

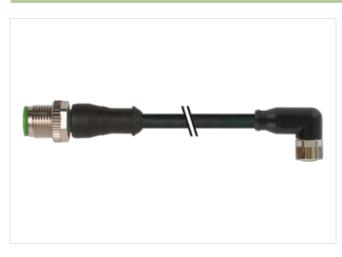
## M12 male 0° / M8 female 90° A-cod.

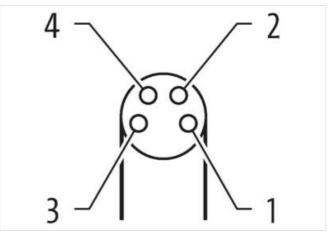
PUR 4x0.25 bk UL/CSA+drag ch. 5.5m

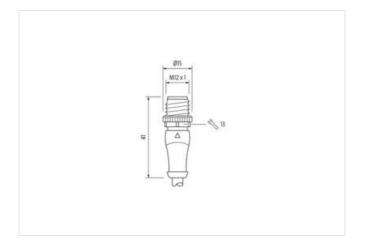
Male straight – female 90° M12 – M8, 4-pole Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## Link to Product

## Illustration



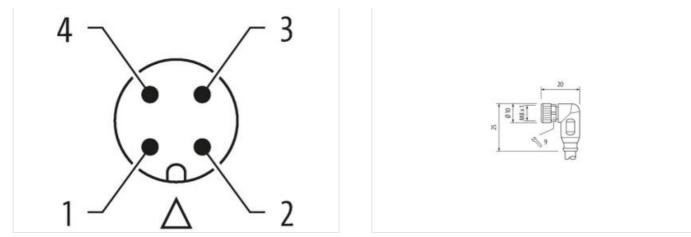






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Product may differ from Image



Cable length	5,5 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 Ø)	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

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GTN 404897964/72   Packaging unit 1   Electrical disal Suppy Electrical disal Suppy   Operating voltage Comax 50 V   Operating voltage Comax 4 A   Device protection (Electrical) Device protection (Electrical)   Device protection (Electrical) 1   Material group (Ele 56064 1) 1   Material g	customs tariff number	85444290
Electrical data   Supply     Constrainy onloga AC max.     60 V       Operatiny onloga AC max.     60 V     Constrainy onloga AC (ML-Isted)     30 V       Operatiny onloga AC (UL-Isted)     30 V     Constrainy onloga AC (UL-Isted)     30 V       Operatiny onloga AC (UL-Isted)     30 V     Constrainty onloga AC (UL-Isted)     20 V       Device rotection   Electrical     Electrical screwed     Constrainty onloga AC (UL-Isted)     20 V       Additional condition protection degree     inserted, screwed     Constrainty onloga     3       Additional condition protection degree     inserted, screwed     Constrainty onloga     3       Additional condition protection degree     inserted, screwed     Constrainty onloga     1       Bechanical data Marei adata     Marei al group (IEC 6068-1)     1     Inserted, screwed     Constrainty onloga     1       Bechanical data Marei adata     Marei al group (IEC 6068-1)     1     Inserted, screwed     Constrainty onloga     1       Material screw connection     Zine die casting     Constrainty onloga     1     Screweg     Constrainty onloga     1     Screweg     Constrainty onloga     Screweg     Constrainty onloga<	GTIN	4048879664752
Operating voltage AC max.     50 V       Operating voltage AC (UL-stace)     60 V       Operating voltage AC (UL-stace)     30 V       Operating voltage AC (UL-stace)     30 V       Operating voltage AC (UL-stace)     30 V       Overet operating per contact max.     4 A       Device oprediction [ENEC60528)     IP68, IP67, IP66K       Addinonal condition protection diagree     inserted, screwed       Polution Degree     3       Rated surge voltage     1, 54 V       Maxinal group (EG 0606-1)     1       Interfacion data [ Material data     Conding Operating (EG 0606-1)       Conding Operating (EG 0606-1)     1       Interfacion data [ Material data     Conding Operating (EG 0606-1)       Conding Operating (EG 0606-1)     1       Interfacion data [ Material data     Conding Operating (EG 0606-1)       Conding Operating (EG 0606-1)     1       Material Errow connection     Zinc dia casting       Material Errow connection     Zinc dia casting       Material Errow connection     Zinc dia casting       Material Condin Conding Conding     (Ippending 0600000000000000000000000000000000000	Packaging unit	1
Operating vertage DC (TLL-issed)     30 V       Operating vertage AC (LL-issed)     30 V       Current operating per contact max.     4 A       Device protection [ENECC60529)     IP65, IP67, IP66K       Additional condition protection degree     insertet, screwed       Dicklosin Device protection [ENECC60529)     IP65, IP67, IP66K       Additional condition protection degree     insertet, screwed       Dicklosin Degree     3       Rates area voltage     1,5 kV       Material group (IEC 60064 1)     I       Mechanical dots [Material data     Coaling of filting       Coaling of filting     inckvield       Color contact carlier     green       Loading antaling     Zinc die-casting       Material screw connection     Zin or die-casting       Mounting metho     inserted, screwed, Shaking protection       Evicomental characteristics [Climatic     Operating inserted screwed, Shaking protection       Operating inserted screwed, Shaking protection	Electrical data   Supply	
Operating vertage DC (TLL-issed)     30 V       Operating vertage AC (LL-issed)     30 V       Current operating per contact max.     4 A       Device protection [ENECC60529)     IP65, IP67, IP66K       Additional condition protection degree     insertet, screwed       Dicklosin Device protection [ENECC60529)     IP65, IP67, IP66K       Additional condition protection degree     insertet, screwed       Dicklosin Degree     3       Rates area voltage     1,5 kV       Material group (IEC 60064 1)     I       Mechanical dots [Material data     Coaling of filting       Coaling of filting     inckvield       Color contact carlier     green       Loading antaling     Zinc die-casting       Material screw connection     Zin or die-casting       Mounting metho     inserted, screwed, Shaking protection       Evicomental characteristics [Climatic     Operating inserted screwed, Shaking protection       Operating inserted screwed, Shaking protection	Operating voltage AC max	50 V
Operating voltage AC (UL-listed)     30 V       Operating voltage AC (UL-listed)     30 V       Corrent operating por contact max.     4 A       Device protection   Electrical     Image: AC (UL-listed)       Degree of protection (EN IEC 80528)     Image: AC (UL-listed)       Additional considies protection degree     3       Read surge voltage     3       Read surge voltage     1.5 IV       Material group (IEC 80584)     I       Mechanical data   Material data     Coating locing       Coating locing     Nickeled       Coating locing     Nickeled       Coating locing     Nickeled       Coating numbrial     Zinc dio-coating       Material screw comercion     Zinc dio-coating       Material protectin fistin		
Operating vorlage DC (U-listed)     30 V       Carrent operating per centext max.     4 A       Device optection [Electrical        Device optection [Electrical        Device optection [Electrical        Device optection [Electrical        Device optection optice     inserted, served       Politation Degree     3       Rated aurge voltage     1.5 kV       Material group (EC 606841)     1       Mechanical data [Interni data        Coaling of fifting     nickel plated       Coaling of fifting     nickel plated       Color notate carrier     green       Locking method     Zinc die- casting       Mechanical data [I Nouring data        Meunting method     inserted, screwed, Shaking protection       Environmetal characteristics [ Climatic        Operating temperature max.     25 °C       Coperatin installation notes     S° °C       Note on bardin ration     Protect the connectors by autable measures from mechanical loads, e.g. by the usage of cable lises.       Note on saian ratio     Div N EN 61076-2-101 (M12), Di N EN 61076-2-114 (M8)		
Current operating per contact max.     4 A       Device protection   Electrical       Degree of protection (EN EC 60589)     IP65, IP67, IP68K       Additional condition protocion degree     3       Rated surge voltage     1,5 kV       Material group (EC 60564-1)     1       Mechanical data   Material data     Coating locking       Coating locking     Nickeld       Coating locking     black       Color contact carrier     green       Locking material     Zinc die casting       Material screw connection     Zinc die casting       Poraling temperature max.     85 °C       Color contact arter     green       Locking material     Note of an casting<		30 V
Degree of protection (EN IEC 60529)     IP65, IP67, IP66K       Additiona condition protection degree     inserted, screwed       Pollution Degree     3       Rated aurge voltage     1,5 kV       Material group (IEC 60641)     I <b>Vechnical data   Material data</b> Color (IEC 60641)       Coating locing     Nekeled       Coating locing     Vechnical data       Color contact carrier     green       Locking material     Zinc die-casting       Material screw contection     Zinc die-casting       Material screw contectine min.     Zin Contection		4 A
Additional condition protection degree inserted, screwed   Pollution Degree 3   Rated surge voltage 1,5 kV   Material group (EC 6064-1) 1   Mechanical data   Material data Exceleded   Coaling locking Nickleded   Coaling ofting nickle pated   Color contact carrier green   Locking material Zinc die-casting   Material screw connection 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.   26 °C Quality method   Motorin installation notes Si °C   Note on stain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   Note on berding radus Atterior: Coserve the permissible bending radii when laying cables, as the IP protection dass can be endargered by excessive bending forces.   Contomity Product standard DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)   Installation [Cable Cable chalification 631   Cable identification 631 Cable chalification 631   Cable identification 631 Cable chalification	Device protection   Electrical	
Additional condition protection degree inserted, screwed   Pollution Degree 3   Rated surge voltage 1,5 kV   Material group (EC 6064-1) 1   Mechanical data   Material data Exceleded   Coaling locking Nickleded   Coaling ofting nickle pated   Color contact carrier green   Locking material Zinc die-casting   Material screw connection 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.   26 °C Quality method   Motorin installation notes Si °C   Note on stain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   Note on berding radus Atterior: Coserve the permissible bending radii when laying cables, as the IP protection dass can be endargered by excessive bending forces.   Contomity Product standard DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)   Installation [Cable Cable chalification 631   Cable identification 631 Cable chalification 631   Cable identification 631 Cable chalification	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 titing       Coating of titing     Nickeled       Coating of titing     nickele plated       Color nousing     black       Color nousing     black       Color nousing     black       Color contact carrier     green       Locking material     Zinc die-casting       Material screw connection     Zinc die-casting       Munting mathod     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Color contact carrier       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important installation notes     Attention: Chaerose the permissible barding radii when laying cables, as the IP protection class can be ending radius       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable files.       Note on bending radius     Attention: Chaerose the permissible barding radii when laying cables, e.g. the is a can be ending forocas.		
Material group (IEC 60664-1)     I       Mechanical data   Material data     Coading of King       Coading of King     Nickele Jaed       Coading of King     black       Color housing     black       Color contact carrier     green       Locking material     Zinc die-casting       Material screw connection     Zinc die-casting       Mechanical data   Mounting data     Mouning method       Mouning method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature max.       Operating temperature max.     85 °C       Addition temperature max.     85 °C       Addition temperature max.     85 °C       Note on stain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on stain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on stain relief     DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)       Installation Cable     Cable togen: the permissible bending radi when laying cables, as the IP protection diass can be endangered by excessive bending forces.       Coriornity     IN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)		
Mechanical data   Material data       Coating locking     Nickeled       Coating locking     black       Color contact carrier     green       Locking material     Zinc die-casting       Material screw connection     Zinc die-casting       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Coercimg       Operating temperature man.     25 °C       Operating temperature man.     85 °C       Addition temperature man.     85 °C       Addition temperature man.     85 °C       Note on strin reliel     Protext the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on strin reliel     DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)       Installation (Cable     Since facuting ting ting ties ties ties ties ting ties ties ties ting ties	Rated surge voltage	1,5 kV
Coating locking     Nickeled       Coating of titing     nickel plated       Color chusing     black       Color chusing     black       Color chusing     green       Locking material     Zinc die casting       Material screw connection     Zinc die casting       Material screw connection     Zinc die casting       Munting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Contrasting       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 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     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Diate Additication     631       Cable dentification     631       Cable dentification     631	Material group (IEC 60664-1)	
Coating of fitting     nickel plated       Color contact carrier     green       Locking material     Zinc die-casting       Material screw connection     Zinc die-casting       Mechanical data   Mounting data     Mounting method       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Coperating temperature max.       Operating temperature max.     85 °C       Additional condition temperature max.     85 °C       Additional condition temperature may     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     Installation   Cable     Conformity       Product standard     DIN EN 61076-2-011 (M12), DIN EN 61076-2-114 (MB)       Installation   Cable     631     Cable dentification       Cable dentification     631     Cable dentification<	Mechanical data   Material data	
Coating of fitting     nickel plated       Color contact carrier     green       Locking material     Zinc die-casting       Material screw connection     Zinc die-casting       Methanical data   Mounting data     Mounting method       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature min.       -25 °C     Operating temperature max.       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.       Caformity     Installation   Cable       Product standard     DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (MB)       Installation   Cable     Cable (wriftication       Cable (wriftication     631       Cable (wriftication     631       Cable (wrifticate     cUPlus       Anount strainding     1       Stranding     4 wise twisted       wire arrangement     brown, black, blue, white	Coating locking	Nickeled
Color housing     black       Color housing     green       Locking material     Zinc de-casting       Material screw connection     Zinc de-casting       Mechanical data   Mounting data     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Color housing       Operating temperature min.     -25 °C       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important installation notes     Note on strain relief       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     Ended class Cable identification       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 identificatis     Cubrow		
Locking material     Zinc die-casting       Material screw connection     Zinc die-casting       Mechnical data   Mounting data     Inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature min.     -25 °C       Operating temperature max.     85 °C     Additional condition temperature may     depending on cable quality       Important installation notes     Note on strin relief     Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable ties.       Note on strin relief     Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable ties.       Note on strin relief     Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable ties.       Note on strin relief     Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable ties.       Note on strin relief     DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)       Installation   Cable     Environmental content science in the science i		black
Material screw connection     Zinc die-casting       Mechanical data   Mounting data     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature main.     -25 °C       Operating temperature max.     85 °C     Additional condition temperature range     depending on cable quality       Important Installation notes     Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on 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 bending radius     Attention: Observe the permissible bending forces.       Conformity     Product standard       DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)       Installation   Cable     Cable Type       Cable Type     3       Jacket Color     black       Type of Cartificate     cURus       Amount stranding     1       Stranding     4 wires twisted	Color contact carrier	green
Mechanical data   Mounting data       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature min.     -25 °C       Operating temperature max.     85 °C     Additional condition temperature may.     depending on cable quality       Important installation notes     Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on bending radius     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Contomity     Installation (Cable       Product standard     DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)       Installation (Cable     Cable Identification       Gable Type     3       Jacket Color     Dlack       Type of Certificate     CURUs       Amount strainding     1       Stranding     4 wires twisted       wire arrangement     brown, black, blue, white       Cable weight     33 g/m       Material jacket     PUR       Shore hardness jacket     90 ± 5 Shore A       Freedom from ingredients (jacket)     4 5 %	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 maye     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.       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       Product standard     DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)       Installation   Cable     Cable identification       Gable identification     631       Cable Identification     631       Cable Identification     631       Cable identification     631       Stranding     1       Stranding     1       Stranding     1       Stranding     4 wires twisted       wire arrangement     brown, black, blue, white       Cable weigth     33 g/m	Material screw connection	Zinc die-casting
Environmental characteristics   ClimaticOperating temperature min25 °COperating temperature max.85 °CAdditional condition temperature max.85 °CAdditional condition temperature rangedepending on cable qualityImportant installation notesProtect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.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.ConformityInstallation [ CableProduct standardDIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M6)Installation [ CableCable identificationCable identification631Cable Type3Jacket ColorblackType of CertificatecuRusAmount stranding1Stranding4 wires twistedwire arrangementbrown, black, blue, whiteCable weight33 g/mMaterial jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter (jacket)4.5 %Material wire insulationPPAmount wires4	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 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 standardProduct standardDIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)Installation   CableCable identificationCable identification631Cable identification631Cable ColorblackType of CertificatecURusAmount stranding1Stranding4 wires twistedwire arrangementbrown, black, blue, whiteCable weigth33 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadnium-free, CFC-free, halogen-freeOuter (jacket)4.5 mmTolerace outer (jacket)± 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   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     Product standard   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)     Installation   Cable   Cable identification     Cable identification   631     Cable weigth   33 g/m	Environmental characteristics   Climatic	
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       Product standard     DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)       Installation   Cable     Cable identification       Cable identification     631       Cable Z     DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)       Installation   Cable     Cable Color       Cable Z     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,	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 fies.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 IdentificatecURusAmount 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		85 °C
Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on bending radius     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Conformity     Product standard     DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)       Installation   Cable     Cable identification     631       Cable identification     631     Cable identificate       Curry point     black     Curry       Type of Certificate     cURus     Attention       Amount stranding     1     Stranding     4 wires twisted       wire arrangement     brown, black, blue, white     Cable weigth     33 g/m       Material jacket     PUR     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	Additional condition temperature range	depending on cable quality
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 identification     631       Cable identification     631     Cable identificate       Curry point     black     Curry       Type of Certificate     cURus     Attention       Amount stranding     1     Stranding     4 wires twisted       wire arrangement     brown, black, blue, white     Cable weigth     33 g/m       Material jacket     PUR     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	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 Color     black       Type of Certificate     cURus     Current (Mage)     Material (Mage)       Mote on stranding     1     Stranding     4 wires twisted       Write arrangement     brown, black, blue, white     Cable weigth     33 g/m       Shore hardness jacket     PUR     Shore A     Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer-diameter (jacket)     4,5 mm     PP     Amount wires     4		Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties
Note on behalting radius   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 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     Outer-diameter (jacket)   4,5 mm     Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   PP     Amount wires   4	<u>.</u>	
Product standardDIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)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)± 5 %Material wire insulationPPAmount wires4	Note on bending radius	
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 %Amount 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-free, silicone-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-free, silicone-freeOuter-diameter (jacket)± 5 %Material wire insulationPPAmount wires4	Installation   Cable	
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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-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		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	Stranding	4 wires twisted
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	-	brown, black, blue, white
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		
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	<b>.</b>	·
Amount wires 4		
Outer diameter insulation 1,25 mm		
	Outer diameter insulation	1,25 mm

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

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