

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

PUR 4x0.34 bk UL/CSA+robot+drag ch. 0.8m

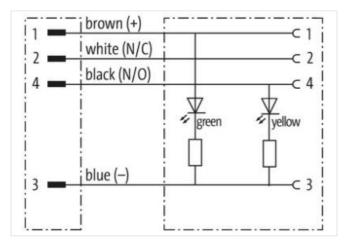
Male straight – female straight M12 – M12, 4-pole 2× LED (PNP), (NPN) on request Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

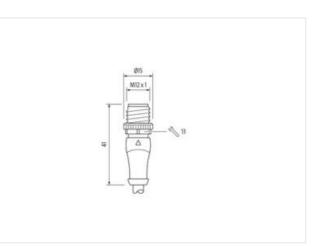
## Link to Product

Illustration



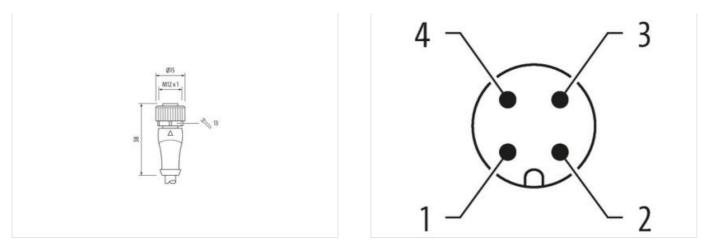






The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-06-23





Product may differ from Image



Cable length	0,8 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
Coding	A
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
Coding	A
Material	PUR
Width across flats	SW13
Commercial data	
ECLASS-6.0	27061801
ECLASS-7.0	27061801
ECLASS-8.0	27061801
ECLASS-9.0	27061801
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879782548
Packaging unit	1

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: 2024-06-23



## Electrical data | Supply

Operating voltage DG44 VOperating voltage DG min.18 VOperating voltage DG min.30 VOperating voltage DG min.4Digerating voltage DG min.4Digerating voltage DG min.4Digerating voltage DG min.4Digerating voltage DG min.9Digerating voltage DG min.4Digerating De control of ans.10Digerating SG MG	Electrical data   Supply	
Operating voltage DC max.         30 V           Operating voltage DC max. (UL-listed)         30 V           Control concerting vortale max.         4 A           Diagnostics         Static indication LED           Static indication LED         green, yellow           Initialization Connection         Mil2 x 1           Davice protection I Electrical         Additional confliction protection degree           Additional confliction protection degree         3           Read surge voltage DC         3           Read surge voltage DC         3           Read surge voltage DC         44           Coaling both         20 oc over coated           Coaling both         21 oc de-casting           Mechanical data [Mounting data         20 oc over coated           Coaling both         21 oc de-casting           Mechanical data [Mounting data         20 oc over coated           Mounting method         inserted, screwed, Staking protection           Environmethol thancleristics [Climatic         20 oc over coated           Operating temperature min.         25 °C           Operating temperature	Operating voltage DC	24 V
Operating velage DC max. (U. leased)         90Y           Current operating per contact max.         4 A           Disposite         Bitalication ICD         green, yellow           Installation   Connection         M12 x 1           Device protection   Electrical         Additional condition protection degree         3           Additional condition protection degree         0.8 kV         Material group (ICC 6068-1)           Meetar group (ICC 6068-1)         1         Meetarial group (ICC 6068-1)           Meetarial group (ICC 6068-1)         1         Meetarial group (ICC 6068-1)           Meetarial group (ICC 6068-1)         1         Meetarial group (ICC 6068-1)           Meetarial group (ICC 6068-1)         1         Meetarial group (ICC 6068-1)           Meetarial group (ICC 6068-1)         1         Meetarial group (ICC 6068-1)           Meetarial group (ICC 6068-1)         1         Meetarial group (ICC 6068-1)           Meetarial group (ICC 6068-1)         1         Meetarial group (ICC 6068-1)           Meetarial group (ICC 6068-1)         2         Meetarial (ICC 6068-1)           Meetarial Group (ICC 6068-1)         2         Meetarial (ICC 6068-1)           Meetarial data (Incound from data factor (ICC 6067 6)         4         Meetarial (ICC 6067 6)           Operating Infraordaute min.         45°	Operating voltage DC min.	18 V
Current operating per contact max.         4 A           Diagnostics         Bistus Indication LED         green, yellow           Installation I Connection         Mux 1           Device protection [Electricat]         Electrication I Connection           Additional condition protection degree         inserted, sorewed           Poliusion Degree         3           Radid surge voltage         0.8 kV           Material group (IEC 60664-1)         1           Mechanical data [Material data         Conting Coll 60664-1)           Conting Coll filling         safe-cover conted           Conting Coll filling         safe-cover conted           Conting Coll filling         safe-cover conted           Muchanizal data [Material actas         Conting Coll filling           Material screw connection         Zine dic-casting           Mechanical data [Mouring data         Conternet, Screwed, Shaking protection           Environmental characteristics [Climatic         Conternet, Coll filling           Depending temperature mix.         25 °C           Operating temperature mix.         85 °C           Additional condition tomperature range         depending protection           Mortant Installation notes         Environmental characteristics [Climatic           Product the connectore by suitable measures	Operating voltage DC max.	30 V
Despective         Server, selford           Strutus infocación LED         geren, yellow           Installation I Connection         M12 x 1           Devicer protection I Electrical         Environmental environmentenvi environmental environmentenvironmental environmen	Operating voltage DC max. (UL-listed)	30 V
Basis indication LED         green, yellow           Installation (Connection)         Installation (Connection)           Device protection [Electrical         IX x 1           Additional condition protection degree         inserted, screwed           Polutan Degree         3           Refer sing voltage         0.8 kV           Material group (IEC 6068.4-1)         1           Inserted, Stare voltage         0.8 kV           Material group (IEC 6068.4-1)         1           Inserted, Stare voltage         0.8 kV           Material group (IEC 6068.4-1)         1           Cataling Ocking         seft-cover coated           Cataling Ocking         onde-casting           Material error wormection         Zine dio casting           Material error wormection         Enserted, screwed, Shaking protection           Every method         Inserted, screwed, Shaking protection           Material error wormection         Sin Coategroup           Operating temperature max.         85 °C           Additional condition temperature max.         85 °C           Addi	Current operating per contact max.	4 A
Initializition   Connection           Mounting set         M12 x 1           Device protection   Electrical         Inserted, serewed           Addineal condition protection degree         3           Patter agroup (IEC 68664-1)         1           Metheral group (IEC 68664-1)         1           Mounting group (IEC 68664-1)         1           Metharial gr	Diagnostics	
Muniting set         M12 x 1           Device protection   Electrical         Inserted, screwad           Additional condition protection degree         is an additional condition protection degree         3           Rated surge voltage         0.8 kV         Material group (EC 60664-1)         1           Mechanical data   Meterial data         material group (EC 60664-1)         1         Material group (EC 60664-1)         1           Coating of fitting         nickel plated         Material group (EC 60664-1)         1           Coating of fitting         nickel plated         Material group (EC 60664-1)         1           Coating of fitting         Zinc die casting         Material group (EC 60664-1)         1           Material screw connection         Zinc die casting         Material group (EC 60664-1)         1           Material screw connection         Inserted, screwed, Shaking protection         Environmental characteristics (Elmatic         Commental characteristics (Elmatic         Environmental characteristic	Status indication LED	green, yellow
Device protection   Electrical           Additional condition protection degree         inserted, sarewed           Publican Degree         3           Rated surge voltage         0.8 kV           Material group (IEC 60661-1)         1           Mechanical data   Material data         inself data           Coating locking         safe-corver coated           Coating locking         safe-corver coated           Coating of titing         nickel plated           Locking material         Zinc die-casting           Methanical data   Mounting data         inserted, sarewed, Shaking protection           Everomental Characteristics   Climatic         Sel °C           Coerting temperature man.         28 °C           Additional condition temperature range         defending on cable quality           Departing temperature man.         28 °C           Additional condition temperature range         defending on cable quality           Instant relief         Net to the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.           Note on serving radius         Attention: Observe the pormissible bending radii when laying cables, as the IP protection class can be data guality           Instantian field         Now, black, blue, while           Cable identification         654           Cabl	Installation   Connection	
Device protection   Electrical           Additional condition protection degree         inserted, sarewed           Publican Degree         3           Rated surge voltage         0.8 kV           Material group (IEC 60661-1)         1           Mechanical data   Material data         inself data           Coating locking         safe-corver coated           Coating locking         safe-corver coated           Coating of titing         nickel plated           Locking material         Zinc die-casting           Methanical data   Mounting data         inserted, sarewed, Shaking protection           Everomental Characteristics   Climatic         Sel °C           Coerting temperature man.         28 °C           Additional condition temperature range         defending on cable quality           Departing temperature man.         28 °C           Additional condition temperature range         defending on cable quality           Instant relief         Net to the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.           Note on serving radius         Attention: Observe the pormissible bending radii when laying cables, as the IP protection class can be data guality           Instantian field         Now, black, blue, while           Cable identification         654           Cabl	Mounting set	M12 x 1
Polition Degree         3           Rated surge voltage         0.8 KV           Material group (EC 60664-1)         1           Machanical data   Material data         Coating folding           Coating folding         sale-cover coated           Coating folding         nickel plated           Locking material         Zinc die-casting           Material strew connection         Zinc die-casting           Material strew connection         Zinc die-casting           Mounting method         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Operating temperature max.           Additional condition temperature orange         depending on cable quality           Important installation notes         St °C           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Contormity         Product strained           Poduct strained         DIN EN 61076-2101 (M12)           Instalation   Cable         State           Cable togen         State           Cable togen         State           Cable identification         654           Cable identification         State           Cable identification         State	Device protection   Electrical	
Patted surgevoltage         0.8 kV           Material group (EC 6064-1)         I           Mechanical data [Material data         Coating of fitting         nickal plated           Coating of fitting         nickal plated         Coating of fitting           Locking material         Zinc die casting           Mechanical data [Mounting data         Inserted, screwed, Shaking protection           Mechanical data [Mounting data         Inserted, screwed, Shaking protection           Coperating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional contition temperature ranse         depending on cable quality           Important installation notes         Attention: Cobactive the permissible bending radii when laying cables, as the IP protection class can be endangered by sociable measures from mechanical loads, e.g. by the usage of cable lites.           Note on ending radius         Attention: Cobactive the permissible bending radii when laying cables, as the IP protection class can be endangered by sociable bending forces.           Contomity         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lites.           Note on ending radius         Attention: Cobactive the permissible bending radii when laying cables, as the IP protection class can be ending radii when laying cables, as the IP protection class can be ending radii when laying cables, as the IP protection class can be ending radii when laying cables, as the IP p	Additional condition protection degree	inserted, screwed
Material group (EC 60864-1)         I           Mechanical data   Material data         Sale cover coated           Coating of ting nickol platad         Incohing assile cover coated           Cacaing of ting nickol platad         Zinc die-casting           Mechanical data   Mounting data         Mechanical data   Mounting data           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatio         Coperating temperature min.           Operating temperature min.         -25 °C           Operating temperature min.         -25 °C           Operating temperature min.         -25 °C           Operating temperature man.         85 °C           Additional condition temperature range         depending on cable quality           Important instaliation notes         Materion: Observe the permissible berding radii when laying cables, as the IP protection class can be endangered by excessive banding forces.           Conformity         Freduct standard         DIN EN 61076-2-101 (M12)           Instaliation   Cable         Gef4 </td <td>Pollution Degree</td> <td>3</td>	Pollution Degree	3
Mechanical data   Material data           Coating locking         sale-over coated           Coating filting         nickel plated           Locking metiral         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Mounting method         Inserted, screwed, Shaking protection           Evarionmental characteristics   Climatu         Qoerating temperature max.           Operating temperature max.         85 °C           Additional condition temperature max.         85 °C           Note on strain rolled         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lise.           Note on strain rolled         DIN EN 61076-2101 (M12)           Instruction Cable         Divers the permissible bending radii when laying cables, as the IP protection class can be ending radii when laying cables, as the IP protection class can be ending radii when layi	Rated surge voltage	0,8 kV
Coating Locking         sale-cover coated           Coating of fitting         nickle plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Material screw connection         Zinc die-casting           Methal screw connection         Zinc die-casting           Mounting method         Inserted, screwed, Shaking protection           Environmental characteristics [ Olimatic         Coperating temperature man.           Operating temperature max.         85 °C           Addition to moreature range         depending on cable quality           Important Installation notes         Note on stain relief           Note on stain 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.           Contormity         Installation Cable           Product standard         DIN EN 61076-2-101 (M12)           Installation Cable         Side Additionating forces.           Cable demitication         654           Cable demitication         654           Cable demitication         654           Cable demitication         654           Cable demiticatio	Material group (IEC 60664-1)	
Coating Locking         sale-cover coated           Coating of fitting         nickle plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Material screw connection         Zinc die-casting           Methal screw connection         Zinc die-casting           Mounting method         Inserted, screwed, Shaking protection           Environmental characteristics [ Olimatic         Coperating temperature man.           Operating temperature max.         85 °C           Addition to moreature range         depending on cable quality           Important Installation notes         Note on stain relief           Note on stain 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.           Contormity         Installation Cable           Product standard         DIN EN 61076-2-101 (M12)           Installation Cable         Side Additionating forces.           Cable demitication         654           Cable demitication         654           Cable demitication         654           Cable demitication         654           Cable demiticatio	Mechanical data   Material data	
Coaling of fitting         nicket plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data [Mounting data         Incerted, screwed, Shaking protection           Environmental characteristics [Climatic         Operating temperature min.         -25 °C           Operating temperature min.         -25 °C		safe cover costed
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.         25 °C           Operating temperature max.         85 °G         Additional condition temperature range         depending on cable quality           Important installation notes         Important installation notes         Note on stain 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         Installation   Cable         View standard         DIN EN 61076-2:101 (M12)           Installation   Cable         brown, black, blue, white         Cable right         Sactor Coording           View carangement         brown, black, blue, white         Cable right         Sactor Coording           Stranding         1         Stranding         Stranding         Stranding           View twisted         Wires twisted         Stranding         Sactor Coording           Stranding         4 wires twisted         Stranding         Sactor Coording         Sactor Coording <td></td> <td></td>		
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 may.         65 °C           Additional condition temperature max.         85 °C         Additional condition temperature max.         85 °C           Note on bending radius         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 taying cables, as the IP protection class can be endangeed by excessive bending forces.           Conformity         Product standard         DIN EN 61076:2-101 (M12)           Installation   Cable         Prown, black, blue, white           Cable right         5           Jacket Color         black           Type of Certificate         CURus           Amount stranding         1           Stranding         4 wires twisted           wire arragement         brown, black, blue, white           Cable weight         96.3 g/m           Material jackt         PUR           Stranding         1 </td <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td>		· · · · · · · · · · · · · · · · · · ·
Mechanical data   Mounting data           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Comportation in the protection in the screwed, Shaking protection           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 strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Conformity         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Cable on strain relief         DIN EN 61076-2-101 (M12)           Installation   Cable         brown, black, blue, white           Cable fortification         654           Cable fortification         654           Cable fortification         654           Cable fortification         654           Cable versitication         1           Stranding         4 wires bristed           wire arrangement         brown, black, blue, white           Cable weight         36.3 g/m <t< td=""><td></td><td></td></t<>		
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         Note on stain relief           Note on stain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on stain relief         DIN En 610762-701 (M12)           Product standard         DIN EN 610762-701 (M12)           Product standard         DIN EN 610762-701 (M12)           Installation   Cable         UN EN 610762-701 (M12)           Vier arrangement         brown, black, blue, white           Cable fortpre         5           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Cable type         5           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         46.3 g/m		Zinc die-casting
Environmental characteristics   Climatic           Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         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           Product standard         DIN EN 61076-2-101 (M12)           Installation Cable         Urits arrangement           Vire arrangement         brown, black, blue, while           Cable fuppe         5           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         58 ± 3 Shore D           Freedom from ingredients (jacket)         4.7 mm	Mechanical data   Mounting data	
Operating temperature min.       -25 °C         Operating temperature max.       85 °C         Additional condition temperature maye       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 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       wire arrangement       brown, black, blue, white         Cable identification       654         Cable Identification       654         Cable Identification       654         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       58 ± 3 Shore D         Freedom from ingredients (jacket)       Lead-free, cadmium-free, CFC-free, halogen-free, silicone-f	Mounting method	inserted, screwed, Shaking protection
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 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         wire arrangement         brown, black, blue, white           Cable identification         654           Cable identification         654           Cable Identification         654           Stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Cable Weigth         36,3 g/m           Material jacket         PURs           Armount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Cable weigth         36,3 g/m           Material jacket         PUR <td>Environmental characteristics   Climatic</td> <td></td>	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 lies.           Note on strain relief         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 forces.           Conformity         Product standard         DIN EN 61076-2-101 (M12)           Installation   Cable         write arrangement         brown, black, blue, white           Cable Identification         654           Cable Identification         654           Cable Identificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Cable verificate         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         58 ± 3 Shore D           Freedom from ingredients (jacket)         Lead-free, cadmiu	Operating temperature min.	-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.           Conformity         Image: Distantiant of the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Contormity         Image: Distantiant of the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Contormity         Image: Distantiant of the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Contormity         Image: Distantiant of the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Contormity         Image: Distantiant of the permissible bending forces.           Installation (Cable         Image: Distantiant of the protection class can be endangered by excessive bending forces.           Cable identification         654           Cable force force         54           Cable Color         black           Type of Certificate         CURus           Amount stranding         1           Stranding         4 wires twisted	Operating temperature max.	85 °C
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         wire arrangement         brown, black, blue, white           Cable function         654         Cable Type         5           Jacket Color         black         Usus         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Ype diduct standard         DIN EN 61076-2-101 (M12)         Installation I         Cable Type           Standard         Diventificate         Diventificate         Diventificate         Cubra           Acte of Carlificate         Diventificate         CuBra	Additional condition temperature range	depending on cable quality
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         wire arrangement       brown, black, blue, white         Cable identification       654         Cable identification       0LRus         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       58 ± 3 Shore D         Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Outer-diameter (jacket)       4.7 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       4         Outer diameter insulation       1,25 mm         <	Important installation notes	
Note on bending radius       endangered by excessive bending forces.         Conformity         Product standard       DIN EN 61076-2-101 (M12)         Installation   Cable         wire arrangement       brown, black, blue, white         Cable identification       654         Cable Identification       cuBlack         Type of Certificate       cuBrus         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       58 ± 3 Shore D         Freedom from ingredients (jacket)	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       wire arrangement     brown, black, blue, white       Cable identification     654       Cable identification     5       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     58 ± 3 Shore D       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer-diameter (jacket)     4.7 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Amount wires     4       Outer diameter insulation     1,25 mm       Outer diameter insulation     1,25 mm       Outer diameter insulation     1,25 mm <td>Note on bending radius</td> <td></td>	Note on bending radius	
Installation   Cable         wire arrangement       brown, black, blue, white         Cable identification       654         Cable identification       654         Cable Type       5         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       58 ± 3 Shore D         Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free         Outer-diameter (jacket)       4,7 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 %	Conformity	
wire arrangementbrown, black, blue, whiteCable identification654Cable identification5Jacket ColorblackType of CertificatecURusAmount stranding1Stranding4 wires twistedwire arrangementbrown, black, blue, whiteCable weigth36,3 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (sheath)± 5 %Material wire insulationPPAmount wires4Outer diameter insulation1,25 mmOuter diameter insulation± 5 %	Product standard	DIN EN 61076-2-101 (M12)
wire arrangementbrown, black, blue, whiteCable identification654Cable identification5Jacket ColorblackType of CertificatecURusAmount stranding1Stranding4 wires twistedwire arrangementbrown, black, blue, whiteCable weigth36,3 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (sheath)± 5 %Material wire insulationPPAmount wires4Outer diameter insulation1,25 mmOuter diameter insulation± 5 %	Installation   Cable	
Cable identification654Cable Type5Jacket ColorblackType of CertificatecURusAmount stranding1Stranding4 wires twistedwire arrangementbrown, black, blue, whiteCable weigth36,3 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)4.7 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires4Outer diameter insulation1.25 mmOuter diameter insulation1.25 mm		brown black blue white
Cable Type5Jacket ColorblackType of CertificatecURusAmount stranding1Stranding4 wires twistedwire arrangementbrown, black, blue, whiteCable weigth36,3 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)± 5 %Material wire insulationPPAmount wires4Outer diameter insulation1,25 mmOuter diameter insulation1,25 mm	-	
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       58 ± 3 Shore D         Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Outer-diameter (jacket)       4,7 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 %		
Type of CertificatecURusAmount stranding1Stranding4 wires twistedwire arrangementbrown, black, blue, whiteCable weigth36,3 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-freeOuter-diameter (jacket)4,7 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires4Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %		
Amount stranding1Stranding4 wires twistedwire arrangementbrown, black, blue, whiteCable weigth36,3 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,7 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires4Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %		
Stranding4 wires twistedwire arrangementbrown, black, blue, whiteCable weigth36,3 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,7 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires4Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %		
wire arrangementbrown, black, blue, whiteCable weigth36,3 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,7 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires4Outer diameter tolerance core insulation± 5 %		
Cable weigth36,3 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,7 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires4Outer diameter tolerance core insulation1,25 mmOuter diameter tolerance core insulation± 5 %		
Material jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,7 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires4Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %	-	
Shore hardness jacket       58 ± 3 Shore D         Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Outer-diameter (jacket)       4,7 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 %	-	
Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Outer-diameter (jacket)       4,7 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       4         Outer diameter tolerance core insulation       1,25 mm         Outer diameter tolerance core insulation       ± 5 %		
Outer-diameter (jacket)4,7 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires4Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %		
Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       4         Outer diameter insulation       1,25 mm         Outer diameter tolerance core insulation       ± 5 %		
Material wire insulation     PP       Amount wires     4       Outer diameter insulation     1,25 mm       Outer diameter tolerance core insulation     ± 5 %		
Amount wires4Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %		
Outer diameter insulation     1,25 mm       Outer diameter tolerance core insulation     ± 5 %		
Outer diameter tolerance core insulation ± 5 %		

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: 2024-06-23



Shore hardness wire insulation	74 ± 3 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
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	60 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 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
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)	5 m @ 25 °C   horizontal
Travel speed (C-track)	3,3 m/s @ 25 °C
No. of torsion cycles	1 Mio.
Torsion stress	± 360 °/m
Torsion speed	35 cycles/min

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: 2024-06-23