

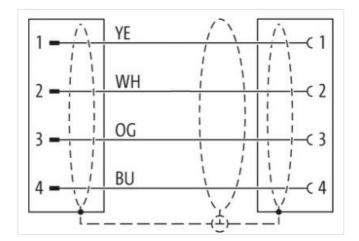
## M12 male 0° / M12 female 0° D-cod. shielded

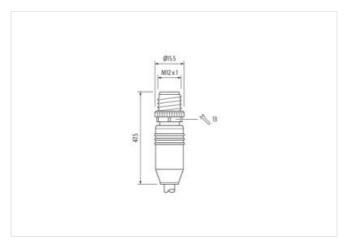
PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 2.8m

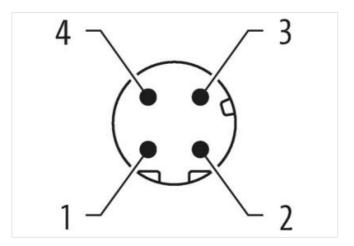
Product fulfills requirements according to UN/ECE R118 Ethernet CAT5 Male straight – female straight M12 – M12, 4-pole D-coded shielded Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

## Link to Product



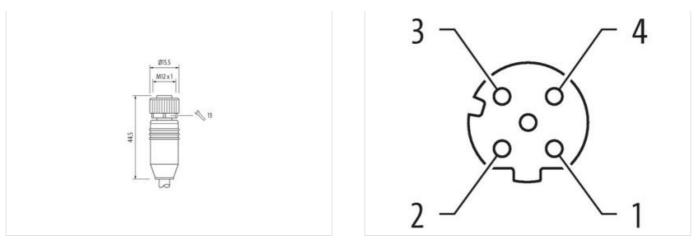






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Product may differ from Image



Cable length	2,8 m	
Side 1		
Tightening torque	0,6 Nm	
Mounting method	inserted, screwed	
Family construction form	M12	
Thread	M12 x 1	
Cable outlet	straight	
Coding	D	
Vaterial	PUR	
No. of poles	4	
Width across flats	SW13	
Side 2		
Tightening torque	0,6 Nm	
Mounting method	inserted, screwed	
Family construction form	M12	
Thread	M12 x 1	
Cable outlet	straight	
Coding	D	
Material	PUR	
No. of poles	4	
Width across flats	SW13	
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	4048879561006	

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Electrical data   Supply     Operating yeo Cinac.     90 V       Current operating yeo contact max.     1,5 A       Industrial communication     Industrial communication       Transfor parameters     CATS. Class D (ISO/IEC 11801 2002), (EN 50173-1)       Data transmission rate max.     100 MBUs       Industrial communication [Electrical     Industrial communication [Electrical       Device protection [Electrical     Industrial communication (Electrical)       Device protection [FICE CR052]     IPS. IPS7, IP66K       Additional condition protection degree     insented, screwed       Pollution Degree     3       Ratel sing voltigo     1.5 KV       Material group (IEC 60664-1)     1       Industrial communication [Electrical     Industrial communication [Electrical       Contror for compated hores     without       Material group (IEC 60664-1)     1       Industrial Communication [Electrical     Industrial Communication [Electrical       Contror for compated hores     without       Material group (IEC 60664-1)     1       Industrial Communication [Electrical     Industrial Communication [Electrical       Contror fore compated hores     industrial Commate compaterit	Packaging unit	1
Operating voltage DC max.     60 V       Current operating per contact max.     1,5 A       Industrial communication     Industrial communication       Transfer parameters     CAT5, Class D (ISO/IEC 118012002), (EN 50173-1)       Data transmission rate max.     100 MBHs       Industrial communication [Ethernton=United transmission rate max.     Fold upplox       Device protection [Etectrical     Fold upplox       Device protection protection degree     inserted, screwed       Pullution Degree     3       Rated supe voltage     1,5 kV       Material group (Ec 60684-1)     1       Industrial data     Contour for corrupated hose       Contour for corrupated hose     without       Mechanical data     Vincule       Contour for corrupated hose     without       Mechanical data [Material data]     Contour for corrupated hose       Contour for corrupated hose     without       Mechanical data [Material data]     Contour for corrupated hose       Contouring temperature max.     85 °C       Contouring temperature max.     85 °C       Contouring temperature max.     85 °C       Contouring temperature max.		
Current operating per cented max.     1,5 A       Industrial communication     Industrial communications       Transfer parameters     CA5. Class D (ISO/IEC 11801:2002), (EN 50173-1)       Data transmission rate max.     100 MBit/s       Industrial communication [Ethernet functionality     Industrial communication [Ethernet functionality       Davice protection [Ethics]     Full duplex     Full duplex       Device protection [Ethics]     IP65, IP67, IP66K     Additional condition protection degree     3       Rated surge voltage     1,5 kV     Material group (IEC 6068-1)     1       Mechanical data     Contor for corrupate hose     Material group (IEC 6068-1)     1       Mechanical data     Jacrel device voltage     3     Transfer parameters       Contor for corrupate hose     without     Mechanical data     Material group (IEC 6068-1)     1       Mechanical data     Jounting method     inserted, screwed, Shaking protection     Transfer parameters       Mounting method     inserted, screwed, Shaking protection     Transfer parameters     Transfer parameters       Operating temperature max.     85 °C     Conditional data     Conditional data     Mouning method     Mouning m		
Industrial communication     CATS. Class D (ISO/IEC 11801:2002), (EN 50173-1)       Data transmission rate max.     100 MB/l/s       Industrial communication J Etherot Internet Inter	· · · ·	
Tansfer parameters     CATS, Class D (ISO/IEC 11801:2002), (EN 50173-1)       Data transmission rate max.     100 MBU's       Industrial communication J Ethernet functionality     Industrial communication J Ethernet functionality       duplex     Full duplex     Full duplex       Device protection I Electrical     Industrial communication protection degree     Inserted, screwed       Dublian Degree     3     Relational condition protection degree     Inserted, screwed       Dublian Degree     3     Relational condition protection degree     Inserted, screwed       Dublian Degree     3     Relational condition protection degree     Inserted, screwed       Contror for corrugate hose     without     Inserted, screwed     Relational condition protection degree     Inserted, screwed, Shaking protection       Mechanical data   Material data     Inserted, screwed, Shaking protection     Inserted, screwed, Shaking protection       Environmential charceteristics   Climatic     So <sup>+</sup> C     Conditional condition temperature max.     So <sup>+</sup> C       Operating temperature min.     25 S <sup>+</sup> C     Commential condition temperature max.     So <sup>+</sup> C       Additional condition temperature max.     So <sup>+</sup> C     Conding (Inserted, screwed, Shaking protection		1,5 A
Data transmission rato max.     100 MBI/s       industrial communication   Ethernet functionality       duplex     Full duplex       Device protection [Electrical       Degree of protection (Electrical       Degree of protection (Electrical       Degree of protection (Electrical       Degree of protection (Electrical       Beade surge voltage     3       Related surge voltage     1.5 kV       Material group (EC 60664-1)     1       Mechanical data     Mechanical data       Contour for corrugate hose     without       Mechanical data [Material data     Zinc dise-casting       Mechanical data [Mounting data     Inserted, screwed, Shaking protection       Mounting method     iserted, screwed, Shaking protection       Operating temperature max.     85 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Costing temperature max.     85 °C       Costing temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Costing temperature max.     85 °C       Costing temperature max. <td>Industrial communication</td> <td></td>	Industrial communication	
Industrial communication   Ethernet functional protection   Electrical       Despres of protection   Electrical       Despres of protection   Electrical       Despres of protection protection degree     IPB65, IPB67, IPB68K       Additional condition protection degree     IPB64, IPB68K       Additional condition protection degree     IPB61, IPB67, IPB68K       Additional condition protection degree     IPB64, IPB68K       Material group (IRC 60684+1)     I       Mechanical data     Imbody     Imbody       Contour for corrugated hose     without     Imbody       Contour for corrugated hose     Wickeled     Imbody     Imbody       Contour for corrugated hose     Wickeled     Imbody     Imbody     Imbody     Imbody       Contour for corrugated hose     Vickeled     Imbody	Transfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)
dopkx     Full duplex       Degree of protection (Electrical     Pess, IPS, IPS, IPS, IPS, IPS, IPS, IPS, IPS	Data transmission rate max.	100 MBit/s
Device protection [Electrical       Degree of protection (EN IEC 60529)     IP65, IP67, IP66K       Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     1,5 kV       Material group (IEC 60686-1)     I       Mechanical data     without       Contrur for corrugated hose     without       Mechanical data     Uncell       Contrur for corrugated hose     without       Mechanical data     Inserted, screwed, Shaking protection       Mechanical data [Material data     Zinc die casting       Mechanical data [Mounting data     Inserted, screwed, Shaking protection       Mounting method     Inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature max.       Operating temperature max.     85 °C       Additional condition temperature max.	Industrial communication   Ethernet function	onality
Degree of protection (EN IEC 60529)     IP65, IP67, IP66K       Additional condition protection degree     isserted, screwed       Pollution Degree     3       Rated surge voltape     1, 5 kV       Material group (IEC 60664-1)     1       Mechanical data     without       Mechanical data [Material group (IEC 60664-1)     1       Mechanical data [Material data     without       Contor for corrugated hose     without       Mechanical data [Material data     Zinc die-casting       Costing locking     Nickeled       Locking material     Zinc die-casting       Mechanical data [Mounting data     inserted, screwed, Shaking protection       Environmental characteristics [Climatic     Concomity       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Concomity     Environmental characteristics [Climatic       Coloi Conflication     796       Cable identification     796       Cable identification     1       Stranding     4 wires around Core filter twisted       <	duplex	Full duplex
Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     1,5 kV       Material group (UEG 60664-1)     1       Mechanical data	Device protection   Electrical	
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 locking     Nickeled     Coating locking       Mechanical data   Material data     Zinc die-casting       Mechanical data   Mounting data     Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Environmental characteristics   Climatic     Coerting temperature min.     -25 °C       Operating temperature max.     85 °C     Additional condition temperature range     depending on cable quality       Conformity     Product standard     DIN EN 61076-2-101 (M12)     Installation   Cable       Cable identification     796     Jacket Color     green       Type of Cartificate     cURus     Amount stranding     1       Stranding     1     Stranding     1       Stranding     1     Stranding     1       Stranding     1     Stranding     1       Stranding     <	Degree of protection (EN IEC 60529)	IP65, IP67, IP66K
Rated surge voltage     1.5 kV       Material group (IEC 60664-1)     1       Mechanical data        Contor for corrugated hose     without       Mechanical data   Material data        Coating locking     Nickeled       Locking matrial     Znc die-casting       Mechanical data   Mounting data        Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic        Operating temperature min.     -25 °C       Operating temperature range     depending on cable quality       Conformity        Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable        Cable color     green       Type of Carlificate     cUPus S       Anount stranding     1       Stranding     4 vies around Core filler twisted       Cable shielding (type)     copper briad, timed       Cable shielding (type)     copper briad, timed       Cable shielding (type)     copper briad, timed       Cable shielding (type)     Standing       Rate strangement     white,	Additional condition protection degree	inserted, screwed
Material group (IEC 60664-1)     I       Mechanical data     Vithout       Mechanical data     Without       Mechanical data   Meterial data     Vickeled       Coating locking     Nickeled       Locking material     Zinc die-casting       Mechanical data   Mounting data     Inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature min.     -25 °C       Operating temperature max.     85 °C     Additional condition temperature range     depending on cable quality       Coformity     Vertext and ard     DIN EN 61076-2-101 (M12)     Installation   Cable       Cable identification     796     Vertext and ard     Quere of the screwed, time depending on cable quality       Cable clor     green     Type of Carificate     CURus       Anount stranding     1     Stranding     4 wires around Core filler twisted       Cable shielding (type)     copper braid, timed     Cable scielding (type)     Copper braid, timed       Cable shielding (coverage)     85 %     Banding     Filece, Foil     Filer       Filer     yes     yes     Nick yellow, blue, orange     Nick ye	Pollution Degree	3
Mechanical data       Contour for corrugated hose     without       Mechanical data   Meterial data     Inckeled       Coating looking     Nickeled       Locking material     Zinc die-casting       Mechanical data   Mounting data     Inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature min.       QS °C     Operating temperature max.       Additional condition temperature range     depending on cable quality       Conformity     Inserted, Screwed, Shaking protection       Product standard     DIN EN 61076-2-101 (M12)       Installion   Cable     green       Zaket Colo     green       Type of Certificate     cURus       Anount stranding     1       Stranding (type)     copper braid, timed       Cable shielding (type)     copper braid, timed       Cable shielding (type)     S5 %       Banding     Fleece, Foil       Filer     yes       wite arangement     white, yellow, blue, orange       No. of berding cycles (C-track)     Shio, @ 25 °C       Cable weighthore     S93 g/m	Rated surge voltage	1,5 kV
Contour for corrugated hose     without       Mechanical data   Material data     Nickeled       Coating locking     Nickeled       Locking material     Zinc die-casting       Mechanical data   Mounting data     Inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature min.     -25 °C       Operating temperature max.     85 °C     Additional condition temperature max.     85 °C       Additional condition temperature may.     depending on cable quality     Conformity       Product standard     DIN EN 61076-2-101 (M12)     Installation   Cable       Cable identification     796     Installation   Cable     Installation   Cable       Stranding     1     Screen     Installation   Cable     Installation   Cable	Material group (IEC 60664-1)	1
Mechanical data     Mickeled       Coating locking     Nickeled       Locking material     Zinc die-casting       Mechanical data   Mounting data     Inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature min.     -25 °C       Operating temperature min.     -25 °C	Mechanical data	
Mechanical data     Mickeled       Coating locking     Nickeled       Locking material     Zinc die-casting       Mechanical data   Mounting data     Inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature min.     -25 °C       Operating temperature min.     -25 °C	Contour for corrugated hose	without
Coating locking     Nickeled       Locking material     Zinc cie-casting       Mechanical data   Mounting data     Inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Sincerity       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Conformity        Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable        Cable dentification     796       Jacket Color     green       Type of Certificate     CURus       Annount stranding     1       Stranding     4 wires around Core filler twisted       Cable shielding (type)     copper braid, tinned       Cable shielding (coverage)     85 %       Banding     Fileeee, Foil       Filler     yes       writer arangement     white, yellow, blue, orange       No. of bending cycles (C-track)     3 Mio. @ 25 °C	-	
Locking material   Zinc die-casting     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 range   depending on cable quality     Conformity      Product standard   DIN EN 61076-2-101 (M12)     Installation   Cable      Cable identification   796     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 (coverage)   85 %     Banding   Fleece, Foil     Filler   yes     wire arrangement   white, yellow, blue, orange     No. of bending cycles (C-track)   3 Mio. @ 25 °C     Cable weigth   69.3 g/m	•	Nickolod
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 range     depending on cable quality       Conformity        Product standard     DIN EN 61076-2·101 (M12)       Installation   Cable        Cable identification     796       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 (coverage)     85 %       Banding     Fleece, Foil       Filler     yes       wire arrangement     white, yellow, blue, orange       No. of bending cycles (C-track)     3 Mio. @ 25 °C       Cable weigth     69,3 yrm		
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Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Conformity     Installation   Cable       Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable     Cable identification     796       Jacket Color     green     Cull Rus       Amount stranding     1     Stranding     4 wires around Core filler twisted       Cable shielding (type)     copper braid, tinned     S%     Small       Banding     Fleece, Foil     Fleece, Foil     S%       Filler     yes     wire arrangement     white, yellow, blue, orange     No. of bending cycles (C-track)     3 Mio. @ 25 °C       Cable weigth     69,3 g/m     Small     Small     Small     Small	· · · ·	
Additional condition temperature range   depending on cable quality     Conformity   International condition temperature range   depending on cable quality     Product standard   DIN EN 61076-2-101 (M12)     Installation   Cable   Cable identification   796     Gable identification   796   Cable identification   green     Type of Certificate   cURus   Culture   Cable identification   9     Amount stranding   1   Stranding   4 wires around Core filler twisted   Cable shielding (type)   copper braid, tinned     Cable shielding (type)   copper braid, tinned   S%   Sanding   Fleece, Foil     Filler   yes   wire arrangement   white, yellow, blue, orange   No. of bending cycles (C-track)   3 Mio. @ 25 °C     Cable weigth   69,3 g/m   Gable weigth   69,3 g/m	· · · ·	
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Type of CertificatecURusAmount stranding1Stranding4 wires around Core filler twistedCable shielding (type)copper braid, tinnedCable shielding (coverage)85 %BandingFleece, FoilFilleryeswire arrangementwhite, yellow, blue, orangeNo. of bending cycles (C-track)3 Mio. @ 25 °CCable weigth69,3 g/m	Cable identification	796
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Cable shielding (type)copper braid, tinnedCable shielding (coverage)85 %BandingFleece, FoilFilleryeswire arrangementwhite, yellow, blue, orangeNo. of bending cycles (C-track)3 Mio. @ 25 °CCable weigth69,3 g/m	Amount stranding	1
Cable shielding (coverage)85 %BandingFleece, FoilFilleryeswire arrangementwhite, yellow, blue, orangeNo. of bending cycles (C-track)3 Mio. @ 25 °CCable weigth69,3 g/m	Stranding	4 wires around Core filler twisted
Banding Fleece, Foil   Filler yes   wire arrangement white, yellow, blue, orange   No. of bending cycles (C-track) 3 Mio. @ 25 °C   Cable weigth 69,3 g/m	Cable shielding (type)	copper braid, tinned
Filler yes   wire arrangement white, yellow, blue, orange   No. of bending cycles (C-track) 3 Mio. @ 25 °C   Cable weigth 69,3 g/m	Cable shielding (coverage)	85 %
wire arrangementwhite, yellow, blue, orangeNo. of bending cycles (C-track)3 Mio. @ 25 °CCable weigth69,3 g/m	Banding	Fleece, Foil
No. of bending cycles (C-track) 3 Mio. @ 25 °C   Cable weigth 69,3 g/m	Filler	yes
Cable weigth 69,3 g/m	wire arrangement	white, yellow, blue, orange
	No. of bending cycles (C-track)	3 Mio. @ 25 °C
	Cable weigth	69,3 g/m
Material jacket PUR	Material jacket	
Shore hardness jacket 89 Shore A		
Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free		lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket) 6,7 mm		
Tolerance outer diameter (sheath)± 5 %		
	Material inner jacket	FRNC
Color (inner jacket) natur		
Material wire insulation PE		
Amount wires 4	Amount wires	4

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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
Traversing distance (C-track)	5 m @ 25 °C
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
Loop resistance	5000 MΩ × km
Nominal voltage power AC max.	300 V
Electrical capacity line constant (wire - wire) (power)	50000 pF/km
AC withstand voltage power (wire - shield)	2 kV @ 60 s
Power frequency withstand voltage power (wire - jacket)	2 kV @ 60 s
AC withstand voltage power (wire - wire)	2 kV @ 60 s
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 torsion cycles	1 Mio. 25 °C
Torsion stress	± 180 °/m

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