

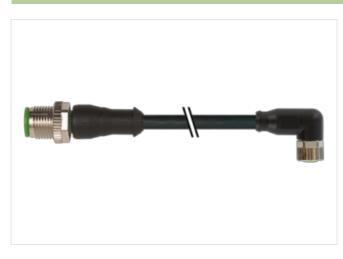
## M12 male 0° / M8 female 90° A-cod.

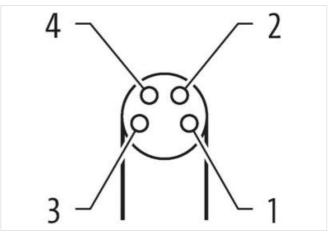
PUR 4x0.25 bk UL/CSA+drag ch. 0.7m

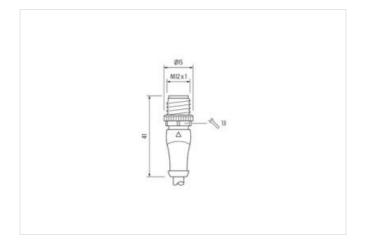
Male straight – female 90° M12 – M8, 4-pole Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## Link to Product

## Illustration

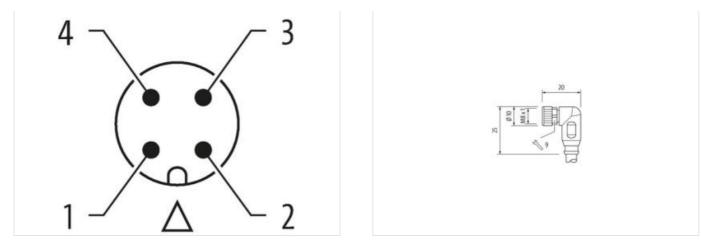












Product may differ from Image



Cable length	0,7 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
Cable outlet	straight
Coding	A
Material	PUR
No. of poles	4
Width across flats	SW13
Side 2	
Fightening torque	0,4 Nm
Mounting method	inserted, screwed
amily construction form	M8
Thread	M8 x 1
suitable for corrugated tube (internal $\emptyset$ )	6,5 mm
Cable outlet	angled
Coding	A
Material	PUR
No. of poles	4
Width across flats	SW9
Commercial data	
ECLASS-6.0	27061801
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
customs tariff number	85444290
GTIN	4048879865067
Packaging unit	1
Electrical data   Supply	

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-22

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Operating voltage AQ (UL-listed)         S0 V           Operating voltage QUL-listed)         S0 V           Operating voltage QUL-listed)         S0 V           Operating voltage QUL-listed)         S0 V           Device protection (Electical         Device protection (Electical           Device protection (Electical         inserted, zereed           Addional condition protection degree         inserted, zereed           Raid surge voltage         1.5 V           Material group (Ecc 6064-1)         I           Material group (Ecc 6064-1)         I           Collaring of fifting         nicki d platerial           Operating voltage AQ (Ecc 6064-1)         I           Material group connection         Zins discade           Colaring material         Raid careado (Ecc 6064)           Material group connection         Zins discade (Ecc 6064)		
Operating voltage XC (UL-listed)         30 V           Operating voltage XC (UL-listed)         30 V           Operating voltage XC (UL-listed)         30 V           Device protocion IE lectrical         PSR, IPPZ, IPPSR           Device protocion IE lectrical         PSR, IPPZ, IPPSR           Device protocion RE VEC (Sto2)         IPSR, IPPZ, IPPSR           Additional condition protection degree         restrict, screwed           Polution Degree         3           Material actual voltage         1,5 kV           Coating of difting         nickelded           Coating of difting         nickelded           Coating of difting         nickelded           Coating of difting         nickelded           Coating temperature min.         -25 °C           Operating temperature min.         -25 °C           Operating temperature min.         -25 °C           Operatin	Operating voltage AC max.	50 V
Operating your contact max.         4 A           Device protection [Electrical         Perse protection [Electrical           Degree of potection (Electrical         Perse protection (Electrical           Degree of potection (Electrical         Perse protection (Electrical           Marcial grang [Electrical         S           Ratid sup voltage         1,5 v/           Marcial grang [Electrical         Grang (Electrical           Coating of Eling         Nickel de           Coating of Eling         Marchaid Scient Potection           Material scient Potection         Zine de casting           Material scient Potection         Zine           Coating Tristal s	Operating voltage DC max.	60 V
Current constant par context max.         4 A           Dovker protection   Electrical           Dovker protection (EN EC 50059)         IP65, IP67, IP66K           Additional condition protection degree         3           Reted surge vortage         1,5 kV           Material condition protection degree         3           Reted surge vortage         1,5 kV           Material condition protection degree         1           Material condition protection degree         1           Conting to context field         Material condition protection degree           Conting to context context         genen           Control context context         Znc dio coating           Material context context context         Znc dio coating           Material context con	Operating voltage AC (UL-listed)	30 V
Decke protection   Electrical         UPBS, IP67, IP68K           Dense of protection (EN IEC 60529)         IP65, IP67, IP68K           Additional condition protection degree         3           Patted surge voltage         1,5 kV           Maxinal group (IEC 6064+1)         I           Mechanical datal Material data         Coaling locking           Coaling locking         Nickeled           Coaling locking         Black           Coaling locking         green           Locking material         green           Locking material         Gree coasing           Methal for Monting data         Tor dis casing           Matterial serve connection         25 °C           Operating temperature min.         45 °C           Note on execting radiu         Metentinconneetors by suitate measures from mechanical dasis,	Operating voltage DC (UL-listed)	30 V
Degree of protection (EN IEC 80529)         IP85, IP87, IP68K           Additional condition protection degree         inserted, sorewed           Additional condition protection degree         3           Pated surge voltage         1.           Maternal group (IEC 6068-1)         1           Maternal group (IEC 6068-1)         1           Machanical data [Material data]         Maternal group (IEC 6068-1)           Coating of fitting         Nickelold           Coating of fitting         inkelold           Coating of fitting         inkelold           Coating of fitting         green           Coating of fitting         Zinc die scaling           Maternal group (IEC 6068-1)         Inserted, sorewed, Shaking protection           Environmental characteristics   Climatic         Zinc die scaling           Mouting methon         Inserted, sorewed, Shaking protection           Environmental characteristics   Climatic         Zinc die scaling           Operating temperature man.         -25 °C           Operating temperature man.         -25 °C           Operating temperature man.         -26 °C           Operating temperature man.         -26 °C           Operating temperature man.         -26 °C           Mouting ratitius         Materion coating rating ratiti	Current operating per contact max.	4 A
Degree of protection (EN IEC 80529)         IP85, IP87, IP68K           Additional condition protection degree         inserted, sorewed           Additional condition protection degree         3           Pated surge voltage         1.           Maternal group (IEC 6068-1)         1           Maternal group (IEC 6068-1)         1           Machanical data [Material data]         Maternal group (IEC 6068-1)           Coating of fitting         Nickelold           Coating of fitting         inkelold           Coating of fitting         inkelold           Coating of fitting         green           Coating of fitting         Zinc die scaling           Maternal group (IEC 6068-1)         Inserted, sorewed, Shaking protection           Environmental characteristics   Climatic         Zinc die scaling           Mouting methon         Inserted, sorewed, Shaking protection           Environmental characteristics   Climatic         Zinc die scaling           Operating temperature man.         -25 °C           Operating temperature man.         -25 °C           Operating temperature man.         -26 °C           Operating temperature man.         -26 °C           Operating temperature man.         -26 °C           Mouting ratitius         Materion coating rating ratiti	Device protection   Electrical	
Additional condition protection degree         inserted, screwed           Pollution Degree         3           Read surge-voltage         1.5 kV           Material group (EG 80664-1)         1           Conting looking         Nokeled           Conting looking         Nokeled           Color Insulary         Black           Color Insulary         Material screw connection           Zho Gle casing         Material screw connection           Material screw connection         Zho Gle casing           Material screw connection         Zho Gle casing           Material screw connection         Sho G           Additional condition temperature range         depending on cable quality           Environmental balance         Color           Mote on bedring radius         Attention:: Observe the parmiacible bac	· · · ·	
Pollution Degree         3           Rated surge voltage         1.5 kV           Material group (IECe 6066-1)         1           Material fraction (IECe 6066-1)         1           Material fraction (IECe 6066-1)         1           Coating of lifting         nickel plated           Coating of lifting         nickel plated           Coder contract carrier         green           Locking material         Zinc de-casting           Material screw connection         Material screw connection class can be confagreed by coccessive denofing cores, as the IP		
Pladet supporting       1.5 kV         Material group (IEC 60664-1)       1         Machanical data       Machanical data         Coating looking       Nickeled         Coating looking       Nickeled         Coating looking       Nickeled         Color housing       Black         Color contact carrier       green         Looking material       Zine die casting         Material screw connection       Sine die casting         Material screw connection       Sine die casting         Material group ture max.       B5 °G         Oparating tomparature max.       B5 °G         Additional condition temperature range       depending on cable quality         Important Installation notes       Attention: Costerve the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending fraces.         Contomity       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tess.         Cable on housing       DIN EN 61076-8-101 (M12), DIN EN 61076-8-114 (M8)         Ins		
Material group (IEC 60664.1)         I           Mechanical data [Material data         Coading tooking           Coading tooking         Nokeled           Coading tooking         Iblack           Mechanical data         Iblack           Coading tooking tooking         Iblack           Material screw connection         Zinc die casting tooking protection           Environmental characteristics   Climatic         Operating tomperature max.           Operating tomperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important Installation noles         Heroton: Doesever the permissible bending tradit when laying cables, as the IP protection class can be ending areading tradit when laying cables, as the IP protection class can be ending areading tooking tookes, as the IP protocon class can be ending took lay tooking tookes and		
Mechanical data   Material data           Castaing of Riting         Nickeled           Coating of Riting         Nickeled           Coating of Riting         Nickeled           Color notating         Liack           Color notating         Liack           Color contact carrier         green           Locking material         Zino die-casting           Material screw connection         Zino die-casting           Mechanical data / Mounting data         Inserted, Strewed, Shaking protection           Environmental characteristics   Climatic         Concornation           Oparating temperature min.         -25 °C           Additional condition temperature mater         85 °C           Additional condition temperature material         Attention: Coserve the permissible banding radii when laying cables, as the IP protection class can be endangered by excessive bending fraces.           Contornity         Installation (Cable           Installation   Cable         DIN EN 61076-2-114 (M8)           Installation   Cable         Cable dentification           Cable dentification         G31           Ca		
Coating locking         Nickeled           Coating of triting         nickel plated           Color housing         black           Color contact carrier         green           Locking material         Zinc die-casting           Material arcs wormenton         Zinc die-casting           Material arcs wormenton         Inserted, screwed, Shaking protection           Environmental characteristics [Cimatic Operating temperature max.         85 °C           Operating temperature max.         85 °C           Additional condition temperature may.         85 °C           Additional condition temperature may.         85 °C           Additional condition temperature may.         85 °C           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, o.g. by the usage of cable tes.           Nate on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection dass can be enviant stranderd           Unit En (10%-2-101 (M12), DIN EN 610%-2-114 (M6)         Installation ofes           Installation ofes         Installation ofes           View arrangement         brown, black, blue, white           Cable diedification         631           Cable viegh         3 afm           Auditional pack         Use twisted           Vie		•
Coating of filing         nickel plated           Color contact carrier         green           Lacking material         Zinc die-caaling           Material screw connection         Zinc die-caaling           Machanical data         Machanical data           Machanical data         Inserted, screwed, Shaking protoction           Environmental characteristics   Climatic         Coperating temperature max.           Operating temperature max.         85 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important Installation notes         Mote 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.           Color         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation Cable         use arrangement           View runder and wise kuited         wise kuited           wise arrangement         brown, black, blue, white           Cable identification         631           Cable identification         631           Cable identification         91 5 Shoro A           Freedon from ingreden	Mechanical data   Material data	
Color nousing         black           Color ontact carrier         green           Locking material         Zinc die-casiing           Material screw connection         Zinc die-casiing           Metanical data   Mounting data         Metanical data   Mounting data           Mounting method         inserted, screwed, Shaking protection           Environmetal characteristics   Climatic         Operating temperature min.           Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Meterial screwed by suitable measures from mechanical loads, e.g. by the usage of cable tise.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tise.           Note on ending radius         Attention: Observe the permissible bunding radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Color         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation [Cable         Metanication           wire arrangement         brown, black, blue, white           Cable viget         4 wires twisted           Mount strainding         1           Stranding         1 </td <td>Coating locking</td> <td>Nickeled</td>	Coating locking	Nickeled
Color contact carrier         green           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   Climatic         Operating temperature main.           Operating temperature main.         25 °C           Operating temperature max.         85 °C           Additional condition temperature may         depending on cable quality           Important installation notes         Note on bending radius           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 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 trues.           Conformity         Eventory           Product standard         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable         Dink EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation         631           Cable Type         3           Cable Goolf         Diak           Cable Goolf         Diak	Coating of fitting	nickel plated
Locking material         Zinc die casting           Material screw connection         Zinc die casting           Mechanical data   Mounting data         Mechanical data   Mounting data           Munting method         inserted, screwed, Shaking protection           Environmental characteristics   Olimatic         Operating temperature min.           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.           Conomity         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Cable Type         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Cable Type         Direction Classe           Cable Type         3           Jacket Color         Diack           Direction Classe         Cultication           Strangement         Euclide Media           Direction Class         Cultication           Stranding         1           Stranding         1           Stranding         4 vivise twisted	Color housing	black
Material screw connection         Zinc die-casting           Meuning method         inserted, screwed. Shaking protection           Environmental characteristics   Climatic         Operating temperature max.         85 °C           Operating temperature max.         85 °C         Additional condition temperature may.         85 °C           Additional condition temperature may.         85 °C         Additional condition temperature may.         85 °C           Additional condition temperature may.         85 °C         Additional condition temperature may.         85 °C           Additional condition temperature may.         85 °C         Additional condition temperature may.         85 °C           Additional condition temperature may.         85 °C         Additional condition temperature may.         85 °C           Note on stain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tes.         Note on stain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tes.           Contormity         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 tes.           Color         Diak Environmental bending fores.         Contormity         Installation notes         Contormity           Product standard	Color contact carrier	
Mechanical data   Mounting data Mounting method inserted, screwed. Shaking protection Environmental characteristics   Climatic Operating temperature min25 °C Operating temperature max. B5 °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 lies. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Contempt Product standard DIN EN 61076-2-01 (M12), DIN EN 61076-2-114 (M8) Installation   Cable wire arrangement brown, black, blue, white Cable feutification 631 Cable Type 3 Actention: 633 Cable Type 3 Anount stranding 1 Stranding 4 wires lwisted wire arrangement brown, black, blue, white Cable denvification 633 Type of Cartificatia culFRus Amount stranding 1 Stranding 4 wires lwisted Wire arrangement brown, black, blue, white Cable weight 33 g/m Material jackat PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) 4.5 mm Toleraneo outer diameter (jac	Locking material	Zinc die-casting
Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         -25 °C           Operating temperature min.         -25 °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 lies.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.           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.           Contomity         Product standard           Installation   Cable         Unit Re 1076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable         use arrangement           wire arrangement         brown, black, blue, white           Cable Type         3           Stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Cable weight         33 g/m           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Cable weight	Material screw connection	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.           Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by accessive bending forces.           Conformity           Product standard         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable         wire arangement           brown, black, blue, white         Cable identification           Cable identification         631           Cable Iotorit         black           Type of Certificate         c.URus           Anount stranding         1           Stranding         4 wires twisted           wire arangement         brown, black, blue, white           Cable weight         33 g/m           Addrenaing         1           Stranding         1           Stranding         1           Stranding         9 ± 5 Shore A           Freedom f	Mechanical data   Mounting data	
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.           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 61076-2-114 (M8)           Installation   Cable         wire arangement           brown, black, blue, white         Cable identification           Cable identification         631           Cable IType 0         3           Jacket Color         black           Type of Certificate         c.UBus           Amount stranding         1           Stranding         4 wires twisted           wire arangement         brown, black, blue, white           Cable weight         33 g/m           Addrienal jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket) <td< td=""><td>Mounting method</td><td>inserted, screwed. Shaking protection</td></td<>	Mounting method	inserted, screwed. Shaking protection
Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature max.         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.           Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Contomity            Product standard         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation I Cable            wire arrangement         brown, black, blue, white           Cable Type         3           Jacket Color         black           Type of Certificate         CURus           Annourt stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Cable weigth         33 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         4.5 °m           Catleraterus (jacket)         4.5 °m<	-	
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.         Onternity       Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.         Contemity       Product standard       DIN EN 61076-2-114 (M8)         Installation   Cable       wire arrangement       brown, black, blue, white         Cable identification       631       Cable Cable         Write arrangement       brown, black, blue, white       Cable Color         Type of Certificate       cURus       CURus         Amount stranding       1       Stranding       4 wires twisted         write arrangement       brown, black, blue, white       Cable weight       33 g/m         Store function       91 ± S Shore A       Freedom from ingredients (jacket)       PUR         Shore Andress jacket       90 ± 5 Shore A       Freedom from ingredients (jacket)       4,5 mm         Tolerance outer diameter (sheath)       ± 5 %       Material wire insulation       PP		25 °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.         Conformity       Product standard       DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)         Installation I Cable       wire arrangement       brown, black, blue, white         Cable Type       3       Jacket Color         black       UPus       Jacket Color         Ype of Certificate       cURus         Amount stranding       1         Stranding       4 wires twisted         wire arrangement       brown, black, blue, white         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       33 g/m         Material jacket       PUR         Shore hardness jacket       90 ± 5 Shore A         Freedom from ingredients (jacket)       4.5 mm		
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 endingered by excessive bending forces.           Conformity         Product standard         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable         wire arrangement         brown, black, blue, white           Cable furpe         3         Jacket Color           Jacket Color         black         Jacket Color           Type of Certificate         cURus         Amount stranding           Amount stranding         1         Stranding           Wrie arrangement         brown, black, blue, white         Cable weigth           Stranding         4 wires twisted         wire arrangement           brown, black, blue, white         Cable weigth         33 g/m           Material jacket         PUR         Shore hardness jacket         PUR           Shore hardness jacket         PUR         Shore A         Stranding         Gad-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4.5 mm         Coler-free, silicone-free         Gad-free, cadmium-free, CFC-free, halogen-free, silicone-free <td></td> <td></td>		
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 61076-2-114 (M8)           Installation   Cable         wire arrangement         brown, black, blue, white           Cable identification         631           Cable Identificate         CuPus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Cable dentificate         CuPus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Cable weight         33 g/m           Material jacket         PUR           Store hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer diameter (isokati)         ±5 %           Material wire insulation         1.25 mm           Outer diameter tolerance core insulation         ±5 % <td></td> <td>depending on cable quality</td>		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.           Contormity         Image: Content of the conten of the content of the content of the contend of the	Important installation notes	
Note of Deriding radius         endangered by excessive bending forces.           Conformity           Product standard         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable           wire arrangement         brown, black, blue, white           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           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           Tolerance outer diameter insulation         1.25 mm           Outer diameter insulation         1.25 mm           Outer diameter insulation         1.25 mm     <	Note on strain relief	
Product standard       DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)         Installation   Cable         wire arrangement       brown, black, blue, white         Cable Identification       631         Cable Identification       631         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         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 %         Amount wires       4         Outer diameter insulation       1,25 mm         Outer diameter tolerance core insulation       1,25 mm         Outer diameter tolerance core insulation       ± 5 %         Shore D       hardmem-free, cadmium-free, CFC-free, halogen-free, silicone-free         Ingredient freeness wire insulation       1,25 Shore D	Note on bending radius	
InstallationCablewire arrangementbrown, black, blue, whiteCable identification631Cable Type3Jacket ColorblackType of CertificatecURusAmount stranding1Stranding4 wires twistedwire arrangementbrown, black, blue, whiteCable wigth33 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)4.5 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires4Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation1.25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulationk 5 %		
wire arrangementbrown, black, blue, whiteCable identification631Cable Type3Jacket ColorblackType of CertificatecURusAmount stranding1Stranding4 wires twistedwire arrangementbrown, black, blue, whiteCable weigth33 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter diameter (sheath)± 5 %Material avire insulationPPAmount wires4Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulation70 ± 5 Shore DIngredient freeness wire insulation1.25 cmmCuter diameter tolerance core insulation1.25 shore DIngredient freeness wire insulation10 ± 5 Shore D	Conformity	
Cable identification631Cable Type3Jacket ColorblackType of CertificatecURusAmount stranding1Stranding4 wires twistedwire arrangementbrown, black, blue, whiteCable weigth33 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-freeOuter-diameter (jacket)4,5 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires4Outer diameter tolerance core insulation1,25 mmOuter diameter insulation70 ± 5 Shore DIngredient freeness wire insulation70 ± 5 Shore DIngredient freeness wire insulation70 ± 5 Shore DIngredient freeness wire insulation10 ± 5 Shore D	Conformity Product standard	DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)
Cable identification631Cable Type3Jacket ColorblackType of CertificatecURusAmount stranding1Stranding4 wires twistedwire arrangementbrown, black, blue, whiteCable weigth33 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-freeOuter-diameter (jacket)4,5 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires4Outer diameter tolerance core insulation1,25 mmOuter diameter insulation70 ± 5 Shore DIngredient freeness wire insulation70 ± 5 Shore DIngredient freeness wire insulation70 ± 5 Shore DIngredient freeness wire insulation10 ± 5 Shore D	Product standard	DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)
Cable Type3Jacket ColorblackType of CertificatecURusAmount stranding1Stranding4 wires twistedwire arrangementbrown, black, blue, whiteCable weigth33 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (sheath) $\pm 5$ %Material wire insulationPPAmount wires4Outer diameter tolerance core insulation $\pm 5$ %Shore hardness wire insulation $70 \pm 5$ Shore DIngredient freeness wire insulationI 25 Shore D	Product standard Installation   Cable	
Jacket Color       black         Type of Certificate       cURus         Amount stranding       1         Stranding       4 wires twisted         wire arrangement       brown, black, blue, white         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 tolerance core insulation       1,25 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       PDE         Ingredient freeness wire insulation       1,25 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       10 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Product standard Installation   Cable wire arrangement	brown, black, blue, white
Type of CertificatecURusAmount stranding1Stranding4 wires twistedwire arrangementbrown, black, blue, whiteCable weigth33 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 tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulationree, cadmium-free, CFC-free, halogen-free, silicone-free	Product standard Installation   Cable wire arrangement Cable identification	brown, black, blue, white 631
Amount stranding1Stranding4 wires twistedwire arrangementbrown, black, blue, whiteCable weigth33 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 tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Product standard Installation   Cable wire arrangement	brown, black, blue, white 631 3
Stranding       4 wires twisted         wire arrangement       brown, black, blue, white         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 tolerance core insulation       ± 5 %         Shore hardness wire insulation       70 ± 5 Shore D         Ingredient freeness wire insulation       70 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free	Product standard Installation   Cable wire arrangement Cable identification Cable Type Jacket Color	brown, black, blue, white 631 3 black
wire arrangementbrown, black, blue, whiteCable weigth33 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 tolerance core insulation±,25 mmOuter diameter tolerance core insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Product standard Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate	brown, black, blue, white 631 3 black cURus
Cable weigth33 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 tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulationIead-free, cadmium-free, CFC-free, halogen-free	Product standard Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding	brown, black, blue, white 631 3 black cURus 1
Material 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 tolerance core insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Product standard Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding	brown, black, blue, white 631 3 black cURus 1 4 wires twisted
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         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       70 ± 5 Shore D         Ingredient freeness wire insulation       Iead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Product standard Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement	brown, black, blue, white 631 3 black cURus 1 4 wires twisted brown, black, blue, white
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         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Product standard Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth	brown, black, blue, white 631 3 black cURus 1 4 wires twisted brown, black, blue, white 33 g/m
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         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Product standard Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket	brown, black, blue, white 631 3 black cURus 1 4 wires twisted brown, black, blue, white 33 g/m PUR
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         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Product standard Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth	brown, black, blue, white 631 3 black cURus 1 4 wires twisted brown, black, blue, white 33 g/m PUR 90 ± 5 Shore A
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         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Product standard Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket	brown, black, blue, white 631 3 black cURus 1 4 wires twisted brown, black, blue, white 33 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
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	Product standard Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket)	brown, black, blue, white 631 3 black cURus 1 4 wires twisted brown, black, blue, white 33 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,5 mm
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	Product standard Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket)	brown, black, blue, white 631 3 black cURus 1 4 wires twisted brown, black, blue, white 33 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,5 mm ± 5 %
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	Product standard Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath)	brown, black, blue, white 631 3 black cURus 1 4 wires twisted brown, black, blue, white 33 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,5 mm ± 5 % PP
Shore hardness wire insulation       70 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Product standard Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation	brown, black, blue, white 631 3 black cURus 1 4 wires twisted brown, black, blue, white 33 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,5 mm ± 5 % PP 4
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Product standard Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires	brown, black, blue, white 631 3 black cURus 1 4 wires twisted brown, black, blue, white 33 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,5 mm ± 5 % PP 4 1,25 mm
	Product standard Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation	brown, black, blue, white           631           3           black           cURus           1           4 wires twisted           brown, black, blue, white           33 g/m           PUR           90 ± 5 Shore A           lead-free, cadmium-free, CFC-free, halogen-free           4,5 mm           ± 5 %           PP           4           1,25 mm           ± 5 %
nation in this Product-PDE has been compiled with the utmost care	Product standard Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter tolerance core insulation Outer diameter tolerance core insulation	brown, black, blue, white           631           3           black           cURus           1           4 wires twisted           brown, black, blue, white           33 g/m           PUR           90 ± 5 Shore A           lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           4,5 mm           ± 5 %           PP           4           1,25 mm           ± 5 %           70 ± 5 Shore D

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-22

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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
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

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