

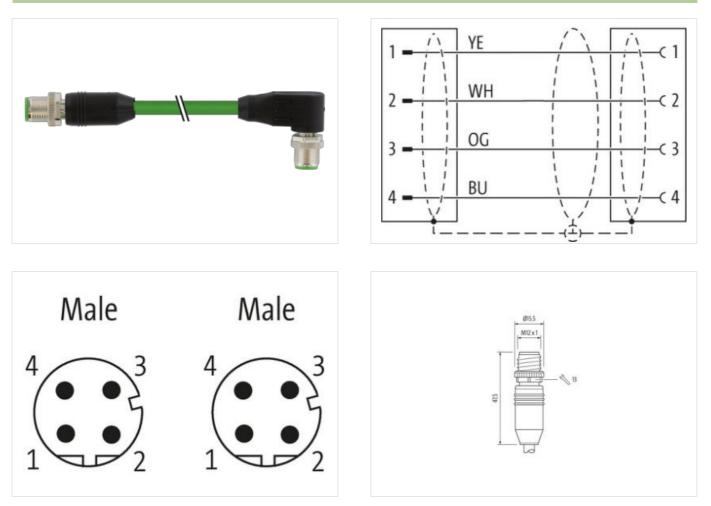
## M12 male 0° / M12 male 90° D-cod. shielded

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 0.5m

Product fulfills requirements according to UN/ECE R118 Ethernet CAT5 Male 90° – male straight M12 – M12, 4-pole D-coded shielded Transmission properties with channel transmission up to 100 m 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.

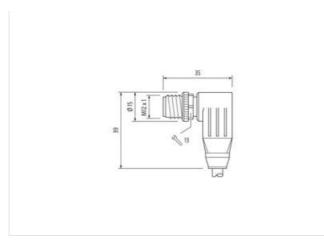
## Link to Product

Illustration



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Product may differ from Image



## PROFI NET

Cable length         0,5 m           Side 1         1           Tightening torque         0,6 Nm           Family construction form         M12           Thread         M12 x 1           Coding         D           Material         PUR           Width across flats         SW13           Side 2			
Taphtening torque         0.6 Nm           Family construction form         M12           Thread         M12 x 1           Coding         D           Material         PUR           Width across flats         SW13           Side 2	Cable length	0,5 m	
Family construction form         M12           Thread         M12 x 1           Coding         D           Material         PUR           Widt across flats         SW13           Side 2	Side 1		
Thread         M12 x 1           Coding         D           Material         PUR           Width across flats         SW13           Side 2            Tightening torque         0.6 Nm           Family construction form         M12           M12         1           Coding         D           Material         PUR           Coding         D           Material         PUR           ECLASS-6.0         27061801           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-1.1         27060307           ECLASS-1.2         27060307           ECLASS-1.1         27060307	Tightening torque	0,6 Nm	
Coding         D           Material         PUR           Width across flats         SW13           Side 2	Family construction form	M12	
Material         PUR           Width across flats         SW13           Side 2	Thread	M12 x 1	
Width across flats         SW13           Side 2	Coding	D	
Side 2           Tightening torque         0.6 Nm           Family construction form         M12           Thread         M12 x 1           Coding         D           Material         PUR           Commercial data         27061801           ECLASS-6.0         27060307           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-9.0         27060307           ECLASS-9.0         27060307           ECLASS-9.0         27060307           ECLASS-9.0         27060307           ECLASS-1.1         27060307           ECLASS-1.5         27060307           ECLASS-1.1         27060307           ECIASS-1.1         27060307           ETIM-5.0         EC002599           customs tariff number         85444290           GTIN         4048879141178           Packa	Material	PUR	
Tightening torque         0,6 Nm           Family construction form         M12           Thread         M12 x 1           Coding         D           Material         PUR           Commercial data         27061801           ECLASS-6.0         27061801           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-9.0         27060307           ECLASS-1.1         27060307           ECLASS-1.2         27060307           ECLASS-1.1         27060307           ECLASS-1.2.0         27060307           ETIM-5.0         EC002599           customs tariff number         8544290           GTIN         4048879141178           Packaging unit         1	Width across flats	SW13	
Family construction form         M12           Thread         M12 x 1           Coding         D           Material         PUR           Commercial data         ECLASS-6.0           ECLASS-6.1         27061801           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-9.0         27060307           ECLASS-1.1         27060307           ECLASS-1.2         27060307           ECLASS-9.0         27060307           ECLASS-1.1         27060307 <tr< td=""><td>Side 2</td><td></td><td></td></tr<>	Side 2		
Thread         M12 x 1           Coding         D           Material         PUR           Commercial data           ECLASS-6.0         27061801           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-9.0         27060307           ECLASS-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ETIM-5.0         EC002599           customs tariff number         85444290           GTIN         4048879141178           Packaging unit         1	Tightening torque	0,6 Nm	
Coding         D           Material         PUR           Commercial data         ECLASS-6.0           ECLASS-6.0         27061801           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-9.0         27060307           ECLASS-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECIASS-12.0         27060307           ECIASS-12.0         27060307           ECIASS-12.0         27060307           ECIASS-12.0         27060307           ECIASS-12.0         27060307           ECIASS-12.0         27060307           ECIMS-5.0         EC002599           Customs tariff number         85444290           GTIN         4048879141178           Packaging unit         1	Family construction form	M12	
Material         PUR           Commercial data         ECLASS-6.0         27061801           ECLASS-6.1         27060307         ECLASS-7.0         27060307           ECLASS-8.0         27060307         ECLASS-9.0         27060307           ECLASS-9.0         27060307         ECLASS-10.1         27060307           ECLASS-10.1         27060307         ECLASS-10.1         27060307           ECLASS-11.1         27060307         ECLASS-11.1         27060307           ECLASS-12.0         27060307         ECLASS-12.0         EC002599           customs tariff number         85444290         ECI002599         ECIASMERTIFINANT           Packaging unit         1         1         ECIASMERTIFICANT         ECIASMERTIFICANT	Thread	M12 x 1	
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-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ETIM-5.0         EC002599           customs tariff number         85444290           GTIN         4048879141178           Packaging unit         1	Coding	D	
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-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ETIM-5.0         EC002599           customs tariff number         85444290           GTIN         4048879141178           Packaging unit         1	Material	PUR	
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       4048879141178         Packaging unit       1	Commercial data		
ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECIASS-12.0         40002599           Customs tariff number         85444290           GTIN         4048879141178           Packaging unit         1	ECLASS-6.0	27061801	
ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECIASS-12.0         27060307           ETIM-5.0         EC002599           customs tariff number         85444290           GTIN         4048879141178           Packaging unit         1	ECLASS-6.1	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         4048879141178           Packaging unit         1	ECLASS-7.0	27060307	
ECLASS-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ETIM-5.0         EC002599           customs tariff number         85444290           GTIN         4048879141178           Packaging unit         1	ECLASS-8.0	27060307	
ECLASS-11.1       27060307         ECLASS-12.0       27060307         ETIM-5.0       EC002599         customs tariff number       85444290         GTIN       4048879141178         Packaging unit       1	ECLASS-9.0	27060307	
ECLASS-12.0         27060307           ETIM-5.0         EC002599           customs tariff number         85444290           GTIN         4048879141178           Packaging unit         1	ECLASS-10.1	27060307	
ETIM-5.0         EC002599           customs tariff number         8544290           GTIN         4048879141178           Packaging unit         1	ECLASS-11.1	27060307	
customs tariff number85444290GTIN4048879141178Packaging unit1	ECLASS-12.0	27060307	
GTIN         4048879141178           Packaging unit         1	ETIM-5.0	EC002599	
Packaging unit 1	customs tariff number	85444290	
	GTIN	4048879141178	
Electrical data   Supply	Packaging unit	1	
	Electrical data   Supply		

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Operating voltage DC max.	60 V
Current operating per contact max.	1,5 A
Industrial communication	
ransfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)
Data transmission rate max.	100 MBit/s
Industrial communication   Ethernet fund	stionality
duplex	Full duplex
•	
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP65, IP67, IP68, IP66K
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	1
Mechanical data	
Contour for corrugated hose	without
Mechanical data   Material data	
Coating locking	Nickeled
Locking material	Zinc die-casting
	2.00 00 00300 g
Mechanical data   Mounting data	
Nounting method	inserted, screwed, Shaking protection
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Dperating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
-	Distant the compactors by suitable measures from machanical leads, e.g. by the usage of achieving
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)
Installation   Cable	
	white, yellow, blue, orange
Vire arrangement Cable identification	796
Cable identification lacket Color	796 green
Cable identification lacket Color Type of Certificate	796 green cURus
Cable identification lacket Color Type of Certificate Amount stranding	796 green cURus 1
Cable identification lacket Color Type of Certificate Amount stranding Stranding	796         green         cURus         1         4 wires around Core filler twisted
Cable identification acket Color Type of Certificate Amount stranding Stranding Cable shielding (type)	796         green         cURus         1         4 wires around Core filler twisted         copper braid, tinned
Cable identification lacket Color Type of Certificate Amount stranding Stranding Cable shielding (type) Cable shielding (coverage)	796         green         cURus         1         4 wires around Core filler twisted         copper braid, tinned         85 %
Cable identification Jacket Color Fype of Certificate Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding	796         green         cURus         1         4 wires around Core filler twisted         copper braid, tinned         85 %         Fleece, Foil
Cable identification lacket Color Type of Certificate Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler	796         green         cURus         1         4 wires around Core filler twisted         copper braid, tinned         85 %         Fleece, Foil         yes
Cable identification lacket Color Type of Certificate Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler vire arrangement	796         green         cURus         1         4 wires around Core filler twisted         copper braid, tinned         85 %         Fleece, Foil         yes         white, yellow, blue, orange
Cable identification Cable identification Cype of Certificate Camount stranding Cable shielding (type) Cable shielding (coverage) Banding Filler Cable arrangement Cable weigth Cable weigth	796         green         cURus         1         4 wires around Core filler twisted         copper braid, tinned         85 %         Fleece, Foil         yes         white, yellow, blue, orange         69,3 g/m
Cable identification Cable identification Cype of Certificate Commont stranding Cable shielding (type) Cable shielding (coverage) Banding Ciller Vire arrangement Cable weigth Material jacket	796         green         cURus         1         4 wires around Core filler twisted         copper braid, tinned         85 %         Fleece, Foil         yes         white, yellow, blue, orange         69,3 g/m         PUR
Cable identification Cable identification Fype of Certificate Amount stranding Cable shielding (type) Cable shielding (coverage) Banding Filler Vire arrangement Cable weigth Material jacket Shore hardness jacket	796         green         cURus         1         4 wires around Core filler twisted         copper braid, tinned         85 %         Fleece, Foil         yes         white, yellow, blue, orange         69,3 g/m         PUR         89 Shore A
Cable identification Jacket Color Type of Certificate Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket)	796         green         cURus         1         4 wires around Core filler twisted         copper braid, tinned         85 %         Fleece, Foil         yes         white, yellow, blue, orange         69,3 g/m         PUR         89 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Cable identification Jacket Color Type of Certificate Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Duter-diameter (jacket)	796         green         cURus         1         4 wires around Core filler twisted         copper braid, tinned         85 %         Fleece, Foil         yes         white, yellow, blue, orange         69,3 g/m         PUR         89 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         6,7 mm
Cable identification Jacket Color Type of Certificate Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Duter-diameter (jacket) Folerance outer diameter (sheath)	796         green         cURus         1         4 wires around Core filler twisted         copper braid, tinned         85 %         Fleece, Foil         yes         white, yellow, blue, orange         69,3 g/m         PUR         89 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         6,7 mm         ± 5 %
Cable identification Jacket Color Type of Certificate Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Duter-diameter (jacket)	796         green         cURus         1         4 wires around Core filler twisted         copper braid, tinned         85 %         Fleece, Foil         yes         white, yellow, blue, orange         69,3 g/m         PUR         89 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         6,7 mm

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Amount wires	4
Outer diameter insulation	1,4 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	65 Shore D
Ingredient 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
Nominal 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 % @ 100 MHz
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
Isolation resistance	5000 MΩ × km
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	0° 08
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 bending cycles (C-track)	3 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)	3,3 m/s @ 25 °C
No. of torsion cycles	1 Mio. 25 °C
Torsion stress	± 180 °/m

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