



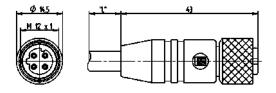
# Product: 0985 342 117

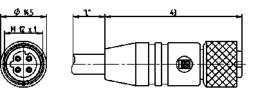
Fast Ethernet Cat5e Data Double-Ended Cordset: Female straight D-coded black M12 Standard to female straight D-coded black M12 Standard, shielded, 50 V AC / 60 V DC, 4 A; PUR green cable, 4-wires, 2x2x0.34 mm<sup>2</sup>

# **Product Description**

Fast Ethernet Cat5e Data Double-Ended Cordset: Female straight D-coded black M12 Standard to female straight D-coded black M12 Standard, shielded, 50 V AC / 60 V DC, 4 A; PUR green cable, 4-wires, 2x2x0.34 mm<sup>2</sup>

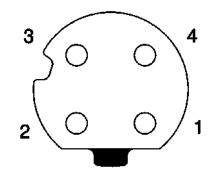
### **Technical Drawing**





Female





**Technical Specifications** 

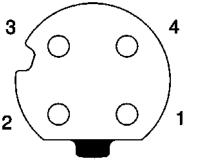
Face View Side 1

Pin 1	Pin 2	Pin 3	Pin 4
yellow	white	orange	blue

 Face View Side 2

 Pin 1
 Pin 2

 Pin 3
 Pin 4



yellow white orange blue

## **Product Description**

Product Family:	Data Connectors
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding:	Shielded
Rated Voltage:	60 V
Rated Impulse Voltage:	1.5 kV
Operating Voltage:	50 V AC / 60 V DC
Rated Current*:	4 A
Data Transmission:	Fast Ethernet Cat5e
Data Transmission Rate:	100 Mbit/s

## **Technical Data Side 1**

Product Sub Family:	M12 Standard	
Type of Contact / Gender:	Female	
Connector Design:	Straight	
Attachment Type:	Coupling Nut	
Number of Pins:	4	
Coding:	D	
Contact Resistance:	≤ 10 mOhm	
Insulation Resistance:	> 10^9 Ohm	
Mating Cycles:	≤ 100	
Ambient Temperature (Operation)*:	- 40 °C - + 90 °C	
Protection Degree / IP Rating**:	IP65, IP67, IP69K	
Design Standard:	IEC 61076-2-101	
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)	
Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)	
Contact Base Material:	CuSn	
Contact Plating:	Cu/Au	
Contact Bearer Material:	PBT	
Contact Bearer Color:	Black	
Flammability Class (Contact Bearer):	UL 94 HB	
Molded Body Material:	TPU	
Molded Body Color:	Black	
Flammability Class (Molded Body):	UL 94 HB	
Attachment Material:	CuZn	
Attachment Plating:	Nickel-plated	
Shielding Material:	CuZn, tin-plated	
Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight	
Note:	Do not connect or disconnect under load.	

# Cable Data

Cable Number:	342
Conductor Size:	2x2x0.34 mm <sup>2</sup>
Number of Wires:	4
Minimal Bending Radius (Fixed Inst):	> 5 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	>2 M
Cycles (Torsion):	> 2 M @ ± 360 °/1 m
Conductor material:	Cu
Cable Jacket Material:	PUR

CarbonConstructionCable Diameter D:0 6.50 ± 0.20 mmCable Diameter D:0 6.50 ± 0.20 mmInsulation Material:PPInsulation Material:0 1.58 ± 0.05 mmInsulated Wire Diameter:0 1.58 ± 0.05 mmCu-ETP1 tinnedCu-ETP1 tinnedCu-ETP1 tinned- 1.50 °C - + 80 °CInsulation Temperature- 50 °C - + 80 °CFixed Installation):- 25 °C - + 80 °CInsulent Temperature- 25 °C - + 60 °CPreger Characteristics:- 25 °C - + 60 °CImmability Class (Cable)DIN EN 60332-2-2, IEC 60332-2-2, IEC 60332-2-2, CSA FT-2, fame-retardantCable Characteristics:Exclusion of dangerous materials; Line construction similar PROFInet C-Specification; Line requirements similar: IEC 11801, IEC 61156 (CAT 5), EN 5073, EN 50288-2-2Cable Characteristics:Exclusion of dangerous materials; Line construction similar PROFInet C-Specification; Line requirements similar: IEC 11801, IEC 61156 (CAT 5), EN 5073, EN 50288-2-2Cable Characteristics:Silcone; LABS-free of lacquer wetting disturbing substances; Coldness flexibility		
Vire Insulation Material:         PP           Prevaluation Material:         PP.           Insulated Wire Diameter:         ø 1.58 ± 0.05 mm           overall Shield (Cable):         Cu-ETP1 tinned           Overall Shield (Cable):         Cu-ETP1 tinned           foil shield:         AI-PT Foil           Immbient Temperature Fixed Installation):         co <sup>°</sup> C - 480 °C           or S - C - 480 °C         -S <sup>°</sup> C - 480 °C           Immbient Temperature Fixed Installation):         co <sup>°</sup> C - 480 °C           Or G - 480 °C         -S <sup>°</sup> C - 480 °C           Immbient Temperature Fixed Installation):         co <sup>°</sup> C - 480 °C           Or G - 480 °C         -S <sup>°</sup> C - 480 °C           Immbient Temperature Fixed Installation):         co <sup>°</sup> C - 480 °C           Immbient Temperature Fixed Installation):         co <sup>°</sup> C - 480 °C           Immbient Temperature Fixed Installation):         co <sup>°</sup> C - 480 °C           Immbient Temperature Fixed Installation):         co <sup>°</sup> C - 480 °C           Immability Class (Cable Cacter):         DIN EN 60332-22, VDE 0482-332-22, ICC 60332-22, CSA FT-2, flame-retardant           Cache Carceteristics:         Sclusion of dangerous materials; Line construction similar PROFInet C-Specification; Line requirements similar: IEC 11801, IEC 61156 (CAT 5), EN 50173, EN 50288-22           Cache Carceteristics:         Sclusion of dangerous mater	Cable Jacket Color:	green matt similarly RAL 6018
nsulated Wire Diamete:#1.58 ± 0.05 mmnsulated Wire Diamete:#1.58 ± 0.05 mmOverall Shield (Cable):Cu-ETP1 tinnedAI-PT FoilAI-PT Foilumbient Temperature Fixed Installation):=0° C - + 80 °C25 °C - + 80 °C=25 °C - + 80 °Cumbient Temperature Drag Chain Inst):=25 °C - + 60 °CDrag Chain Inst):=25 °C - + 60 °Cumbient Temperature Bracket):=25 °C - + 60 °CUI Cable Type:AVM: 20549UI Cable Type:NUM: 20549Sable Characteristics:Exclusion of dangerous materials; Line construction similar PROFInet C-Specification; Line requirements similar: IEC 11801, IEC 61156 (CAT 5), EN 50173, EN 50288-2-2 (100MHz-cable and EIA/TIA 568 B (CAT 5e), Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Good chemical and oil resistance; Exclusion of PVC and silicone; LABS-free of lacquer wetting disturbing substances; Coldness flexibility	Cable Diameter D:	ø 6.50 ± 0.20 mm
Overall Shield (Cable)Cu-ETP1 tinnedobserall Shield (Cable)AI-PT Foilumbient Temperature Fixed Installation):-50 °C - + 80 °Cof 0 °C - + 80 °C-50 °C - + 80 °Cumbient Temperature Drag Chain Inst):-50 °C - + 60 °CJL Cable Type:AWM: 20549JL Cable Type:DN EN 60332-2-2, IEC 60332-2-2, CSA FT-2, flame-retardantcacket):Exclusion of dangerous materials; Line construction similar PROFInet C-Specification; Line requirements similar: IEC 11801, IEC 61156 (CAT 5), EN 50173, EN 50288-2-2cable Characteristics:Sclusion of dangerous materials; Line construction similar PROFInet C-Specification; Line requirements similar: IEC 11801, IEC 61156 (CAT 5), EN 50173, EN 50288-2-2cable Characteristics:Sclusion of dangerous materials; Line construction similar PROFInet C-Specification; Line requirements similar: IEC 11801, IEC 61156 (CAT 5), EN 50173, EN 50288-2-2cable Characteristics:Sclusion of dangerous materials; Line construction similar PROFInet C-Specification; Line requirements similar: IEC 11801, IEC 61156 (CAT 5), EN 50173, EN 50288-2-2cable Characteristics:Sclusion of dangerous materials; Line construction similar PROFInet C-Specification; Line requirements similar: IEC 11801, IEC 61156 (CAT 5), EN 50173, EN 50288-2-2cable Characteristics:Sclusion of dangerous materials; Line construction similar PROFInet C-Specification; Line requirements similar: IEC 11801, IEC 61156 (CAT 5), EN 50173, EN 50288-2-2cable Characteristics:Sclusion of dangerous materials; Line construction similar PROFInet C-Specification; Line requirements similar: IEC 11801, IEC 61156 (CAT 5), EN 50288-2-2	Wire Insulation Material:	PP
Al-PT Foilumbient Temperature Fixed Installation):-0° C - + 80 °C- 25 °C - + 80 °C- 25 °C - + 80 °Cumbient Temperature Drag Chain Inst):- 25 °C - + 60 °CU Cable Type:- 25 °C - + 60 °CU Cable Type:- 25 °C - + 80 °CU Cable Type:- 25 °C - + 80 °CU Cable Type:- 25 °C - + 60 °CU Cable Characteristics:- 25 °C - + 60 °CU Cable Characteristics:- 25 °C - + 60 °CCable Characte	Insulated Wire Diameter:	ø 1.58 ± 0.05 mm
And the temperature Fixed Installation):- S0 °C - + 80 °Cambient Temperature Flex Installation):- 25 °C - + 80 °Cambient Temperature Drag Chain Inst):- 25 °C - + 60 °Cambient Temperature Drag Chain Inst):- 25 °C - + 60 °Cambient Temperature Drag Chain Inst):- 25 °C - + 60 °Cambient Temperature Drag Chain Inst):- 25 °C - + 60 °Cambient Temperature Drag Chain Inst):- 25 °C - + 60 °Cambient Temperature Drag Chain Inst):- 25 °C - + 60 °Cambient Temperature Drag Chain Inst):- 25 °C - + 60 °Cambient Temperature Drag Chain Inst):- 25 °C - + 60 °Cambient Temperature Drag Chain Inst):- 25 °C - + 60 °Cambient Temperature Drag Chain Inst):- 25 °C - + 60 °Cambient Temperature Drag Chain Inst):- 25 °C - + 60 °Cambient Temperature Drag Chain Inst):- 25 °C - + 60 °Cambient Temperature Drag Chain Inst):- 25 °C - + 60 °Cambient Temperature Drag Chain Inst):- 25 °C - + 60 °Cambient Temperature Drag Chain Inst):- 25 °C - + 60 °Cambient Temperature Drag Chain Inst):- 25 °C - + 60 °Cambient Temperature Drag Chain Inst):- 25 °C - + 60 °Cambient Temperature Drag Chain Inst):- 25 °C - + 60 °Cambient Temperature Drag Chain Inst):- 26 °C - + 60 °Cambient Temperature Drag Chain Inst):- 26 °C - + 60 °Cambient Temperature Drag Chain Inst):- 26 °C - + 60 °Cambient Temperature Drag Chain Inst):- 26 °C - + 60 °C <td>Overall Shield (Cable):</td> <td>Cu-ETP1 tinned</td>	Overall Shield (Cable):	Cu-ETP1 tinned
Fixed Installation):       -00°C++00°C         umbient Temperature Flex Installation):       -25°C++80°C         umbient Temperature Drag Chain Inst):       -25°C++60°C         umbient Temperature Drag Chain Inst):       -25°C++60°C         umbient Temperature Drag Chain Inst):       -25°C-+60°C         unc Cable Type:       AWM: 20549         It Cable Type:       AWM: 60332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT-2, flame-retardant         acket):       DIN EN 60332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT-2, flame-retardant         acket):       Exclusion of dangerous materials; Line construction similar PROFInet C-Specification; Line requirements similar: IEC 11801, IEC 61156 (CAT 5), EN 50173, EN 50288-2-2         cable Characteristics:       Exclusion of dangerous materials; Line construction similar PROFInet C-Specification; Line requirements similar: IEC 11801, IEC 61156 (CAT 5), EN 50173, EN 50288-2-2         cable Characteristics:       Exclusion of langerous materials; Line construction similar PROFInet C-Specification; Line requirements similar: IEC 11801, IEC 61156 (CAT 5), EN 50173, EN 50288-2-2         cable Characteristics:       Exclusion of langerous materials; Line construction similar PROFInet C-Specification; Line requirements similar: IEC 11801, IEC 61156 (CAT 5), EN 50173, EN 50288-2-2         cable Characteristics:       Exclusion of langerous materials; Line construction similar PROFInet C-Specification; Line requirements similar: IEC 11801, IEC 61156 (CAT 5), EN 50173, EN 50288-2-2	Foil shield:	AI-PT Foil
Flex Installation):       25 °C + 60 °C         ambient Temperature Drag Chain Inst):       -25 °C - + 60 °C         JL Cable Type:       AWM: 20549         alamability Class (Cable acket):       DIN EN 60332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT-2, flame-retardant         clamability Class (Cable acket):       Exclusion of dangerous materials; Line construction similar PROFInet C-Specification; Line requirements similar: IEC 11801, IEC 61156 (CAT 5), EN 50173, EN 50288-2-2 (100MHz-cable and EIA/TIA 568 B (CAT 5e), Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Good chemical and oil resistance; Exclusion of PVC and Silcone; LABS-free of lacquer wetting disturbing substances; Coldness flexibility	Ambient Temperature (Fixed Installation):	- 50 °C - + 80 °C
Drag Chain Inst):       23 C + 00 C         Drag Chain Inst):       23 C + 00 C         Drag Chain Inst):       AWM: 20549         JL Cable Type:       AWM: 20549         clammability Class (Cable acket):       DIN EN 60332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT-2, flame-retardant         Cable Characteristics:       Exclusion of dangerous materials; Line construction similar PROFInet C-Specification; Line requirements similar: IEC 11801, IEC 61156 (CAT 5), EN 50173, EN 50288-2-2         Cable Characteristics:       Exclusion of dangerous materials; Line construction similar PROFInet C-Specification; Line requirements similar: IEC 11801, IEC 61156 (CAT 5), EN 50173, EN 50288-2-2         Cable Characteristics:       Exclusion of dangerous materials; Line construction similar PROFInet C-Specification; Line requirements similar: IEC 11801, IEC 61156 (CAT 5), EN 50173, EN 50288-2-2         Cable Characteristics:       Exclusion of lacquer wetting disturbing substances; Coldness flexibility	Ambient Temperature (Flex Installation):	- 25 °C - + 80 °C
ilammability Class (Cable acket):       DIN EN 60332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT-2, flame-retardant         cable Characteristics:       Exclusion of dangerous materials; Line construction similar PROFInet C-Specification; Line requirements similar: IEC 11801, IEC 61156 (CAT 5), EN 50173, EN 50288-2-2 (100MHz-cable and EIA/TIA 568 B (CAT 5e), Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Good chemical and oil resistance; Exclusion of PVC and Silicone; LABS-free of lacquer wetting disturbing substances; Coldness flexibility	Ambient Temperature (Drag Chain Inst):	- 25 °C - + 60 °C
acket): acket): Exclusion of dangerous materials; Line construction similar PROFInet C-Specification; Line requirements similar: IEC 11801, IEC 61156 (CAT 5), EN 50173, EN 50288-2-2 (100MHz-cable and EIA/TIA 568 B (CAT 5e), Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Good chemical and oil resistance; Exclusion of PVC and Silicone; LABS-free of lacquer wetting disturbing substances; Coldness flexibility	UL Cable Type:	AWM: 20549
Cable Characteristics: (100MHz-cable and EIA/TIA 568 B (CAT 5e), Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Good chemical and oil resistance; Exclusion of PVC and Silicone; LABS-free of lacquer wetting disturbing substances; Coldness flexibility	Flammability Class (Cable Jacket):	DIN EN 60332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT-2, flame-retardant
Core Colors: Twisted pairs: white & blue, yellow & orange	Cable Characteristics:	(100MHz-cable and EIA/TIA 568 B (CAT 5e), Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Good chemical and oil resistance; Exclusion of PVC and
	Core Colors:	Twisted pairs: white & blue, yellow & orange

#### **Technical Data Side 2**

Product Sub Family, Side 2:	M12 Standard
Type of Contact / Gender, Side 2:	Female
Connector Design, Side 2:	Straight
Attachment Type, Side 2:	Coupling Nut
Number of Pins, Side 2:	4
Coding, Side 2:	D
Contact Resistance, Side 2:	≤ 10 mOhm
Insulation Resistance, Side 2:	> 10^9 Ohm
Mating Cycles, Side 2:	≤ 100
Ambient Temperature (Operation), Side 2*:	- 40 °C - + 90 °C
Protection Degree / IP Rating, Side 2**:	IP65, IP67, IP69K
Design Standard, Side 2:	IEC 61076-2-101
Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category, Side 2:	III acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material, Side 2:	CuSn
Contact Plating, Side 2:	Cu/Au
Contact Bearer Material, Side 2:	РВТ
Contact Bearer Color, Side 2:	Black
Flammability Class (Contact Bearer), Side 2:	UL 94 HB
Molded Body Material, Side 2:	TPU
Molded Body Color, Side 2:	Black
Flammability Class (Molded Body), Side 2:	UL 94 HB
Attachment Material, Side 2:	CuZn
Attachment Plating, Side 2:	Nickel-plated
Shielding Material, Side 2:	CuZn, tin-plated
Fastening Torque (Attachment), Side 2:	M 12x1: (50-60) Ncm, hand-tight

# Safety & Environmental Compliance

yes

RoHS Compliant:

#### Resistances

Halogenfree:	DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1
Oil Resistance:	EN 60811 Part 2-1

#### Notes

Protection Degree / IP Rating Note:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.
Note Derating:	Notice derating

Variants

Item #	Item Description	Cable Length
934716001	0985 342 117/0,5 M	0.5 m
934716002	0985 342 117/1 M	1 m
934716003	0985 342 117/2 M	2 m
934716004	0985 342 117/5 M	5 m
934716005	0985 342 117/10 M	10 m
934716006	0985 342 117/15 M	15 m
934716007	0985 342 117/20 M	20 m
934716008	0985 342 117/25 M	25 m
934716009	0985 342 117/30 M	30 m
934716010	0985 342 117/35 M	35 m
934716011	0985 342 117/40 M	40 m
934716012	0985 342 117/45 M	45 m
934716013	0985 342 117/50 M	50 m
934716014	0985 342 117/60 M	60 m
934716015	0985 342 117/70 M	70 m

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