lumbergautomation
A BELDEN BRAND

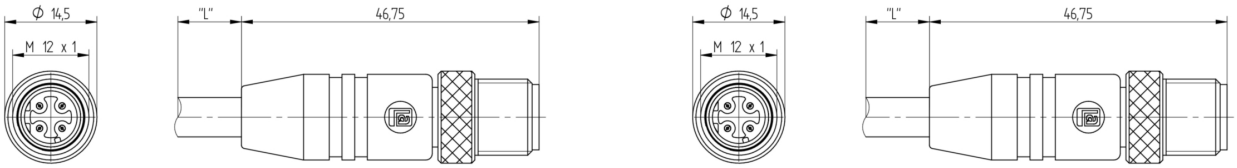
Product: 0985 342 100

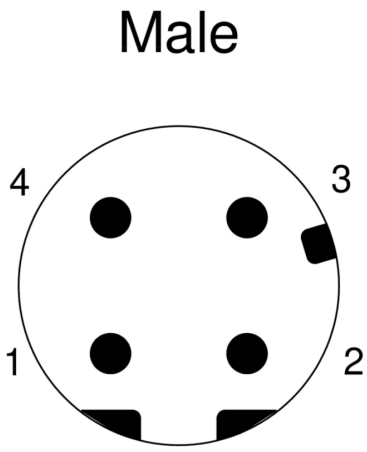
Fast Ethernet Cat5e Data Double-Ended Cordset: Male straight D-coded black M12 Standard to male straight D-coded black M12 Standard, shielded, 50 V AC / 60 V DC, 4 A; PUR green cable, 4-wires, 2x2x0.34 mm²

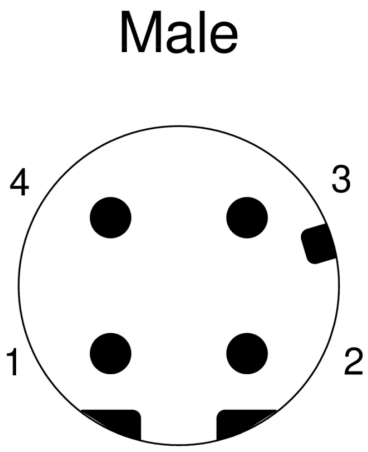
Product Description

Fast Ethernet Cat5e Data Double-Ended Cordset: Male straight D-coded black M12 Standard to male straight D-coded black M12 Standard, shielded, 50 V AC / 60 V DC, 4 A; PUR green cable, 4-wires, 2x2x0.34 mm²

Technical Drawing







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:	Male
Connector Design:	Straight
Attachment Type:	Coupling Screw
Number of Pins:	4
Coding:	D
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	600V Peak AWM rated
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 mm²
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
Cable Jacket Color:	green matt similarly RAL 6018

Cable Diameter D:	ø 6.50 ± 0.20 mm
Wire Insulation Material:	PP
Insulated Wire Diameter:	ø 1.58 ± 0.05 mm
Overall Shield (Cable):	Cu-ETP1 tinned
Foil shield:	Al-PT Foil
Ambient Temperature (Fixed Installation):	- 50 °C - + 80 °C
Ambient Temperature (Flex Installation):	- 25 °C - + 80 °C
Ambient Temperature (Drag Chain Inst):	- 25 °C - + 60 °C
UL Cable Type:	AWM: 20549
Flammability Class (Cable Jacket):	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
Core Colors:	star quad: white & blue, yellow & orange

Technical Data Side 2

Product Sub Family, Side 2:	M12 Standard
Type of Contact / Gender, Side 2:	Male
Connector Design, Side 2:	Straight
Attachment Type, Side 2:	Coupling Screw
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:	PBT
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

RoHS Compliant:	yes

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

History

Update and Revision:	Revision Number: 0.69 Revision Date: 05-31-2024

Variants

Item #	Item Description	Cable Length
108549	0985 342 100/0,3 M	0.3 m
69453	0985 342 100/0,5 M	0.5 m
11949	0985 342 100/0,6 M	0.6 m
69873	0985 342 100/1 M	1 m
687	0985 342 100/1,5 M	1.5 m
64367	0985 342 100/2 M	2 m
934637354	0985 342 100/12,5 M	12.5 m
11951	0985 342 100/2,5 M	2.5 m
68412	0985 342 100/3 M	3 m
601	0985 342 100/3,5 M	3.5 m
934637655	0985 342 100/4 M	4 m
66462	0985 342 100/5 M	5 m
589	0985 342 100/6 M	6 m
934636680	0985 342 100/7,5 M	7.5 m
934637355	0985 342 100/17,5 M	17.5 m
233	0985 342 100/8 M	8 m
5999	0985 342 100/9 M	9 m
66463	0985 342 100/10 M	10 m
72708	0985 342 100/15 M	15 m
66464	0985 342 100/20 M	20 m
83229	0985 342 100/25 M	25 m
72710	0985 342 100/30 M	30 m
107003	0985 342 100/35 M	35 m
70053	0985 342 100/40 M	40 m
107004	0985 342 100/45 M	45 m
83230	0985 342 100/50 M	50 m
107005	0985 342 100/55 M	55 m
934636103	0985 342 100/60 M	60 m
13904	0985 342 100/65 M	65 m
83231	0985 342 100/70 M	70 m
934637387	0985 342 100/75 M	75 m
67568	0985 342 100/80 M	80 m
5	0985 342 100/85 M	85 m
83232	0985 342 100/90 M	90 m

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