

**Product:** [PP12M-MSSV4D-PP12M-MSSV4D-0342](#) 

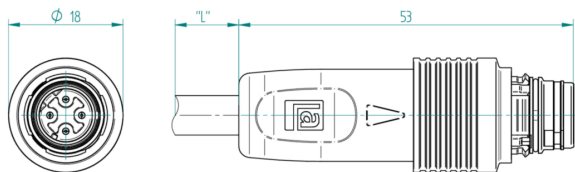


M12 cordset, Push Pull, similar PROFINET Type C, PUR green cable, shielded, male, straight, D-coded, 4-Pin, 2x2x0.34mm<sup>2</sup>, star-quad, PoE

### Product Description

M12 cordset, Push Pull, similar PROFINET Type C, CAT 5, PUR green cable, shielded, male to male, straight to straight, D-coded, 4-Pin, 2x2x0.34mm<sup>2</sup>, star-quad, PoE, 100Base-T, 100 Mbit/s, Fast Ethernet, 63 V DC, 4 A, - 40 °C - + 80 °C (operating temp.), IP65, IP67, IEC 11801, IEC 61156 (CAT 5), EN 50173, EN 50288-2-2 (100MHz-cable and EIA/TIA 568 B (CAT 5e), star-quad: white & blue, yellow & orange, cULus, UL 2238

### Technical Drawing



### Technical Specifications

#### Product Description

Product Family:	Data Connectors
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding:	Shielded
Rated Voltage:	60 V
Rated Voltage (UL):	30 V AC/DC
Rated Impulse Voltage:	1.5 kV
Operating Voltage:	50 V AC / 60 V DC
Rated Current*:	4 A
Rated Current (UL)*:	4A
Data Transmission:	Fast Ethernet Cat5e
Data Transmission Rate:	100 Mbit/s

#### Technical Data Side 1

Product Sub Family:	M12 Standard push pull
Type of Contact / Gender:	Male
Connector Design:	Straight
Attachment Type:	Snap Ring
Number of Pins:	4

Coding:	D
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 <sup>9</sup> Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 40 °C - + 85 °C
Operating Temperature (UL):	max. 80 °C
Protection Degree / IP Rating**:	IP65, IP67
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:	PA
Contact Bearer Color:	Black
Flammability Class (Contact Bearer):	UL 94 V-0
Molded Body Material:	TPU
Molded Body Color:	Black
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	PA
Shielding Material:	GD-Zn, nickel-plated
Fastening Torque (Attachment):	PushPull

## 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 Mio.
Cycles (Torsion):	> 2 M @ ± 360 °/1 m
Conductor material:	Cu
Cable Jacket Material:	PUR
Cable Jacket Color:	green
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 FT2
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:	quad: white & blue, yellow & orange

## Technical Data Side 2

Product Sub Family, Side 2:	M12 Standard push pull
Type of Contact / Gender, Side 2:	Male

Connector Design, Side 2:	Straight
Attachment Type, Side 2:	Snap Ring
Number of Pins, Side 2:	4
Coding, Side 2:	D
Contact Resistance, Side 2:	≤ 10 mOhm
Insulation Resistance, Side 2:	> 10 <sup>9</sup> Ohm
Mating Cycles, Side 2:	≤ 100
Protection Degree / IP Rating, Side 2**:	IP65, IP67
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:	PA
Contact Bearer Color, Side 2:	Black
Flammability Class (Contact Bearer), Side 2:	UL 94 V0
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:	PA
Shielding Material, Side 2:	GD-Zn, nickel-plated
Fastening Torque (Attachment), Side 2:	PushPull

## Approvals

UL-File:	pending
UL:	UL 2238; cULus (pending)

## Safety & Environmental Compliance

RoHS Compliant:	yes
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## Resistances

Halogenfree:	DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1
Oil Resistance:	IEC 60811:404

## 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: 0.13 Revision Date: 08-08-2024
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## Variants

Item #	Item Description
935302004	PP12M-MSSV4D-PP12M-MSSV4D-0342-0500
935302003	PP12M-MSSV4D-PP12M-MSSV4D-0342-0300
935302002	PP12M-MSSV4D-PP12M-MSSV4D-0342-0200
935302001	PP12M-MSSV4D-PP12M-MSSV4D-0342-0100

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