

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

PUR 1x4xAWG22 shielded gn UL/CSA 30m

**Ethernet CAT5** 

Transmission properties with channel transmission up to 100 m

Male straight

M12, 4-pole

D-coded

shielded

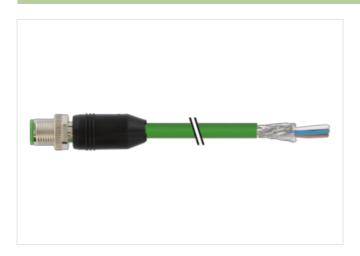
Further cable lengths on request.

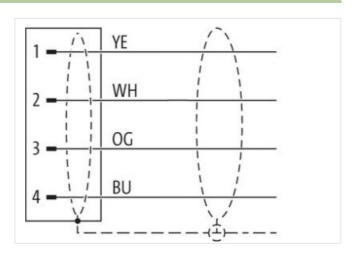
Plastic housings with good resistance against chemicals and oils.

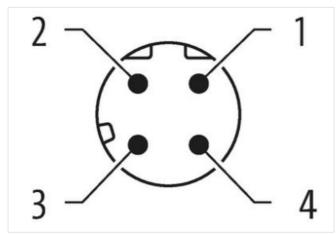
The resistance to aggressive media should be individually tested for your application. Further details on request.

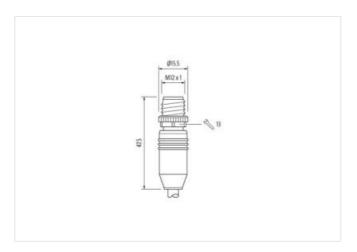
## **Link to Product**

## Illustration









Product may differ from Image











Cable length

30 m



stay connected

	Side 1	
amily consideration form M12 x 1 coding D D Identified M12 x 1 coding D D Identified M12 x 1 Identified PUR Ide	Tightening torque	·
Metabolish		· · · · · · · · · · · · · · · · · · ·
Description		
Marchan   Marc	Thread	
Width across field         SW13           loggree of prizection (EN IEC 60528)         IPS6, IP66K, IP67           ColLASS -6.0         27061801           CCLASS -6.1         27060907           CCLASS -7.0         27060907           CCLASS -8.0         27060907           CCLASS -8.0         27060907           CCLASS -1.1         27060907           CCLASS -1.2.0         27060907           CCLASS -1.1         4048879469913           TSTN         4048879469913           TSTN         4048879469913           TSTN         4048879469913           TSTN         4049879469913           TSTN         4049879469913           TSTN         4049879469913           TSTN         4049879469913           TSTN         4049879469913           TSTN         4049879469913 <t< td=""><td>Coding</td><td></td></t<>	Coding	
Pegre of protection (EN IEC 60829)   IP68, IP66K, IP67		
Commercial data         CLASS-6.0         27061801           CLASS-6.1         27060307           CLASS-7.0         27060307           CLASS-8.0         27060307           CLASS-9.0         27060307           CLASS-10.1         27060307           CLASS-10.1         27060307           CLASS-11.1         27060307           CLASS-12.0         27060307           CLASS-12.1         27060307           TIMS-5.0         E0002599           Usebons tariff number         85444290           TIM No.0         4086793469913           20-Acading unit         1           Electrical data   Supply         Very Properating voltage DC max.           Speciating voltage DC max.         80 V           Demand portained per contact max.         1,5 A           Industrial communication         1,5 A           Industrial communication   Electrical study         1,5 KV           Industrial proper voltage   1,5 kV         1,5 kV           Industrial proper   1,5 kV         1,5 kV		
CCLASS 6.0   27061801		IP65, IP66K, IP67
CLASS 6.1   27060307   27060307   CLASS 7.0   27060307   CLASS 7.0   27060307   CLASS 8.0   27060307   CLASS 8.0   27060307   CLASS 1.1   27060307   CLASS 1.1   27060307   CLASS 1.1   27060307   CLASS 1.1   27060307   CLASS 1.2	Commercial data	
CLASS-7.0   27060907   CLASS-8.0   27060907   CLASS-9.0   27060907   CLASS-9.0   27060907   CLASS-10.1   27060907   CLASS-11.1   27060907   CLASS-11.1   27060907   CLASS-12.0   27060907   CLASS-12.0   27060907   CLASS-12.0   CLASS-12.0   CLASS-12.0   CLASS-13.1   CLASS-13.0   CLASS-14.0   CLASS-13.0   CLASS-14.0   CLASS-14.0   CLASS-14.0   CLASS-14.0   CLASS-14.0   CLASS-14.0   CLASS-15.0	ECLASS-6.0	27061801
CLASS 8.0   27060307   CLASS 9.0   27060307   CLASS 9.0   27060307   CLASS 11.1   CLASS 9.0   CLASS	ECLASS-6.1	27060307
CLASS-9.0   27060307   CLASS-10.1   27060307   CLASS-10.1   27060307   CLASS-11.1   27060307   CLASS-11.2   27060307   CLASS-12.0   27060307   CLASS-12.0   CLA	ECLASS-7.0	27060307
CLASS-10.1   27060307   27060307   27060307   27060307   27060307   27060307   27060307   27060307   27060307   27060307   27060307   27060307   27060307   27060307   27060307   27060307   27060307   27060307   27060307   27070	ECLASS-8.0	27060307
CLASS-11.1   27060307   CLASS-12.0   27060307   CLASS-12.0   27060307   CLASS-12.0   27060307   CLASS-12.0   27060307   CLASS-12.0   CLASS-12.0   CLASS-12.0   CLASS-12.0   CLASS-12.0   CLASS-12.0   CLASS-12.0   CLASS-12.0   CLASS-13.0	ECLASS-9.0	
ETIM-5.0   EC002599	ECLASS-10.1	
ETIM-S.0 EC002599 ustoms tariff number 85444290 37TIN 404879459913 2ackaging unit 1  Electrical data   Supply Operating voltage DC max. 60 V Departing voltage DC max. 1,5 A Industrial communication Transfer parameters CATS, Class D (ISO/IEC 11801:2002), (EN 50173-1) Data transmission rate max. 100 MBit/s Industrial communication   Ethernet functionality Uplex Full duplex Industrial communication Industrial Communica	ECLASS-11.1	
ustoms tariff number 85444290  atrin 4048879469913  fackaging unit 1  fackaging unit 1  fackaging voltage DC max. 60 V  forment operating voltage DC max. 1,5 A  industrial communication  fransfer parameters CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)  ata transmission rate max. 100 MBit/s  industrial communication   Ethernet functionality  uplex Full duplex  installation   Connection  foounting set M12 x 1  Device protection   Electrical  diditional condition protection degree inserted, screwed  foolution Degree 3  facta surge voltage 1,5 kV  faterial group (IEC 50664-1) 1  Mechanical data   Material data  Contour for corrupated hose without  Mechanical data   Material data  Cooling of fitting nickel plated  coating of fitting nickel plated  coating of fitting nickel plated  footing material   Zinc die-casting  Mechanical data   Mounting data  footnuting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Deparating temperature min25 °C  Deparating temperature max. 85444290  atting voltage maperature max. 85444290  ACT   Cales of Ca	ECLASS-12.0	
Add	ETIM-5.0	
Electrical data   Supply  Operating voltage DC max. 60 V  Current operating per contact max. 1,5 A  Industrial communication  Transfer parameters CATS, Class D (ISO/IEC 11801:2002), (EN 50173-1)  Otala transmission rate max. 100 MBit/s  Industrial communication   Ethernet functionality  Luplex Full duplex  Installation   Connection  Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Volution Degree 3  Alated surge voltage 1,5 kV  Attactical group (IEC 60664-1) 1  Mochanical data  Volution Corrugated hose without  Mochanical data   Material data  Voluting of litting nickel plated  Ooking material   Zinc die-casting    Mochanical data   Mounting data  Mochanical characteristics   Climatic  Deparating temperature min25 °C  Operating temperature max. 85 °C	customs tariff number	
Electrical data   Supply  Operating voltage DC max. 60 V  Fourent operating per contact max. 1,5 A  Industrial communication  Transfer parameters CATS, Class D (ISO/IEC 11801:2002), (EN 50173-1)  Transfer parameters Pull duplex  Industrial communication   Ethernet functionality  Implex Full duplex  Installation   Connection  Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Follution Degree 3  Asterda surge voltage 1,5 kV  Asterial group (IEC 60664-1) 1  Mechanical data   Material data  Fontour for corrugated hose without  Mechanical data   Material data  Footion of fitting nickel plated  Footing of fitting nickel plated  Footing and fitting nickel plated  Footing material   Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic	GTIN	
Sperating voltage DC max. 60 V Forment operating per contact max. 1,5 A Forment operating per contact max. 100 MBit/s Formaler parameters CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1) Formaler parameters Pull duplex Formaler parameters Full duplex Formaler protection   Electrical Formaler protection   Electric	Packaging unit	1
Industrial communication  Transfer parameters CATS, Class D (ISO/IEC 11801:2002), (EN 50173-1)  Ata transmission rate max. 100 MBit/s  Industrial communication   Ethernet functionality  Uplex Full duplex  Installation   Connection  Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Vollution Degree 3  Ata date surge voltage 1,5 kV  Atalerial group (IEC 60664-1) I  Mechanical data  Worth of corrugated hose without  Mechanical data   Material data  Volting of lifting nickel plated  ooking material crew connection   Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Deparating lemperature min. 25 °C  pperating lemperature max.	Electrical data   Supply	
Industrial communication Final parameters CATS, Class D (ISO/IEC 11801:2002), (EN 50173-1) Para transmission rate max. 100 MBit/s Industrial communication   Ethernet functionality  Tuplex Full duplex Full duplex Installation   Connection  Nounting set M12 x 1  Device protection   Electrical  Violition Degree Installation   Connection  Nounting set Installation   Connection  Nounting nounting installation   Connection  Nounting nounting data   Material data   Material data   Material data   Material screw connection  Nounting method  Inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Deparating temperature min.  25 ° C  Poperating temperature max.	Operating voltage DC max.	60 V
ransfer parameters CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)  Para transmission rate max. 100 MBit/s  Industrial communication   Ethernet functionality  Uplex 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  Additional group (IEC 60664-1) I  Mechanical data  Pontour for corrugated hose without  Mechanical data   Material data  Pontour for corrugated hose without  Mechanical data   Material data  Pontour for indice   Mickel plated  Pontour for fitting nickel plated  Pontour for fitting nickel plated  Pontour for fitting nickel plated  Pontour for material   Zinc die-casting  Material screw connection   Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Poperating temperature min25 °C  Poperating temperature max25 °C	Current operating per contact max.	1,5 A
Adat transmission rate max. 100 MBit/s Industrial communication   Ethernet functionality  uplex 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  Adaterial group (IEC 60664-1) I  Mechanical data  Pontour for corrugated hose without  Mechanical data   Material data  Pontour for corrugated inserted inserted, screwed  Pontour for forting in fitting incikel plated  Pontour for fitting in	Industrial communication	
Adat transmission rate max. 100 MBit/s Industrial communication   Ethernet functionality  uplex 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  Adaterial group (IEC 60664-1) I  Mechanical data  Pontour for corrugated hose without  Mechanical data   Material data  Pontour for corrugated inserted inserted, screwed  Pontour for forting in fitting incikel plated  Pontour for fitting in	Transfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)
ruplex Full duplex Installation   Connection  Mounting set M12 x 1  Device protection   Electrical  diditional condition protection degree inserted, screwed  Poblition 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  Contour for corrugated inserted, screwed  Contour for corrugated inserted, screwed  Contour for corrugated hose without  Mechanical data   Material data  Conting locking Nickeled  Conting locking nickel plated  Conting anterial Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Deparating temperature min25 °C  Operating temperature max.	Data transmission rate max.	
ruplex Full duplex Installation   Connection  Mounting set M12 x 1  Device protection   Electrical  diditional condition protection degree inserted, screwed  Poblition 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  Contour for corrugated inserted, screwed  Contour for corrugated inserted, screwed  Contour for corrugated hose without  Mechanical data   Material data  Conting locking Nickeled  Conting locking nickel plated  Conting anterial Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Deparating temperature min25 °C  Operating temperature max.	Industrial communication   Ethernet fun	ctionality
Installation   Connection  Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Paled surge voltage 1,5 kV  Material group (IEC 60664-1) I  Mechanical data  Contour for corrugated hose without  Mechanical data   Material data  Conting locking Nickeled  Coating locking nickel plated  Coating of fitting nickel plated  Coating afferial screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature max.  85 °C	•	2
Mounting set M12 x 1  Device protection   Electrical  additional condition protection degree inserted, screwed  follution Degree 3  Nated surge voltage 1,5 kV  Material group (IEC 60664-1) I  Mechanical data  Contour for corrugated hose without  Mechanical data   Material data  Conting locking Nickeled  coating of fitting nickel plated  cooking 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 min25 °C  Operating temperature max.	<u> </u>	
Device protection   Electrical  additional condition protection degree inserted, screwed  follution Degree 3  Sated surge voltage 1,5 kV  Material group (IEC 60664-1) I  Mechanical data Contour for corrugated hose without  Mechanical data   Material data  Soating locking Nickeled  Soating of fitting nickel plated  Soating affectial screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Sperating temperature min25 °C  Sperating temperature max. 85 °C	•	M404
inserted, screwed  follution Degree 3  Rated surge voltage 1,5 kV  Alaterial group (IEC 60664-1) I  Mechanical data  Contour for corrugated hose without  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Coating screwed onection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Deparating temperature min25 °C  Sperating temperature max. 85 °C		M12 X I
Asted 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  Coating afterial screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max.	Device protection   Electrical	
Asterial group (IEC 60664-1)  Mechanical data  Contour for corrugated hose without  Mechanical data   Material data  Coating locking Nickeled  Coating locking nickel plated  Coating material  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min.  -25 °C  Sperating temperature max.	Additional condition protection degree	inserted, screwed
Material group (IEC 60664-1)  Mechanical data Contour for corrugated hose without  Mechanical data   Material data Coating locking Nickeled Coating of fitting nickel plated Cocking material Coating atterial screw connection  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic Coperating temperature min.  -25 °C	Pollution Degree	
Mechanical data Contour for corrugated hose without  Mechanical data   Material data Conting locking Nickeled Conting of fitting nickel plated Conting and terrial Zinc die-casting Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max.	Rated surge voltage	1,5 kV
Mechanical data   Material data Coating locking Nickeled Coating of fitting nickel plated Coating 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 min25 °C  Operating temperature max.	Material group (IEC 60664-1)	
Mechanical data   Material data Coating locking Coating of fitting Coating of fitting Coating of fitting Coating of fitting Coating material Coating of fitting Coating material Coating of fitting Coating material Coating materi	Mechanical data	
Coating locking  Coating of fitting  nickel plated  ocking 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.	Contour for corrugated hose	without
Coating of fitting nickel plated Cocking 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 min25 °C  Operating temperature max. 85 °C	Mechanical data   Material data	
Coating of fitting nickel plated Cocking 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 min25 °C  Operating temperature max. 85 °C	Coating locking	Nickeled
Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Coating of fitting	nickel plated
Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Locking material	Zinc die-casting
Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Material screw connection	Zinc die-casting
Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Mechanical data   Mounting data	
Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Mounting method	inserted, screwed, Shaking protection
Operating temperature min25 °C Operating temperature max. 85 °C		<del>-</del>
Operating temperature max.  85 °C	•	
perating temperature max.		
additional condition temperature range depending on cable quality		
	Additional condition temperature range	depending on cable quality

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: 2024-05-15



stay connected

Important installation notes	
lote on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
lote on bending radius	<b>Attention:</b> 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)
Installation   Cable	
	704
Cable identification	794
acket Color	green
ype of Certificate	cURus
amount stranding	1
Stranding	4 wires around Filler twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Banding	Fleece, Foil
iller	yes
vire arrangement	white, yellow, blue, orange
Cable weigth	75,87 g/m
Material jacket	PUR
Shore hardness jacket	89 Shore A
reedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	6,7 mm
olerance outer diameter (sheath)	±5%
Naterial inner jacket	FRNC
Color (inner jacket)	white
Material wire insulation	PE
mount wires	4
Outer diameter insulation	1,55 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	65 Shore D
ngredient freeness wire insulation	lead-free, CFC-free, halogen-free
amount strands (wire)	7
Diameter of single wires	22 AWG
Conductor crosssection (wire)	22 AWG
Material conductor wire	Stranded copper wire, bare
Iominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,8 A
Characteristic impedance	100 Ω ± 15 %
Electrical resistance line constant wire	55 Ω/km @ 20 °C
C withstand voltage (wire - wire)	2 kV @ 60 s
Electrical capacity line constant (wire - wire)	52000 pF/km
Power frequency withstand voltage (wire - acket)	2 kV @ 60 s
C withstand voltage (wire - shield)	2 kV @ 60 s
/in. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	70 °C
lame resistance	UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2
hemical resistance	Good, application-related testing
Sasoline resistance	Good, application-related testing
Dil resistance	Good, application-related testing  Good, application-related testing   DIN EN 60811-404
an resistance	4000, application related testing   Dira Era 6001 1-404



Bending radius (dynamic)

12 x Outer diameter