

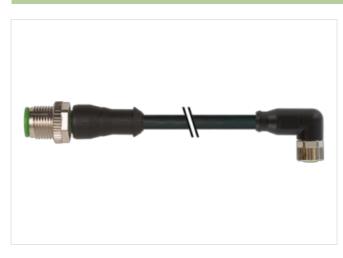
## M12 male 0° / M8 female 90° A-cod.

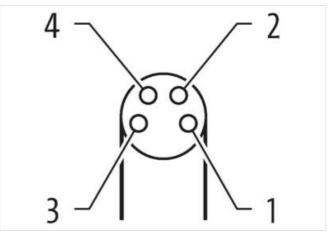
PUR 4x0.25 bk UL/CSA+drag ch. 0.3m

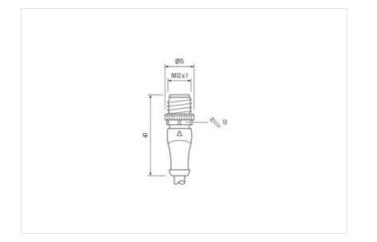
Male straight – female 90° M12 – M8, 4-pole Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

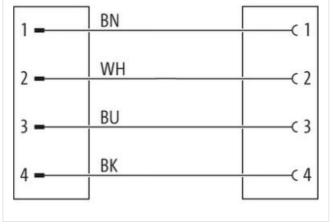
## Link to Product

## Illustration



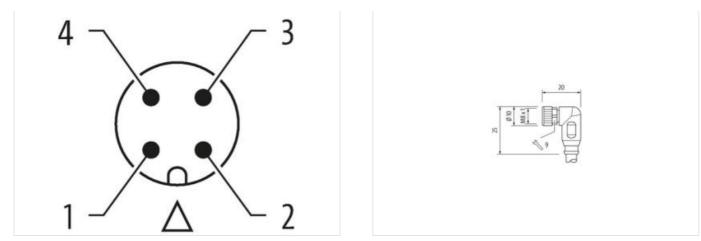






The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-02





Product may differ from Image



Cable length	0,3 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	
Tightening torque	0,4 Nm
Mounting method	inserted, screwed
Family construction form	M8
Thread	M8 x 1
suitable for corrugated tube (internal $\emptyset$ )	6,5 mm
Cable outlet	angled
Coding	A
Material	PUR
No. of poles	4
Width across flats	SW9
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855

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: 2024-05-02



GTN   4448379160186     Packaging unit   1     Departing voltage AC max.   50 V     Operating voltage AC Max.   4 A     Device provestion Electrical   POP.     Device provision (Electrical   POP.     Device provision (Electrical)   1     Material carrier   grave     Device provision (Electrical)   1     Material carrier   grave     Device provision   Zinc di-casting     Material carrier   grave     Device provision (Electrical)   Electrical     Device provision (Electrical)   Electrical     Device prov	customs tariff number	85444290
Electrical data   Supply       Constraing voltage AC max.       60 V         Operating voltage DC Trait.       60 V       Constraing voltage DC (UL listed)       30 V         Operating voltage DC (UL listed)       30 V       Constraing voltage DC (UL listed)       30 V         Operating voltage DC (UL listed)       30 V       Constraint voltage DC (UL listed)       30 V         Operating voltage DC (UL listed)       190 Prof. PROF.       Constraint voltage DC (UL listed)       44         Device protoction (EN EC 0059 V)       195 Prof. PROF.       Constraint voltage DC (UL listed)       1         Additional condition protoction degree       3       Constraint voltage DC (UL listed)       1         Material group (EC 0056 + 1)       1       1       Constraint voltage DC (UL listed)       1         Material group (EC 0056 + 1)       1       1       Constraint voltage DC (UL listed)       1         Color Diversity       Nickelod       Constraint voltage DC (UL listed)       1       1         Color Diversity       Nickelod       Constraint voltage DC (UL listed)       1       1         Color Diversity       Voltage Execting DC (E 0056 PC (E		4048879160186
Operating voltage AC max.       50 V         Operating voltage AC max.       60 V         Operating voltage AC max.       40 V         Operating voltage AC (UL-listed)       30 V         Operating voltage AC (UL-listed)       30 V         Operating voltage AC (UL-listed)       30 V         Device production (EM EC 60828)       IP65, IP67, IP60K         Additumal condition protection (EM EC 60828)       IP65, IP67, IP60K         Additumal condition protection (EM EC 60828)       IP68, IP67, IP60K         Additumal condition protection diagree       inserted, screwed         Pallution Degree       3         Rated argou [IEC 6066-1)       I         Mechanical data [Material data]       Colump of listing         Colum of listing       mick plated         Colum of listing       Inserted, screwed, Shaking protection         Additional condition formerature may       25 °C         Operating voltage of cable esc.       Addition condition formerature may         Additional condition formerature may       25 °C         Operating temperature may <t< td=""><td>Packaging unit</td><td>1</td></t<>	Packaging unit	1
Operating voltage AC max.       50 V         Operating voltage AC max.       60 V         Operating voltage AC max.       40 V         Operating voltage AC (UL-listed)       30 V         Operating voltage AC (UL-listed)       30 V         Operating voltage AC (UL-listed)       30 V         Device production (EM EC 60828)       IP65, IP67, IP60K         Additumal condition protection (EM EC 60828)       IP65, IP67, IP60K         Additumal condition protection (EM EC 60828)       IP68, IP67, IP60K         Additumal condition protection diagree       inserted, screwed         Pallution Degree       3         Rated argou [IEC 6066-1)       I         Mechanical data [Material data]       Colump of listing         Colum of listing       mick plated         Colum of listing       Inserted, screwed, Shaking protection         Additional condition formerature may       25 °C         Operating voltage of cable esc.       Addition condition formerature may         Additional condition formerature may       25 °C         Operating temperature may <t< td=""><td>Electrical data   Supply</td><td></td></t<>	Electrical data   Supply	
Operating voltage AC (UL-lated)       30 V         Operating voltage AC (UL-lated)       30 V         Operating voltage AC (UL-lated)       30 V         Current operating per contact max.       4 A         Device protection [Enterital       Deprating voltage AC (UL-lated)         Material group voltage AC (UL-lated)       1         Material group (UEC 6068-1)       1         Material group (UEC 6068-1)       1         Material group (UEC 6068-1)       1         Declaring of triming       nickeled         Colar outsing       black         Colar outsing       black         Colar outsing       black         Colar outsing       Tr. die casting         Material group (UEC 6066-1)       1         Material group (UEC 6066-1)       1		50 V
Operating voltage AC (UL-listed)       30 V         Operating voltage AC (UL-listed)       30 V         Corrent operating per contact max.       4 A         Device protection   Electrical       Electrical         Dagree of protection (EN IEC 60529)       IP65, IP67, IP66K         Additorial contidion protection degree       3         Reade surge voltage max.       3         Reade surge voltage       1         Methanical data [Material data       Contact max.         Coaling tocking       Nickelod         Coaling tocking material atter       Nickelod         Coaling tocking material attere       Nickelod		
Operating port or number       4 A         Device optical Discritical       4 A         Device optical Discritical       50%         Depice of protection (EN IEC 60529)       IP65, IP67, IP66K         Additional condition protection degree       inserted, screwed         Publisin Degree       3         Rated surge voltage       1         Matchinal (Balance)       1         Mechanical data [Matchinal data]       Mickelled         Coating (Disking)       Nickelled         Matchinal coating (Disking)       Nickelled         Coating (Disking)       Nic easting         Mounting met		
Ourrent operating per contact max.       4 A         Device protection   Flect/full         Device of protection   Flect/full         Device of protection (FLEC 60563)       IP65, IP67, IP68K         Additional condition protection degree       inserted, screwed         Patilue Dugree       3         Rated surge voltage       1.5 kV         Material group (EC 60664-1)       1         Mechanical data   Material data       Color ontact carrier         Color contact carrier       green         Locking material       Zine de-casting         Material group (EC 60664-1)       Zine de-casting         Material group material       Zine de-casting         Material screw connection       Zine de-casting         Material properature max.       85 °C         Additional condition interperature max.       85 °C         Additional condition interperature may.       85 °C         Note on berding radius       Attention: Coloror tob suitable measures from mechanical loads, e.g. by the usago of		
Degree of protection (EN IEC 6052)       IP65, IP67, IP66K         Addinani condition protection degree       inserted, screwed         Pollution Degree       3         Bated surge voltage       1,5 kV         Material group (IEC 60664-1)       I         Mechanical data   Material data       Coding loching         Ocaling loching       Nickeled         Coding loching       Nickeled         Coding loching       Nickeled         Color contact carrier       green         Loching material       Zinc die casting         Material grew wonnection       Zinc die casting         Material arxew wonnection       Zinc die casting         Departing temporat		4 A
Additional condition protection degree       isserted, screwed         Pollution Degree       3         Relatid surge voltage       1, 5 kV         Material group (EC 6064+1)       1         Mechanical data   Material data       Coating locking         Coating locking       Nickeled         Coating locking       Nickeled         Color contact carrier       green         Locking material       Zinc die-casting         Mechanical data [ Mounting data       Mechanical data [ Mounting data         Mechanical data [ Mounting data       Inserted, screwed, Shaking protection         Environmental characteristics [ Climatic       Cooperating temperature max.         Operating temperature max.       85 *C         Additional condition temperature may       depending on cable quality         Important installation notes       Attention: Cosensive the parmissible bending radii when laying cables, as the IP protection class can be endangered by sccessive bending forces.         Cotormity       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tes.         Protect tandard       DIN EN 61076-2-110 (M12), DIN EN 61076-2-114 (M8)         Installation (Cable       Gali         Cable chertification       G31         Cable chertification<	Device protection   Electrical	
Additional condition protection degree       isserted, screwed         Pollution Degree       3         Relatid surge voltage       1, 5 kV         Material group (EC 6064+1)       1         Mechanical data   Material data       Coating locking         Coating locking       Nickeled         Coating locking       Nickeled         Color contact carrier       green         Locking material       Zinc die-casting         Mechanical data [ Mounting data       Mechanical data [ Mounting data         Mechanical data [ Mounting data       Inserted, screwed, Shaking protection         Environmental characteristics [ Climatic       Cooperating temperature max.         Operating temperature max.       85 *C         Additional condition temperature may       depending on cable quality         Important installation notes       Attention: Cosensive the parmissible bending radii when laying cables, as the IP protection class can be endangered by sccessive bending forces.         Cotormity       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tes.         Protect tandard       DIN EN 61076-2-110 (M12), DIN EN 61076-2-114 (M8)         Installation (Cable       Gali         Cable chertification       G31         Cable chertification<	Degree of protection (EN IEC 60529)	IP65, IP67, IP66K
Pollution Degree   3     Rated surge voltage   1,5 kV     Material group (EC 60664-1)   1     Mechanical data   Material data   Coating of Itting     Nickele plated   Coating of Itting     Nickele plated   Coating of Itting     Color housing   Black     Color ontact carrier   green     Locking material   Zinc die-casting     Material screw connection   Zinc die-casting     Mechanical data   Mounting data   inserted. screwed, Shaking protection     Environmental characteristics   Climatic   Coperating temperature max.     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   Attention: Observe theorinscip to sy suitable measures from mechanical loads, e.g. by the usage of cable ties.     Note on strain rollef   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.     Note on bending radius   Attention: Observe theoring radiu whon laying cables, as the IP protection class can be endangered by encessive bending forces.     Color   Daka     Cable identification   631     Cable identification   631     Cable identification   631     Cable identification   631     Cable identification   631 <td></td> <td></td>		
Rate aurgo voltage       1,5 kV         Material group (IEC 6064-1)       I         Mechanical data   Material data       Vickeled         Coating locking       Nickeled         Coating of Hiling       nickel plated         Color contact carrier       green         Locking material       Zinc die-casting         Mechanical data   Mounting data       Material screw connection         Mechanical data   Mounting data       Inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Operating temperature min.         Operating temperature min.       -25 °C         Operating temperature min.		
Mechanical data   Material data         Coating locking       Nickeled         Coating locking       Nickeled         Coating of fitting       nickel plated         Color housing       black         Color contact carrier       green         Locking material       Zine die-casting         Material screw connection       Zine die-casting         Material screw connection       Zine die-casting         Material screw connection       Zine die-casting         Mounting method       inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Operating temperature man.         Operating temperature man.       65 °C         Operating temperature man.       65 °C         Additional condition temperature range       depending on cable quality         Important Installation notes       Attention: Observe the permissible bending radii when laying cables, as the iP protection class can be endaragreed by excessive bending forces.         Cotormy       Cable Type         Product standard       DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)         Installation (Cable       Gall         Cable Type       3         Jacket Color       black         Type of Certificate		1,5 kV
Coating locking       Nickeled         Coating of fitting       nickel plated         Color contact carrier       green         Locking matorial       Zinc die casting         Material screw connection       Zinc die casting         Mounting method       Inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Operating temperature min.       25 °C         Operating temperature min.       25 °C       Operating temperature max.       85 °C         Additional condition temperature max.       85 °C       Additional condition temperature max.       85 °C         Note on strain relief       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tellse.         Note on strain relief       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tellse.         Cable on bending radius       Cable on bending radius       Salt Contornity         Product standard       DIN EN 61076-2·101 (M12), DIN EN 61076-2·114 (M8)       Salt Color         Cable on bending radius       Galt       Cable dentification	Material group (IEC 60664-1)	
Coating of fitting       nickel plated         Color foutiat carrier       green         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Mechanical data   Mounting data       Mechanical data   Mounting data         Mechanical data   Mounting data       Inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Coperating temperature man.         Operating temperature max.       85 °C         Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality         Important installation notes       Instance of 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 strain relief       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Note on strain relief       DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)         Installation   Cable       Cable identification         Gable identification       Ga1         Cable identification       Ga1         Cable identification       Ga1         Cable identification	Mechanical data   Material data	
Coating of fitting       nickel plated         Color foutiat carrier       green         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Mechanical data   Mounting data       Mechanical data   Mounting data         Mechanical data   Mounting data       Inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Coperating temperature man.         Operating temperature max.       85 °C         Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality         Important installation notes       Instance of 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 strain relief       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Note on strain relief       DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)         Installation   Cable       Cable identification         Gable identification       Ga1         Cable identification       Ga1         Cable identification       Ga1         Cable identification	•	Nickeled
Color housing       black         Color contact carrier       green         Locking material       Zinc die-casting         Material screw connection       Zin c die-casting         Mechanical data   Mounting data       inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Color constitute max         Operating temperature min.       -25 °C         Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality         Important installation notes       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). DIN EN 61076-2-114 (M8)         Installation [Cable]       Cable identification         Cable identification       631         Cable identification       631         Cable identification       631         Cable weight       33 grim         Material jacket       PUR         Stranding       1         Stranding       90 ± 5 Shore A         Freedom from ingredients (jacket)       iead-free, cadmium-free, CFC-free, halogen-free, silicone-f		
Color contact carrier       green         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Mechanical data   Mounting data       Mounting method         Inserted, screwed, Shaking protection       Environmental characteristics   Climatic         Operating temperature 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 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.         Conformity       Eable lottification         Cable dentification       631         Cable Type       3         Jacket Color       black         Type of Certificate       cURus         Amount stranding       1         Stranding       4 wires twisted         wire aranagement		-
Material screw connection       Zinc die-casting         Mechanical data   Mounting data       inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Coperating temperature main.       -25 °C         Operating temperature max.       85 °C       Additional condition temperature max.       85 °C         Additional condition temperature max.       85 °C       Additional condition temperature max.       85 °C         Additional condition temperature max.       85 °C       Additional condition 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 strain relief       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 strain relief       DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)         Installation   Cable       Cable type         Cable type       3         Jacket Color       black         Type of Certificate       cUBus         Amount stranding       1         Stranding       4 wires twisted         Wire arrangement       brown,		
Mechanical data   Mounting data         Mounting method       inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Operating temperature max.       85 °C         Operating temperature max.       85 °C       Additional condition temperature max.       85 °C         Additional condition temperature max.       85 °C       Additional condition 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 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.         Contomity       Installation I Cable         Cable identification       631         Cable identification       631         Cable identification       631         Cable identificate       cURus         Amount stranding       1         Stranding       4 wires twisted         wire arrangement       brown, black, blue, while         Cable weigth       33 g/n         Material jacket       PUR         Shore hardneses jac	Locking material	Zinc die-casting
Mounting method       inserted, screwed, Shaking protection         Environmental characteristics   Climatic         Operating temperature min.       -25 °C         Operating temperature max.       85 °C         Additional condition temperature max.       85 °C         Additional condition temperature max.       85 °C         Additional condition temperature may.       depending on cable quality         Important installation notes       Note on strain relief         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         Installation   Cable       Cable identification         Gable       Gala         Cable identification       631         Cable identification       631         Cable identification       631         Cable identification       631         Gabe identification       631         Cable identification       631         Gabe identification       631         Cable identification       631         Cable identification	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       Mote on strain relief       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), DIN EN 61076-2-114 (M8)         Installation   Cable       Cable tientification       631         Cable Type       3       Jacket Color         black       CuPus       Mount stranding         Attention   device twisted       wire arrangement       brown, black, blue, while         Cable weight       33 g/m       Material jacket       PUR         Shore hardness jacket       90 ± 5 Shore A       Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Outer-diameter (jacket)       4,5 mm       Tolerance outer diameter (sh	Mechanical data   Mounting data	
Operating temperature min25 °COperating temperature max.85 °CAdditional condition temperature rangedepending on cable qualityImportant installation notesNote on strain reliefProtect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.Note on bending radiusAttention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.ContormityInstallation [ CableProduct standardDIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)Installation [ CableCable identificationCable identification631Cable Identification631Jacket ColorblackType of CartificatecURusAmount stranding1Stranding4 wires twistedwire arrangementbrown, black, blue, whiteCable weight33 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter (jacket)4.5 %Material wire insulationPPAmount wires4	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         Product standard       DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)         Installation   Cable       Cable Identification         Cable Identification       631         Cable Identification       631         Cable Identificate       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	Environmental characteristics   Climatic	
Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality         Important installation notes          Note on strain relief       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endingered by excessive bending forces.         Conformity          Product standard       DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)         Installation I Cable          Cable identification       631         Cable I 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 A additional free, cadmium-free, CFC-free, halogen-free, silicone-free         Outer diameter (jacket)       4,5 mm         Tolerance outer diameter (sheath)       ± 5 %	Operating temperature min.	-25 °C
Important installation notesNote on strain reliefProtect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.Note on bending radiusAttention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.ConformityProduct standardDIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)Installation   CableCable identification631Cable identification631Cable identificationblackType of CertificatecURusArmount stranding1Stranding4 wires twistedwire arrangementbrown, black, blue, whiteCable weigth33 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)4,5 mmTolerance outer diameter (sheath)± 5 %.Material wire insulationPPAmount wires4		85 °C
Note on strain reliefProtect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.Note on bending radiusAttention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.ConformityProduct standardDIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)Installation   CableCable identification631Cable identification631Cable ColorblackType of CertificatecuBusArmount 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 mTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires4	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), DIN EN 61076-2-114 (M8)       Installation   Cable     Cable identification     631       Cable identification     631     Cable identificate     CURus       Amount stranding     1     Stranding     4 wires twisted       Wrie 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-free       Outer-diameter (jacket)     4,5 mm     PP     Amount wires     4	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 forces.       Conformity     Product standard     DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)       Installation   Cable     Cable identification     631       Cable identification     631     Cable identificate     CURus       Amount stranding     1     Stranding     4 wires twisted       Wrie 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-free       Outer-diameter (jacket)     4,5 mm     PP     Amount wires     4	Note on strain relief	Protect the connectors by suitable measures from mechanical loads. e.g. by the usage of cable ties.
ConformityProduct standardDIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)Installation   CableCable identification631Cable 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 wire insulationPPAmount wires4		Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Product standardDIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)Installation   CableCable identification631Cable 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 (jacket)± 5 %Material wire insulationPPAmount wires4		endangered by excessive bending forces.
Installation   CableCable identification631Cable Type3Jacket ColorblackType of CertificatecURusAmount stranding1Stranding4 wires twistedwire arrangementbrown, black, blue, whiteCable weigth33 g/mMaterial 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 wires4	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 wires4	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-freeOuter-diameter (jacket)4,5 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires4	Installation   Cable	
Jacket 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 wires4	Cable identification	631
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 wires4	Cable Type	3
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 wires4	Jacket Color	black
Stranding4 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 wires4	Type of Certificate	cURus
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 wires4	Amount stranding	1
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 wires4		
Material jacket   PUR     Shore hardness jacket   90 ± 5 Shore A     Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free     Outer-diameter (jacket)   4,5 mm     Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   PP     Amount wires   4	-	
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		
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 (jacket)   4,5 mm     Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   PP     Amount wires   4		
Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   PP     Amount wires   4		
Material wire insulation   PP     Amount wires   4		
Amount wires 4		
Outer diameter insulation 1,25 mm		
	Outer diameter insulation	1,25 mm

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: 2024-05-02



Outer diameter tolerance core insulation	± 5 %
Shore hardness wire insulation	70 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)	32
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,25 mm²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Traversing distance (C-track)	10 m @ 25 °C   horizontal
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
No. of torsion cycles	2 Mio.
Torsion speed	35 cycles/min
Torsion stress	± 180 °/m

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: 2024-05-02