



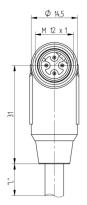
Product: <u>0985 342 131</u> ☑

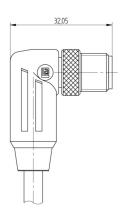
Fast Ethernet Cat5e Data Double-Ended Cordset: Male angled D-coded black M12 Standard to male angled D-coded black M12 Standard, shielded, 50 V AC / 60 V DC, 4 A; PUR green cable, 4-wires, 2x2x0.34 mm²

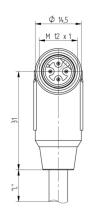
Product Description

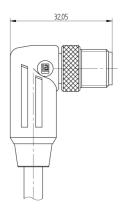
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Technical Drawing

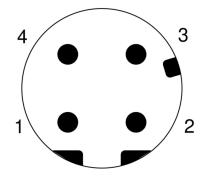




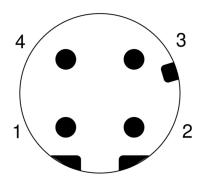




Male

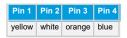


Male



Technical Specifications

Face View Side 1



Face View Side 2



Product Description

Product Family:	Data Connectors			
Brand:	Lumberg Automation			
Connector Type:	ordset, 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:	Angled			
Attachment Type:	Coupling Screw			
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, IP68 (1 m / 24 h), 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 V-2			
Attachment Material:	CuZn			
Attachment Plating:	Nickel-plated			
Shielding Material:	Housing: GD-Zn, nickel-plated, Sleeve: 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, 88 bit Samurus Male Samurus Tipe of Contact / Gesign, Side 2 contact of Design, Side 2 contact Design, Side 2 c					
Side 2: Information Design, Side 2: Quided Allachment Type, Side 2: 4 Coding, Side 2: 9 Coding, Side 2: 10 mOmm Insulation Resistance, Side 2: 100 mOm Insulation Resistance, Side 2: 100 of Dim Nating Cycles, Side 2: 40 °C + 80 °C Nating Cycles, Side 2: 100 of Side Pictor Si		M12 Standard			
Authormant Types (382 2) Colump Sader 2 1 Coding Sader 2 10 mOhm Cristal Resistance, Side 2 10 mOhm Installation Resistance, Side 2 10 mOhm Maling Cycles, Sader 2 40 mOhm Protection Despiration (Operation), Side 2 moles (Protection Despiration) 40 mOhm Protection Despiration (Operation), Side 2 moles (Protection Despiration) 50 moles (Protection Despiration) Pollation Despiration Side 2 moles (Protection Despiration) 60 moles (Protection Despiration) Pollation Despiration Side 2 moles (Protection Despiration) 60 moles (Protection Despiration) Pollation Despiration Side 2 moles (Protection Despiration) 60 moles (Protection Despiration) Pollation Despiration Side 2 moles (Protection Despiration) 10 moles (Protection Despiration) Pollation Despiration Side 2 moles (Protection Despiration) 10 moles (Protection Despiration) Side 2 moles (Protection Despiration) 10 moles (Protection Despiration) Side 2 moles (Protection Despiration) 10 moles (Protection Despiration) Side 2 moles (Protection Despiration) 10 moles (Protection Despiration) Side 2 moles (Protection Despiration) 10 moles (Protection Despiration) Side 2 moles (Protection Despiration) </td <td>Type of Contact / Gender, Side 2:</td> <td>Male</td>	Type of Contact / Gender, Side 2:	Male			
Number of Pins, Side 2: 4 Coding, Side 2: D Cortact Resistance, Side 2: 10 mOhm Insulation Resistance, Side 2: 10 ho Poly Mating Cycles, Side 2: 4 no C + 90 °C Antibort Temperature, Operature, Side 2: 40 °C + 90 °C Protection Degree (IP Policy Temperature) Side 2: 105. FPC / PEB (1 m / 24 h), IPSBK Pelation Degree, Side 2: 2 cc 10 TPS - 24 to 1 Policy Degree, Side 2: 2 cc 10 TPS - 24 to 1 Policy Degree, Side 2: 3 cc. to D IN EN 60864 1 (VDE 0110-1) Cortact Base Material, Side 2: 0 cc. Cortact Base Material, Side 2: 0 cc. Cortact Baser Material, Side 2: 3 bick Cortact Baser Material, Side 2: 4 bick Cortact Baser Material, Side 2:<	Connector Design, Side 2:	Angled			
Coding, Side 2: D Contact Resistance, Side 2: 10 m Ohm Insulation Resistance, Side 2: 100 Ohm Mating Cycles, Side 2: 100 Arbibart Temperature (Operation, Side 2: 40 °C - + 90 °C Potention Degree / IP Parting, Side 2: 106 (1) Feb. (1) Feb. (1) Feb. (1) Feb. (2) Feb. (1) Feb. (2) Feb. (1) Feb. (2) Feb.	Attachment Type, Side 2:	Coupling Screw			
Contact Resistance. Side 2: 100 Ohm Insulation Resistance. Side 2: 100 Oc. Ambient Temperature (Operation), Side 2: 100 Feb. (1951, 1968) (1 1 1 2 4 h), IP68K Potecion Depres 100 2: 100 Feb. (1967, 1968) (1 1 1 2 4 h), IP68K Potecion Depres 20: 100 Feb. (1967, 1968) (1 1 1 2 4 h), IP68K Potecion Depres 30: 100 2: 100 Feb. (1967, 1968) (1 1 1 2 4 h), IP68K Potecion Depres 30: 100 2: 100 Feb. (1967, 1968) (1 1 1 2 4 h), IP68K Potecion Depres 30: 100 2: 100 Feb. (1967, 1968) (1 1 1 2 4 h), IP68K Potecion Depres 30: 100 2: 100 Feb. (1968, 1967, 1968) (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of Pins, Side 2:	4			
2: 10 modulation Resistance. 2 10 modulation Resistance. Side 2: 2 100 Annibert Temperature. 40 °C + 90 °C Protection Degree / IP Post. progree / IP Post. p	Coding, Side 2:	D			
Side 2: 10 9 0 0 0 0 Mating Cycles, Side 2: 40 °C + 90 °C Operation, Side 2: 40 °C + 90 °C Protection Degree /IP P85, IP87, IP88 (1 m / 24 h), IP89K Design Standard, Side 2: IEC 61076-2-101 Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Overvoltage Category. Ill acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: Cu/Au Contact Plating, Side 2: Cu/Au Contact Bearer Material, Side 2: Back Contact Bearer Color, Side 2: UL 94 HB Molded Body Material, Side 2: UL 94 HB Molded Body Material, Side 2: Black Flammability Class (Molded Body), Side 2: UL 94 V-2 Molded Body Side 2:	Contact Resistance, Side 2:	≤ 10 mOhm			
Ambient Temperature (Operation), Side 2*: Protection Degrée Pe pro		> 10^9 Ohm			
Coperation, Side 2*: File CHORN Degree / IPGS, IPGS, IPGS (1 m / 24 h), IPG9K Protection Degree / IPGS, IPGS, IPGS, IPGS, IPGS (1 m / 24 h), IPG9K 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: Cu/Au Contact Plating, Side 2: Cu/Au Contact Bearer Material, Side 2: BIB Contact Bearer Material, Side 2: BIB Contact Bearer Alderial, Side 2: U.9 4 HB Moided Body Color, Side 2: U.9 4 HB Moided Body Color, Side 2: Disconsisted Plating, Side 2: U.9 4 V-2 Altachment Material, Side 2: U.9 4 V-2 Altachment Material, Side 2: Nickel-plated Shielding Material, Side 2: Nickel-plated Nickel-plated Nickel-plated	Mating Cycles, Side 2:	≤ 100			
Rating, Side 2**	Ambient Temperature (Operation), Side 2*:	- 40 °C - + 90 °C			
Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Overvoltage Category, Side 2: CuSn Contact Base Material, Side 2: CuIAu Contact Bearer Material, Side 2: CuIAu Contact Bearer Color, Side 2: Su	Protection Degree / IP Rating, Side 2**:	IP65, IP67, IP68 (1 m / 24 h), IP69K			
Overvoltage Category, Side 2: Ill 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: Back 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 Molded Body Color, Side 2: UL 94 V-2 Attachment Material, Side 2: UL 94 V-2 Attachment Material, Side 2: Nickel-plated Shielding Material, Side 2: Nickel-plated, Sleeve: CuZn, nickel-plated, Sleeve: CuZn, tin-plated Fastening Torque M.1241-(56.60) Nome bond tight	Design Standard, Side 2:	IEC 61076-2-101			
Side 2: Custact Base Material, Side 2: Cu/Au Contact Plating, Side 2: Cu/Au Contact Bearer Material, Side 2: Du Jay HB Molded Body Color, Side 2: TPU Molded Body Color, Side 2: Du Jay HB Molded Body Material, Side 2: Du Jay H	Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)			
Side 2: CUIAU Contact Plating, Side 2: CuIAu Contact Bearer Material, Side 2: PBT Contact Bearer Color, Side 2: UL 94 HB Molded Body Color, Side Black Cide 2: Black Contact Bearer), Side 2: UL 94 HB Molded Body Color, Side Black Cide Side 2: UL 94 V-2 Molded Body Color, Side Cide Side Side Side Side Side Side Side S	Overvoltage Category, Side 2:	III acc. to DIN EN 60664-1 (VDE 0110-1)			
Contact Bearer Material, Side 2: Contact Bearer Color, Side 2: UL 94 HB Molded Body Material, Side 2: Molded Body Color, Side 2: Li 94 V-2 Attachment Material, Side 2: CuZn Attachment Plating, Side 2: Chickel-plated Molkel-plated, Sleeve: CuZn, tin-plated Fastening Torque Molded Body Naterial, Side 2: Contact Bearer Naterial, Side 2: Contact Bearer Color, Side 2: Diack TPU Attachment Plating, Side 2: CuZn Molded Body Material, Side 2: Nickel-plated Molded Body Color, Side 2: CuZn Attachment Plating, Side 2: Molkel-plated Molkel-plated, Sleeve: CuZn, tin-plated		CuSn			
Side 2: Black Contact Bearer Color, Side 2: UL 94 HB Molded Body Material, Side 2: Black Molded Body Color, Side Black Molded Body Color, Side Black Molded Body Side 2: UL 94 V-2 Molded Body Side 2: UL 94 V-2 Attachment Material, Side 2: Nickel-plated Molded Body Side 3: Nickel-plated Mold	Contact Plating, Side 2:	Cu/Au			
Side 2: Black Flammability Class (Contact Bearer), Side 2: UL 94 HB Molded Body Material, Side 2: Black Molded Body Color, Side 2: Black Molded Body Color, Side 2: UL 94 V-2 Molded Body Color, Side 2: UL 94 V-2 Attachment Material, Side 2: Nickel-plated Attachment Plating, Side 2: Nickel-plated Shielding Material, Side 2: Housing: GD-Zn, nickel-plated, Sleeve: CuZn, tin-plated Fastening Torque M 12/31: (56.60) New hond tickt	Contact Bearer Material, Side 2:	РВТ			
(Contact Bearer), Side 2: Molded Body Material, Side 2: Molded Body Color, Side 2: Molded Body Color, Side 2: Lu 94 V-2 Attachment Material, Side 2: Attachment Plating, Side 2: Nickel-plated Shielding Material, Side 2: Housing: GD-Zn, nickel-plated, Sleeve: CuZn, tin-plated Fastening Torque Mut 24: (60.60) Nem bond tight.		Black			
Side 2: Molded Body Color, Side 2: Flammability Class (Molded Body), Side 2: Attachment Material, Side 2: Attachment Plating, Side 2: Nickel-plated Shielding Material, Side 2: Housing: GD-Zn, nickel-plated, Sleeve: CuZn, tin-plated Fastening Torque M 12/1: (50.50) New bond tight	Flammability Class (Contact Bearer), Side 2:	UL 94 HB			
2: Black Flammability Class (Molded Body), Side 2: UL 94 V-2 Attachment Material, Side 2: CuZn Attachment Plating, Side 2: Nickel-plated Shielding Material, Side 2: Housing: GD-Zn, nickel-plated, Sleeve: CuZn, tin-plated Fastening Torque M 12/1: (50.50) Nom-band tight		TPU			
(Molded Body), Side 2: Attachment Material, Side 2: Attachment Plating, Side 2: Nickel-plated Shielding Material, Side 2: Housing: GD-Zn, nickel-plated, Sleeve: CuZn, tin-plated Fastening Torque M 12/1: (50.50) New bond tight	Molded Body Color, Side 2:	Black			
2: Attachment Plating, Side 2: Nickel-plated Shielding Material, Side 2: Housing: GD-Zn, nickel-plated, Sleeve: CuZn, tin-plated Fastening Torque M 12/1: (50.50) Nem band tight	Flammability Class (Molded Body), Side 2:	UL 94 V-2			
Shielding Material, Side 2: Housing: GD-Zn, nickel-plated, Sleeve: CuZn, tin-plated Fastening Torque M 12/1: (50.60) New hand tight		CuZn			
Fastening Torque M 12v1 (50 60) Nem hand tight	Attachment Plating, Side 2:	Nickel-plated			
Fastening Torque (Attachment), Side 2: M 12x1: (50-60) Ncm, hand-tight	Shielding Material, Side 2:	Housing: GD-Zn, nickel-plated, Sleeve: 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: 0.57 Revision Date: 02-03-2025

Variants

Item #	Item Description	Cable Length
20400	0985 342 131/0,25 M	0.25 m
14104	0985 342 131/0,3 M	0.3 m
20110	0985 342 131/0,4 M	0.4 m
20421	0985 342 131/0,8 M	0.8 m

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