

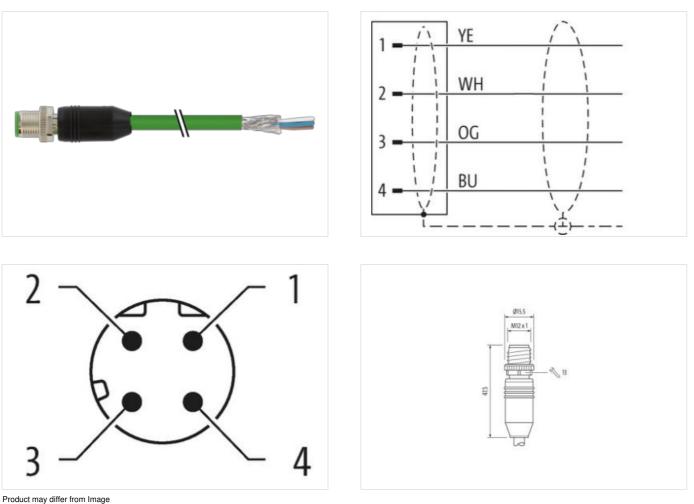
## M12 male 0° D-cod. with cable shielded

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 30m

Ethernet CAT5 Transmission properties with channel transmission up to 100 m Male straight Cable is approved for 600 V M12, 4-pole D-coded shielded Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

## 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: 2024-05-18



Cable length	30 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	D
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Commercial data	
ECLASS-6.0	27061801
ECLASS-6.1	27060307
ECLASS-7.0	27060307
ECLASS-8.0	27060307
ECLASS-9.0	27060307
ECLASS-10.1	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879740838
Packaging unit	1
Electrical data   Supply	
Operating voltage DC max.	60 V
Current operating per contact max.	1,5 A
Industrial communication	
Transfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)
Data transmission rate max.	100 MBit/s
Industrial communication   Ethernet fund	ctionality
duplex	Full duplex
Installation   Connection	
Mounting set	M12 x 1
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	I
Mechanical data	
Contour for corrugated hose	without
Mechanical data   Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
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 min.	-LJ V

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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 dias can be endangered by excessive bending forces.       Contornity     Product standard       Product standard     DIN EN 61076-2-101 (M12)       Installation I Cable     Cable dentification       Cable dentification     659       Jacket Cobr     green       Type of Cartificate     cUPus       Amount stranding     1       Stranding     4 wires around Core filter twisted       Cable shielding (type)     copper braid, linned       Cable shielding (coverage)     85 %       Banding     Filter       Yees     wite arrangement       White arrangement     white, yellow, blue, orange       Cable shielding (coverage)     85 %       Banding     19 m       Store hardness jacket     PUR       Shore hardness jacket     PUR       Shore hardness jacket     PUR       Shore hardness jacket <th>temperature max.</th> <th>85 °C</th>	temperature max.	85 °C
Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on bending radius     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Contomity     Product standard     DIN EN 61076-2-101 (M12)       Installion (Cable     Contomity     Contomity       Cable identification     659     Contomity       Adapted Color     green     Contomity       Type of Cortificate     CURus     Contomity       Amount stranding     1     Stranding     4 wires around Core filler twisted       Cable schedulectore     85 %     Contomity     Contomity       Wires around Core filler twisted     Color     Contomity     Force (Cable Schedule)       Banding     Fleece, Foll     Filler     Yes     Schedule)     Contomity       File     Yes     Stranding     Schedule)     Schedule)     Contomity       File     Yes     Schedule)     Schedule)     Contomity     Schedule)       Gabie schedule     90.2 Shore A     Freedom from ingredients (gacket)     Sch <th< td=""><td>I condition temperature range</td><td>depending on cable quality</td></th<>	I 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 ordangered by oxcessive bending forces.       Conformity     Image: Conformity       Product standard     DIN EN 61076 2-101 (M12)       Installation I Cable     Conformity       Cable identification     659       Jacket Color     green       Type of Certificate     cURus       Amount stranding     1       Stranding     4 wires around Core filler twisted       Cable shielding (type)     cooper braid, timed       Cable shielding (coverage)     85 %       Banding     Fleece, Foil       Filer     yes       wire arrangement     white, yellow, blue, orange       Cable-shielding (type)     Coper For A       Freedom from ingredients (tacket)     PuR       Shore hardness jacket     90 ± Shore A       Freedom from ingredients (tacket)     Lead-tree, CFC-free, halogen-free       Outer diameter (speat)     # 5 %       Material inner jacket     PE       Outer diameter (sheath)     # 5 %       Shore hardness wire insulation     PE       Amount st	nt installation notes	
Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be ordangered by excessive bending forces.       Conformity       Product standard     DIN EN 61076 2-101 (M12)       Installation   Cable     Comment       Cable identification     659       Jacket Color     green       Type of Certificate     cURus       Amount stranding     1       Stranding     d wires around Core filler twisted       Cable shielding (type)     cooper braid, timed       Cable shielding (coverage)     85 %       Banding     Fleece, Foil       Filer     yes       wire arrangement     white, yellow, blue, orange       Cable shielding (type)     Coc.FC-free, halogen-free       Outer diameter (gackt)     PUR       Shore hardness jackt     90 ± Shore A       Freedom from ingredients (gackt)     Iead-free, CFC-free, halogen-free       Outer diameter (sheath)     ± 5 %       Material inner jacket     PE       Color (inner jacket)     PE       Amount standin     Fe       Outer diameter (sheath)     ± 5 %       Shore hardness wire insu	train relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Conformity     Diversifier Section (M12)       Product standard     Diversifier Section (M12)       Installation (Cable     Cable identification       Cable identification     659       Jacket Color     green       Type of Certificate     CURus       Amount stranding     1       Stranding     4 wires around Core filler twisted       Cable shielding (type)     copper braid, tinned       Cable shielding (type)     opper braid, tinned       Cable shielding (type)     copper braid, tinned       Cable shielding (type)     strandard       Cable shielding (type)     strandard       Cable shielding (type)     strandard       Cable shielding (type)     strandard       Cable shielding (type)		Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable       Cable identification     659       Jacket Color     green       Type of Cartificate     URus       Amount stranding     1       Stranding     4 wires around Core filler twisted       Cable shielding (type)     coppor braid, tinned       Cable shielding (coverage)     85 %       Banding     Fileee, Foil       Filler     ye8       wire arrangement     white, yellow, blue, orange       Cable weigth     89,1 g/m       Material jacket     PUR       Shore hardness jacket     90 ± Shore A       Freedom from ingredients (jacket)     12 % / mm       Tolerance outer diameter (sheath)     ± 5 %       Color (inner jacket)     74 mm       Color (inner jacket)     PE-V       Color (inner jacket)     95 %       Shore D     Insulation     File       Ingradient file file wire insulation     1.4 mm       Outer diameter insulation     1.4 mm       Outer diameter insulation     1.4 mm       Outer diameter insulation <td>nitv</td> <td></td>	nitv	
Installation   Cable       Cable identification     659       Jacket Color     green       Type of Cortificate     cURus       Amount stranding     1       Stranding     4 wires around Core filler twisted       Cable shielding (type)     copper braid, tinned       Cable shielding (coverage)     85 %       Banding     Fleece, Foil       Filler     yes       wire arrangement     white, yellow, blue, orange       Cable weight     89,1 g/m       Material jacket     PUR       Shore hardness jacket     90 ± Shore A       Freedom from fingredients (jacket)     Iead-free, CFC-free, halogen-free       Outer-diameter (jacket)     7,4 mm       Tolerance outer diameter (sheatth)     1 5 %       Material inner jacket     TPE-V       Color (innor jacket)     white       Material wire insulation     FE       Amount wires     4       Outer diameter (sheatth)     1.5 %       Shore hardness wire insulation     FE       Amount wires     4       Outer diameter insulation     1.4 mm	-	DIN EN 61076-2-101 (M12)
Cable identification659Jacket ColorgreenType of CertificatecURusAmount stranding1Stranding4 wires around Core filler twistedCable shielding (type)copper braid, tinnedCable shielding (type)copper braid, tinnedCable shielding (coverage)85 %BandingFilecce, FoilFilleryeswire arrangementwhite, yellow, blue, orangeCable weigth89,1 g/mMaterial jacket90 ± Shore AFreedom from ingredients (jacket)19.4 fore, CFC-free, halogen-freeOuter-diameter (jacket)7,4 mmTolerance outer diameter (sheath)± 5 %Material janketPEAmount wires4Outer diameter folgenom± 5 %Shore hardness wire insulation£ Shore DIngredient folgenom1,4 mmOuter diameter tolerance oure insulation± 5 %Shore D1,4 mmOuter diameter tolerance core insulation± 5 %Shore D1Ingredient freences wire insulation65 Shore DIngredient freences wire insulation1.4 mmOuter diameter of single wires22 AWGConductor consection (wire)22 AWGConductor consection (wire)22 AWGMaterial onductor wireStranded copper wire, bareTraversing distance (C-track)5 mNominal voltage AC max.60 VCurrent tolac capacity (min, wire4.8 A		
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Type of CertificateCURusAmount stranding1Stranding4 wires around Core filler twistedCable shielding (type)copper braid, tinnedCable shielding (type)85 %BandingFleece, FoilFilleryeswrier arrangementwhite, yellow, blue, orangeCable weigth89,1 g/mMaterial jacketPURShore hardness jacket90 ± Shore AFreedom from ingredients (jacket)lead-free, CFC-free, halogen-freeOuter-diameter (jacket)7.4 mmTolerance outer diameter (sheath)± 5 %Material inner jacketTPE-VColor (inner jacket)whiteMaterial wire insulationPEAmount wires4Outer diameter insulation1.4 mmOuter diameter insulation1.5 %Shore hardness wire insulation65 Shore DIngredient freeness wire insulation65 Shore DIngredient freeness wire insulation22 AWGCondructor crossection (wire)22 AWGMaterial vires22 AWGMaterial vires22 AWGMaterial vires5 mNominal voltage AC max.60 VCourrent load capacity (wind, wire)5 mNominal voltage AC max.60 VCurrent load capacity min. wire4,8 A		659
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Banding Fleece, Foil   Filler yes   wire arrangement white, yellow, blue, orange   Cable weigth 89,1 g/m   Material jacket PUR   Shore hardness jacket 90 ± Shore A   Freedom from ingredients (jacket) lead-free, CFC-free, halogen-free   Outer-diameter (jacket) 7,4 mm   Tolerance outer diameter (sheath) ± 5 %   Material inner jacket TPE-V   Color (inner jacket) white   Material vire insulation PE   Amount wires 4   Outer diameter tolerance core insulation ± 5 %   Shore hardness wire insulation 65 Shore D   Ingredient freeness wire insulation 22 AWG   Conductor orossection (wire) 22 AWG   Material wires 24 AWG   Material conductor wire Stranded copper wire, bare   Traversing distance (C-track) 5 m   Nominal voltage AC max. 60 V   Current load capacity (standard) to DIN VDE 0298-4   Current load capacity min. wire 4,8 A	elding (type)	copper braid, tinned
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Freedom from ingredients (jacket)lead-free, CFC-free, halogen-freeOuter-diameter (jacket)7,4 mmTolerance outer diameter (sheath)± 5 %Material inner jacketTPE-VColor (inner jacket)whiteMaterial wire insulationPEAmount wires4Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation± 5 %Shore hardness wire insulation65 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor crosssection (wire)22 AWGMaterial conductor wireStranded copper wire, bareTraversing distance (C-track)5 mNominal voltage AC max.60 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,8 A	acket	PUR
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Material conductor wire Stranded copper wire, bare   Traversing distance (C-track) 5 m   Nominal voltage AC max. 60 V   Current load capacity (standard) to DIN VDE 0298-4   Current load capacity min. wire 4,8 A		
Traversing distance (C-track)5 mNominal voltage AC max.60 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,8 A	(	
Nominal voltage AC max.60 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,8 A		
Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,8 A		
Current load capacity min. wire 4,8 A		
Characteristic impedance $100 \Omega \pm 15 \%$		4,6 A 100 Ω ± 15 %
Electrical resistance line constant wire $55 \Omega/\text{km} @ 20 ^{\circ}\text{C}$	•	
AC withstand voltage (wire - wire) 2 kV @ 60 s		
Electrical capacity line constant (wire - wire) 50000 pF/km		-
Power frequency withstand voltage (wire -		· · · · · · · · · · · · · · · · · · ·
jacket)		_
AC withstand voltage (wire - shield) 2 kV @ 60 s		
Loop resistance 5000 MΩ × km		
Min. operating temperature (static) -40 °C	ating temperature (static)	-40 °C
Max. operating temperature (fixed) 80 °C	rating temperature (fixed)	0° 08
Operating temperature min. (dynamic) -30 °C	temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic) 70 °C	temperature max. (dynamic)	70 °C

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Flame resistance	UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	12 x Outer diameter
Travel speed (C-track)	2 Mio.

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