical data   Supply	



stay connected

Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Current operating per contact max.         4 A           Diagnostics         Status indication LED         green, white, yellow           Installation   Comection         Multing set         M12 x 1           Device protection   Electrical         Mounting set         M12 x 1           Device protection   Electrical         Modificand condition protection degree         1 mserted, screwed           Pollution Degree         3         Ralade surge voltage         0.8 NV           Macterial group (EC6 66664+1)         1         Mechanical data   Material data           Coating locking         Nickeled         Coating locking         Nickeled           Coating of litting         nickel plated         Led-string material         Z inc die-casting           Mechanical data   Mounting data         nickel plated         Led-string material         Z inc die-casting           Mechanical data   Mounting data         minerate (screwed, Shaking protection         Mechanical data   Mounting data           Mounting method         inserted, screwed, Shaking protection         Led-degree degree	Operating voltage DC	24 V
Operating voltage DC max.         30 V           Operating voltage DC max. (Ull-isted)         30 V           Control operating por contact max.         4 A           Diagnostics         Status indication LED         green, while, yellow           Installation Connection         Mounting set         M12 x 1           Device protection   Electrical         Additional condition protection depered         inserted, speewed           Pollution Degree         3         Recommendation of the protection of the		
Operating willage DC max. (Li listed)         30 V           Disposation (Department of Michael Control (Libration) (Department of Michael (Libration) (Department of Micha		
Diagnostics   Status indication LED   groun, white, yellow   Status indication LED   groun, white, yellow   Status indication LED   groun, white, yellow   Status indication LED   Generation   Status indication   Connection   Connect		
Disposation         Status in Recitation LED         groon, white, yellow           Installation   Connection         Mile and installation   Connection           Perice protection   Electrical         Maction all condition protection degree         3.8           Rated surge voitage         3.8 kW           Mactinal group (IEC 6898-1)         1.1           Mechanical data   Material data         Noiseled           Coating to fitting         nickeled           Loading and fitting         nickeled plated           Loading a fitting         nickeled plated           Poperating temperature man.         45° °C           Operating temperature man.         45° °C           Auditional condition tomporature range         15° °		
Status indication LED         green, white, yellow           Instaliation (Connection)         M12 x 1           Device protection [Electrical         M12 x 1           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Railed surge voltage         0,8 kV           Meterial group (IEC 60864-1)         I           Mechanical data [Mindrai data]         Mickelied           Coaling toking         Nickelied           Coaling of tilling         nickel plated           Locking material         Zinc die-casting           Macterial grow connection         Zinc die-casting           Macterial for Munting data         Zinc die-casting           Mechanical data [Mounting data]         Size die casting           Mechanical data [Mounting data]         Zinc die casting           Mechanical data [Mounting data] <th< td=""><td>Current operating per contact max.</td><td>4 A</td></th<>	Current operating per contact max.	4 A
Installation   Connection         Mounting set         M12 x 1           Device protection   Electrical         Device protection   Electrical           Additional condition protection degree         inserted, serewed           Pollution Degree         3           Rated surge vortage         0.8 kV           Meternal group (EC 60664+1)         1           Mechanical data   Material data         Nickeled           Coating locking         Nickeled           Coating of fitting         circle easting           Material scrow connection         Zinc die-easting           Material scrow connection         Zinc die-easting           Mechanical data   Mounting data         Mounting mothed           Mounting mothed         inserted, scrowed, Shaking protection           Environmental characteristics   Climatic         Circle of Connection           Poperating temperature min.         25 °C           Operating temperature map.         85 °C           Additional condition temperature range         90 operating temperature map.         95 °C           Additional condition temperature range         90 operating temperature map.         95 °C           Note on bardian partition notes         Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable lies.           Note on bardian partiti	Diagnostics	
Mounting solt         M12 x 1           Device protection   Electrical           Additional condition protection degree         3           Rated sugs voltage         0.8 kV           Mechanical data   Material data         Material group (EC 60684+1)           Mechanical data   Material data         Nickeled           Coating plossing         Nickeled           Coating of fitting         nickel plated           Locking material         Zin offe-casting           Mechanical data   Mounting data         Material group of decasting           Mechanical data   Mounting data         Mechanical data   Mounting data           Mechanical data   Mounting data         Mechanical data   Mounting data           Province	Status indication LED	green, white, yellow
Device protection   Electrical	Installation   Connection	
Additional condition protection degree         inserted, screwed           Pollution Degree         3           Ratiot surge voltage         0.8 kY           Material group (IEC 60864-1)         1           Mechanical datal Material data         ************************************	Mounting set	M12 x 1
Follution Degree         3           Rated surge voltage         0,8 kV           Material group (IEC 60684-1)         1           Mechanical data   Material data         Nickeled           Coating of fitting         Inckel plated           Locking material         Zinc die casting           Methanical data   Mounting data         Mechanical data   Mounting data           Mundring method         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Coperating temperature max         85 °C           Operating temperature max         85 °C         Company of the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bardian 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)           Tenduct standard         DIN EN 61076-2-101 (M12)           Cable identification         634           Cable identification         634           Cable identification         634           Cable weight         36,3 g/m           Amount stranding	Device protection   Electrical	
Follution Degree         3           Rated surge voltage         0,8 kV           Material group (IEC 60684-1)         1           Mechanical data   Material data         Nickeled           Coating of fitting         Inckel plated           Locking material         Zinc die casting           Methanical data   Mounting data         Mechanical data   Mounting data           Mundring method         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Coperating temperature max         85 °C           Operating temperature max         85 °C         Company of the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bardian 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)           Tenduct standard         DIN EN 61076-2-101 (M12)           Cable identification         634           Cable identification         634           Cable identification         634           Cable weight         36,3 g/m           Amount stranding	Additional condition protection degree	inserted, screwed
Material group (IEC 60664-1)         I           Mechanical data (Material data)           Coating locking         Nickeled           Coating of fitting         nickel pated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data (Mounting data)         Mechanical data (Mounting data)           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics [Climate)         Cperating temperature min.         -25 °C           Operating temperature min.         -25 °C         Compeniting temperature man.         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.           Product standard         BIN EN 61076-2-101 (M12)           Installation   Cable         3           Cable identification         634           Cable identification         634           Cable identification         618           Cable identification <th< td=""><td>Pollution Degree</td><td>3</td></th<>	Pollution Degree	3
Material group (IEC 60664-1)         I           Mechanical data (Material data)           Coating locking         Nickeled           Coating of fitting         nickel pated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data (Mounting data)         Mechanical data (Mounting data)           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics [Climate)         Cperating temperature min.         -25 °C           Operating temperature min.         -25 °C         Compeniting temperature man.         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.           Product standard         BIN EN 61076-2-101 (M12)           Installation   Cable         3           Cable identification         634           Cable identification         634           Cable identification         618           Cable identification <th< td=""><td></td><td>0,8 kV</td></th<>		0,8 kV
Coaling locking         Nickeled           Coaling of fitting         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Operating temperature min.         425°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         Attentions: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Conformity         Intention (Desire the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Cable intentification [Cable Server the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Conformity         Intentification [Cable Server the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Collectification [Cable Server the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.	Material group (IEC 60664-1)	
Coaling locking         Nickeled           Coaling of fitting         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Operating temperature min.         425°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         Attentions: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Conformity         Intention (Desire the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Cable intentification [Cable Server the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Conformity         Intentification [Cable Server the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Collectification [Cable Server the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.	Mechanical data   Material data	
Coating of fitting         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical datal Mounting data         Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Coperating temperature min.         -25 °C           Operating temperature man.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.           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)           Installation   Cable           Cable identification         634           Cable identification <td>·</td> <td>Nickeled</td>	·	Nickeled
Locking material         Zinc die-casting           Material server connection         Zinc die-casting           Mechanical data   Mounting atta           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           Important installation notes         Total 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)           Installation   Cable         Stallation   Cable           Cable identification         634         Augusta   Cable   Cab		
Mechanical data   Mounting data         Mechanical data   Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Environmental characteristics   Climatic           Operating temperature min.         .25 °C           Operating temperature max.         .85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         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.           Contormity         Product standard         DIN EN 61076-2-101 (M12)           Installation   Cable         Since Installation   Cable           Cable identification         634         Cable Installation   Cable           Type of Certificate         OURs         Cuber district           Amount stranding         1         Stranding         4 wires twisted           Stranding         4 wires twisted         Mount stranding         1           Stranding         4 wires twisted           Wire arrangement         brown, black, blue, white           Cable weight         36.3 g/m           Material jacket         PUR		·
Mechanical data   Mounting method inserted, screwed, Shaking protection  Furticonmental characteristics   Climatic  Operating temperature min.		
Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min.		Zino die-basting
Provious tandard parateristics   Climatic   25 °C   Cperating temperature max. 85 °C   Additional condition 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)   Installation   Cable   Cable identification   634   Cable Type   3   Jacket Color   black   Type of Certificate   Climus   Amount stranding   1   Stranding   4 wires twisted   Wire arrangement   brown, black, blue, white   Cable weight   36,3 g/m   Material jacket   PUR   Shore hardness jacket   PUR   Shore hardness jacket   PUR   Shore hardness jacket   PUR   Cuter diameter (jacket)   £5 %   Material wire insulation   PP   Amount wires   4   Cuter diameter (sheath)   £5 %   Cuter diameter tolerance core insulation   £5 %   Shore hardness wire insulation   70 ± 5 Shore D		invaled convey d. Obelian controlling
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.           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)           Installation   Cable         Saladiation   Cable           Cable identification         634           Cable type         3           Jacket Color         black           Type of Certificate         cuRus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Cable weight         36,3 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         4,5 mm           Outer diameter (jacket)         4,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Mate		Inserted, screwed, Snaking protection
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)  Installation   Cable  Cable identification 634  Cable identification 634  Cable Type 3  Jacket Color black  Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white  Cable weigh 36,3 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  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation 70±5 Shore D	Environmental characteristics   Climatic	
Additional condition temperature range         depending on cable quality           Important installation notes         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)           Installation   Cable         Cable identification         634           Cable identification         634         Cable Type         3           Jacket Color         black         Cable (Place)         Cable (Place)           Type of Certificate         cURus         Cable (Place)         Cable (Place)           Amount stranding         1         Stranding         4 wires twisted           wire arrangement         brown, black, blue, white         Cable weigth         36,3 g/m           Material jacket         PUR           Shore hardness jacket         Pus         Pus           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 <th< td=""><td><u> </u></td><td>-25 °C</td></th<>	<u> </u>	-25 °C
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.           Product standard         DIN EN 61076-2-101 (M12)           Installation   Cable         Cable identification           Cable Identification         634           Cable Type         3           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Cable weigth         36,3 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           Tolerance outer diameter (sheath)         5 %           Material wire insulation         1,25 mm           Outer diameter tolerance core insulation         1,25 mm           Outer diameter tolerance core insulation         2,5 %		
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)  Installation   Cable  Cable identification 634  Cable Type 3  Jacket Color black Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted wire arrangement brown, black, blue, white  Cable weight 36,3 g/m  Attention is acked to 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 sublation 1,25 mm  Outer diameter tolerance core insulation 50 ± 5 Shore D	Additional condition temperature range	depending on cable 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)  Installation   Cable  Cable identification 634  Cable Type 3  Jacket Color black Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted brown, black, blue, white  Cable weigh 36,3 g/m  Attention ingredients (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 1,25 mm  Outer diameter insulation 1,25 mm  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation 5,0 ± 5 Shore D	Important installation notes	
Conformity           Product standard         DIN EN 61076-2-101 (M12)           Installation   Cable           Cable identification         634           Cable Type         3           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Cable weigth         36,3 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 %           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Product standard         DIN EN 61076-2-101 (M12)           Installation   Cable           Cable identification         634           Cable Type         3           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Cable weigth         36,3 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         90 ± 5 Shore A           Tolerance outer diameter (jacket)         4,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %	Note on bending radius	
Installation   Cable           Cable identification         634           Cable Type         3           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Cable weigth         36,3 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           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D	Conformity	
Cable identification         634           Cable Type         3           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Cable weigth         36,3 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           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D	Product standard	DIN EN 61076-2-101 (M12)
Cable identification         634           Cable Type         3           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Cable weigth         36,3 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           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D	Installation   Cable	
Cable Type         3           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Cable weigth         36,3 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           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D		634
Jacket ColorblackType of CertificatecURusAmount stranding1Stranding4 wires twistedwire arrangementbrown, black, blue, whiteCable weigth36,3 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,5 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires4Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore D		
Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white  Cable weigth 36,3 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  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D		
Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white Cable weigth 36,3 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 Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D		
Stranding4 wires twistedwire arrangementbrown, black, blue, whiteCable weigth36,3 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,5 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires4Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore D	<u></u>	
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Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D		PP
Outer diameter tolerance core insulation $\pm 5\%$ Shore hardness wire insulation $70 \pm 5$ Shore D		4
Shore hardness wire insulation 70 ± 5 Shore D	Amount wires	
		1,25 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Outer diameter insulation	
	Outer diameter insulation Outer diameter tolerance core insulation	± 5 %



Amount strands (wire)	42
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,34 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	4,8 A
Electrical resistance line constant wire	57 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   IEC 60332-2-2   UL 1581 § 1100 FT2
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
No. of bending cycles (C-track)	10 Mio. @ 25 °C
Traversing distance (C-track)	10 m @ 25 °C   horizontal
Travel speed (C-track)	3 m/s @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min