

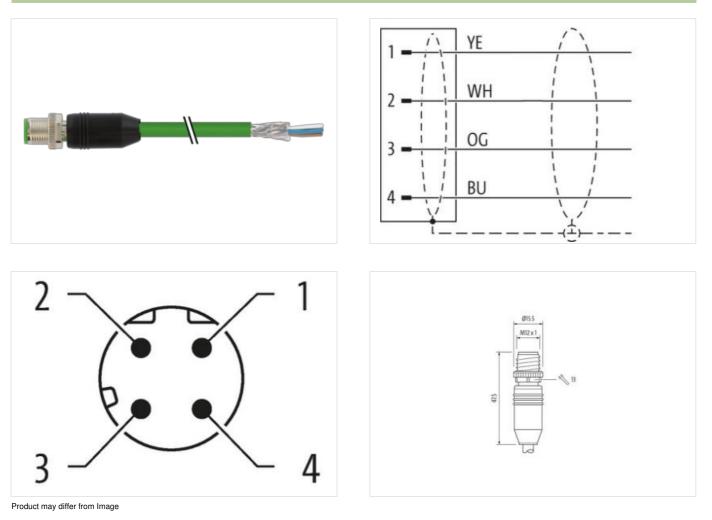
M12 male 0° D-cod. with cable shielded

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 11m

Product fulfills requirements according to UN/ECE R118 Ethernet CAT5 Transmission properties with channel transmission up to 100 m Male straight 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: 2024-05-12



Cable length	11 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	EC002599	
customs tariff number	85444290	
GTIN	4048879545211	
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 func	tionality	
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)		
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	

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Loop resistance $5000 \text{ M}\Omega \times \text{km}$ Nominal voltage AC max. 300 V Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire $4,8 \text{ A}$ Characteristic impedance $100 \Omega \pm 15 \% @ 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega/\text{km} @ 20 °C$ AC withstand voltage (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) 50000 pF/km Power frequency withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Min. operating temperature (static) $-40 °C$	Operating temperature max.	85 °C
Note on sharin relial Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ises. Note on bending redus Extension: Colserve the permissible bending redus when laying cables, as the IP protection class can be endergreed by excessive bonding loces. Product itaradia Description of the permissible bending radii when laying cables, as the IP protection class can be endergreed by excessive bonding loces. Product itaradia Description of the permissible bending radii when laying cables, as the IP protection class can be endergreed by excessive bonding loces. Product itaradia Description of the permissible bending radii when laying cables, as the IP protection class can be endergreed by excessive bonding loces. Standing Description of the permissible bending radii when laying cables, as the IP protection class can be endergreed by excessive bonding loces. Standing Open Frail Description of the permissible bending radii when laying cables, as the IP protection class can be endergreed by excessive bonding loces. Standing Open Frail Description of the permissible bonding loces. Standing Protect the association of the permissible bonding loces. Description of the permissible bonding loces. Standing Open Frail Description of the permissible bonding loces. Description of the permissible bonding loces. Standit frain permissible bonding loces.	Additional condition temperature range	depending on cable quality
Ante on bending radius Attention: Chever the permissible bending radii when laying cables, as the IP protection class can be endangered by axxessive bending forces. Contornity Product Standard DN EN 61076-2-101 (M12) Installation I Cable Cable identification 786 Jackot Color grown Typo of Conflication Culle identification Amount stranding 1 Stranding 4 wites around Core Iller Iwisted Cable shelding (coverage) 85 % Banding Fileson Componential (Cable Stranding (Coverage) Binding (coverage) 85 % Banding Fileson Score File Filer yes Score File Wite argement wite yellow, blue, orange Miter yellow, blue, orange Traversing distance (Crack) Sm @ 25 °C Conflexonding Colde weigh G. 37 °C Conflexonding Colder distander (abend) S % Score A Traversing distants (abend) File S % Banding Score A Score A Traversing distantes (abend) S % Score A	Important installation notes	
Ante on bending radius Attention: Chever the permissible bending radii when laying cables, as the IP protection class can be endangered by axxessive bending forces. Contornity Product Standard DN EN 61076-2-101 (M12) Installation I Cable Cable identification 786 Jackot Color grown Typo of Conflication Culle identification Amount stranding 1 Stranding 4 wites around Core Iller Iwisted Cable shelding (coverage) 85 % Banding Fileson Componential (Cable Stranding (Coverage) Binding (coverage) 85 % Banding Fileson Score File Filer yes Score File Wite argement wite yellow, blue, orange Miter yellow, blue, orange Traversing distance (Crack) Sm @ 25 °C Conflexonding Colde weigh G. 37 °C Conflexonding Colder distander (abend) S % Score A Traversing distants (abend) File S % Banding Score A Score A Traversing distantes (abend) S % Score A	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Product standard DIN EN 61076-2-101 (M12) Installication Cable Cable identification 796 Cable identification Gamma installication Open Carificate UPINs Anount stranding I Stranding even saround Core filler twisted Cable shieling (type) coppor brail. timed Cable wing the arrangement white. yellow, blue, orange Traversing distance (C-track) S m @ 25 °C Cable wing the arrangement edd-free, cadmum-free, CFC-free, halogn-free, silcone-free Traversing distance (type) 33 m% g 25 °C Cable rading sized (Topola) 13 Arm Stranding Cable rading sized (Topola) 13 Arm Stranding Cable rading trainsized (type) 7 7 Cable rading trainsized (type) 7 7	Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
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Another 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, bareLoop resistance5000 M $\Omega \times km$ Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 ACharacteristic impedance100 $\Omega \pm 15 \% @ 100$ MHzElectrical resistance line constant wire55 $\Omega/km @ 20 °C$ AC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMaterial constant wire - shield)2 kV @ 60 s		
Ingredient freeness wire insulationlead-free, CFC-free, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor crosssection (wire)22 AWGMaterial conductor wireStranded copper wire, bareLoop resistance5000 M $\Omega \times km$ Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 ACharacteristic impedance100 $\Omega \pm 15 \% @ 100$ MHzElectrical resistance line constant wire55 $\Omega/km @ 20 °C$ AC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °C	Outer diameter tolerance core insulation	±5%
Amount strands (wire)7Diameter of single wires22 AWGConductor crosssection (wire)22 AWGMaterial conductor wireStranded copper wire, bareLoop resistance5000 MQ × kmNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 ACharacteristic impedance100 $\Omega \pm 15 \% @ 100$ MHzElectrical resistance line constant wire55 $\Omega/km @ 20 °C$ AC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMarce frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMarce frequency withstand voltage (wire - jacket)-40 °C	Shore hardness wire insulation	65 Shore D
Diameter of single wires22 AWGConductor crosssection (wire)22 AWGMaterial conductor wireStranded copper wire, bareLoop resistance5000 M $\Omega \times km$ Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 ACharacteristic impedance100 $\Omega \pm 15 \% @ 100$ MHzElectrical resistance line constant wire55 $\Omega/km @ 20 \ ^{\circ}C$ AC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 s	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Conductor crosssection (wire)22 AWGMaterial conductor wireStranded copper wire, bareLoop resistance $5000 M\Omega \times km$ Nominal voltage AC max. $300 V$ Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire $4,8 A$ Characteristic impedance $100 \Omega \pm 15 \% @ 100 MHz$ Electrical resistance line constant wire $55 \Omega/km @ 20 °C$ AC withstand voltage (wire - wire) $2 kV @ 60 s$ Electrical capacity line constant (wire - wire) $50000 pF/km$ Power frequency withstand voltage (wire - shield) $2 kV @ 60 s$ AC withstand voltage (wire - shield) $2 kV @ 60 s$ Material capacity (static) $-40 °C$	Amount strands (wire)	7
Material conductor wireStranded copper wire, bareLoop resistance $5000 \text{ M}\Omega \times \text{km}$ Nominal voltage AC max. 300 V Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire $4,8 \text{ A}$ Characteristic impedance $100 \Omega \pm 15 \% @ 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega/\text{km} @ 20 \ ^\circ\text{C}$ AC withstand voltage (wire - wire) $2 \text{ kV } @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) 50000 pF/km Power frequency withstand voltage (wire - jacket) $2 \text{ kV } @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV } @ 60 \text{ s}$ Min. operating temperature (static) $-40 \ ^\circ\text{C}$	Diameter of single wires	22 AWG
Loop resistance $5000 \text{ M}\Omega \times \text{km}$ Nominal voltage AC max. 300 V Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire $4,8 \text{ A}$ Characteristic impedance $100 \Omega \pm 15 \% @ 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega/\text{km} @ 20 °C$ AC withstand voltage (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) 50000 pF/km Power frequency withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Min. operating temperature (static) $-40 °C$	Conductor crosssection (wire)	22 AWG
Nominal voltage AC max. $300 V$ Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire $4,8 A$ Characteristic impedance $100 \Omega \pm 15 \% @ 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega/\text{km} @ 20 °C$ AC withstand voltage (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) 50000 pF/km Power frequency withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,8 ACharacteristic impedance100 Ω ± 15 % @ 100 MHzElectrical resistance line constant wire55 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 s	Loop resistance	5000 MΩ × km
Current load capacity min. wire4,8 ACharacteristic impedance $100 \Omega \pm 15 \% @ 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega/\text{km} @ 20 °C$ AC withstand voltage (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) 50000 pF/km Power frequency withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Min. operating temperature (static)-40 °C	Nominal voltage AC max.	300 V
Characteristic impedance $100 \Omega \pm 15 \% @ 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega/\text{km} @ 20 °C$ AC withstand voltage (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) 50000 pF/km Power frequency withstand voltage (wire - jacket) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Min. operating temperature (static)-40 °C	Current load capacity (standard)	to DIN VDE 0298-4
Electrical resistance line constant wire 55 Ω/km @ 20 °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) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C	Current load capacity min. wire	4,8 A
AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical capacity line constant (wire - wire) 50000 pF/km Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C	Characteristic impedance	100 Ω ± 15 % @ 100 MHz
Electrical capacity line constant (wire - wire) 50000 pF/km Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C	Electrical resistance line constant wire	55 Ω/km @ 20 °C
Power frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °C	AC withstand voltage (wire - wire)	2 kV @ 60 s
jacket) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C	Electrical capacity line constant (wire - wire)	50000 pF/km
Min. operating temperature (static) -40 °C		2 kV @ 60 s
	AC withstand voltage (wire - shield)	2 kV @ 60 s
		-40 °C
	Max. operating temperature (fixed)	

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Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	70 °C
Flame resistance	IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2
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
No. of torsion cycles	1 Mio. 25 °C
Torsion stress	± 180 °/m

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