



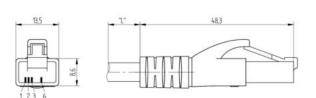
# Product: RKHS 4D-RJ45-342 ☑

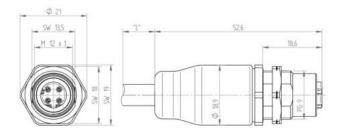
Fast Ethernet Cat5e Data Double-Ended Cordset: Male straight RJ45-coded black RJ45 to female straight D-coded black M12 Overmolded Receptacle, shielded, 30 V AC / 42 V DC, 1.5 A; PUR green cable, 4-wires, 2x2x0.34 mm²

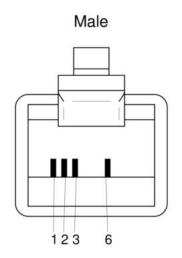
#### **Product Description**

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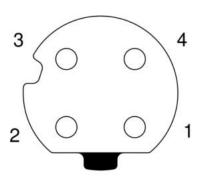
#### **Technical Drawing**





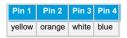


# Female

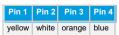


## **Technical Specifications**

Face View Side 1



#### Face View Side 2



### **Product Description**

Product Family:	Data Connectors
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding:	Shielded
Rated Voltage:	60 V
Rated Impulse Voltage:	1 kV
Operating Voltage:	30 V AC / 42 V DC
Rated Current*:	1.5 A
Data Transmission:	Fast Ethernet Cat5e
Data Transmission Rate:	100 Mbit/s

### **Technical Data Side 1**

Product Sub Family:	RJ45
Type of Contact / Gender:	Male
Connector Design:	Straight
Number of Pins:	4
Coding:	RJ45
Contact Resistance:	≤ 20 mOhm
Insulation Resistance:	> 10^9 Ohm
Mating Cycles:	≤ 750
Ambient Temperature (Operation)*:	- 25 °C - + 60 °C
Protection Degree / IP Rating**:	IP20
Design Standard:	IEC 60603-7
Overvoltage Category:	I acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material:	Copper Alloy
Contact Plating:	Cu/Au
Contact Bearer Material:	PC
Contact Bearer Color:	Clear
Flammability Class (Contact Bearer):	UL 94 V-0
Molded Body Material:	PVC
Molded Body Color:	Black
Shielding Material:	Copper, nickel-plated
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):	>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 automation	
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:	Twisted pairs: white & blue, yellow & orange	

### **Technical Data Side 2**

Product Sub Family, 300 ct         M12 Overmoided Receptable           Type of Context Genium         remails           Connector Design, 304 ct         strakt           Connector Design, 304 ct         strakt           Malariment Type, Side 2         50 certification           Contage Resistance, 300 ct         10 mohrm           Installation Resistance, 300 ct         2 mohrm           Installation Resistance, 300 ct         2 mohrm           Malarice Transmitter         2 mohrm           Malarice Type, 500 ct         2 mohrm           Arbitisher Transmitter         2 mohrm           Malarice Type, 500 ct         2 mohrm           Production Degree / IP         50, 500 ct           Production Degree / IP         50, 500 ct           Production State State Assistance, 3 mohrm         3 mohrm           State 2         3 mohrm           State 2         3 mohrm           State 2         1 mohrm           Design State 3, 5 mohrm         3 mohrm           State 2         3 mohrm           State 2         3 mohrm           State 2         3 mohrm           State 2         4 mohrm           Contage Elevation State 2         3 mohrm           State 2         4 mo		
Side 2:         Interest of December Design, Side 2:         Stempt           Conting, Disde 2:         4           Conting, Side 2:         0           Conting, Side 2:         0           Conting, Side 2:         10 m Ohm           Installation Resistance, Side 2:         100 g Ohm           Side 2:         100 g Ohm           Mating Cycles, Side 2:         100 g Ohm           Mating Cycles, Side 2:         25 °C + 80 °C           Polication Design Standard, Side 2:         12 °C + 80 °C           Polication Design Standard, Side 2:         100 °C           Polication Design Standard, Side 2:         100 °C           Polication Design Standard, Side 2:         100 °C           Polication Design Standard, Side 2:         3 cc. to Din En 606641 (VDE 0110-1)           Contract Beans Material, Side 2:         4 cc. to Din En 606641 (VDE 0110-1)           Side 2:         4 cc. to Din En 606641 (VDE 0110-1)           Contract Bearer Material, Side 2:         4 cc. to Din En 606641 (VDE 0110-1)           Side 2:         4 cc. to Din En 606641 (VDE 0110-1)           Contract Bearer Material, Side 2:         4 cc.           Contract Bearer Color, Side 2:         8 lack           Side 2:         4 cc.           Contract Bearer Color, Side 2:         8 lack </td <td></td> <td>M12 Overmolded Receptacle</td>		M12 Overmolded Receptacle
Attachment Type, Side 2:         5 crow. Locking           Number of Pins. Side 2:         4           Coding, Side 2:         0           Cortact Resistance, Side 2:         10 mOhm           Installion Resistance, Side 2:         10 ro/9 Ohm           Mating Cycles, Side 2:         25 rC + 80 °C           Operation Degree, Side 2:         26 rC + 80 °C           Protection Degree, Side 2:         26 rC + 80 °C           Pollution Degree, Side 2:         26 rC 67-80 °C           Pollution Degree, Side 2:         26 rC 67-80 °C           Pollution Degree, Side 2:         3 cc. to DIN EN 00064-1 (VDE 0110-1)           Cortact Base Material, Side 2:         4 cc. to DIN EN 00064-1 (VDE 0110-1)           Cortact Bearer Moterial, Side 2:         4 cc. to DIN EN 00064-1 (VDE 0110-1)           Cortact Bearer Moterial, Side 2:         4 cc. to DIN EN 00064-1 (VDE 0110-1)           Cortact Bearer Moterial, Side 2:         4 cc. to DIN EN 00064-1 (VDE 0110-1)           Cortact Bearer Color, Side 2:         4 cc. to DIN EN 00064-1 (VDE 0110-1)           Cortact Bearer Color, Side 2:         4 cc. to DIN EN 00064-1 (VDE 0110-1)           Cortact Bearer Color, Side 2:         4 cc. to DIN EN 00064-1 (VDE 0110-1)           Cortact Bearer Color, Side 2:         4 cc. to DIN EN 00064-1 (VDE 0110-1)           Cortact Bearer Color, Side 2:		Female
Number of Prins, Side 2:         4           Codings, Side 2:         D           Contact Resistance, Side 2:         \$10 mOhm           Insulation Resistance, Side 2:         \$100 Ohm           Mating Cycles, Side 2:         \$100 Ohm           Ambient Temperature, Operature, Side 2:         \$2 months of Cycles, Side 2:         \$100 Ohm           Protection Degree (IP) Resistance, Side 2:         \$100 Ohm         \$100 Ohm           Protection Degree (IP) Resistance, Side 2:         \$2 months of Control Con	Connector Design, Side 2:	Straight
Coding, Side 2:         D           Contact Resistance, Side 2:         \$10 mOhm           Insulation Resistance, Side 2:         \$10 mOhm           Mating Cycles, Side 2:         \$100           Anchient Temperature (Operation), Side 2:         \$25 °C + 80 °C           Protection Degree / IP Pating, Side 2:         \$25 °C + 80 °C           Protection Degree / IP Pating, Side 2:         \$100 NH 80864-1 (VDE 0110-1)           Pollution Degree, Side 2:         \$3 cac. to DIN EN 60864-1 (VDE 0110-1)           Owner ollage Category, Side 2:         \$1 curvey of the control of t	Attachment Type, Side 2:	Screw-Locking
Contact Resistance. Side 2:         \$ 10 mOhm           Insulation Resistance. Side 2:         \$ 10 th Ohm           Side 2:         \$ 10 th Ohm           Mating Cycles, Side 2:         \$ 25 °C + 80 °C           Operation Design Side 2:         \$ 10 th Ohm           Placetion Design Side 2:         \$ 10 th Ohm Side Per Presenting, Side 2:           Protection Design Side 2:         \$ 10 th Ohm No. 10	Number of Pins, Side 2:	4
2: 10 10 10 10 10 10 10 10 10 10 10 10 10	Coding, Side 2:	D
Side 2:         10 9 0 1111           Mating Cycles, Side 2:         5 10 0           Coperation), Side 2:         25 °C + 80 °C           Protection Degree /		≤ 10 mOhm
Ambient Temperature (Operators), Side 2*:         -25 °C + 80 °C           Polescino Degree IP Rating, Side 2**:         IP65, IP67           Rollidor Degree, Side 2         IEC 61076-2-101 (In style of)           Pollution Degree, Side 2         3 acc. to DIN EN 60684-1 (VDE 0110-1)           Overvoltage Category, Side 2:         1 acc. to DIN EN 60684-1 (VDE 0110-1)           Contact Base Material, Side 2:         Cu/Au           Contact Baser Material, Side 2:         Cu/Au           Contact Bearer Material, Side 2:         PBT           Contact Bearer Naterial, Side 2:         PBT           Contact Bearer Naterial, Side 2:         UL 94 HB           Molded Body Material, Side 2:         PA           Molded Body Coor, Side 2:         Black           Flammability Class (Wolded Body Coor, Side 2:         UL 94 HB           Molded Body Coor, Side 2:         UL 94 HB           Molded Body Coor, Side 2:         UL 94 HB           Molded Body Side 2:         UL 94 HB           Molded Body Side 2:         UL 94 HB           Molded Body Coor, Side 2:         <		> 10^9 Ohm
(Operation), Side 2*:         1P65, IP67           Rating, Side 2*:         IEC 61076-2-101 (in style of)           Pollution Degree, Side 2:         3 acc. to DIN EN 60664-1 (VDE 0110-1)           Overvoltage Category, Side 2:         1 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:         BBT           Contact Bearer Color, Side 2:         Black           Contact Bearer Alberial, Side 2:         U. 94 HB           Moided Body Color, Side 2:         DA           Moided Body, Oside 2:         U. 94 HB           Housing Material, Side 2:         U. 24 HB           Housing Material, Side 2:         U. 94 HB           Housing Material	Mating Cycles, Side 2:	≤ 100
Rating, Side 2**	Ambient Temperature (Operation), Side 2*:	- 25 °C - + 80 °C
Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1)  Overvoltage Category, Side 2: 1 acc. to DIN EN 60664-1 (VDE 0110-1)  Contact Base Material, Side 2: Cu/Au  Contact Bearer Material, Side 2: Du/Au  Contact Bearer Color, Side Side Side Side Side Side Side Side	Protection Degree / IP Rating, Side 2**:	IP65, IP67
Overvoltage Category, Side 2: Contact Base Material, Side 2: Contact Plating, Side 2: Contact Bearer Material, Side 2: Contact Beare	Design Standard, Side 2:	IEC 61076-2-101 (In style of)
Side 2: Cuntact Base Material, Side 2: Cu/Au  Contact Bearer Material, Side 2: Cu/Au  Contact Bearer Material, Side 2: Dut 94 HB  Molded Body Color, Side 2: Museum Material, Side 2: UL 94 HB  Molded Body Color, Side 2: Nickel-plated  Attachment Material, Side 2: CuZn, Nickel-plated  Attachment Material, Side 2: Nickel-plated  Matechment Plating, Side 2: Nickel-plated	Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Side 2: CUIAu  Contact Plating, Side 2: CuI/Au  Contact Bearer Material, Side 2: PBT  Contact Bearer Color, Side 2: UL 94 HB  Molded Body Color, Side 2: Molded Body, Side 2: UL 94 HB  Molded Body Color, Side 2: UL 94 HB  Molded Body Color, Side 2: UL 94 HB  Molded Body Color, Side 2: UL 94 HB  Attachment Material, Side 2: CuZn, Nickel-plated  Attachment Plating, Side 2: Nickel-plated  Attachment Plating, Side 2: Nickel-plated  Material, Side 2: Nickel-plated	Overvoltage Category, Side 2:	I acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Bearer Material, Side 2:  Contact Bearer Color, Side 2:  Contact Bearer Color, Side 2:  UL 94 HB  Molded Body Material, Side 2:  Molded Body Color, Side 2:  Molded Body Color, Side 2:  Flammability Class (Molded Body), Side 2:  UL 94 HB  Housing Material, Side 2:  CuZn, Nickel-plated  Attachment Material, Side 2:  Attachment Plating, Side 2:  Nickel-plated  Molked Body Material, Side 2:  Nickel-plated  Molked Body Color, Side 2:  Molded Body Color, Side 2:  UL 94 HB  Molted Body Color, Side 2:  Molted Body Color, Side 2:  UL 94 HB  Molted Body Color, Side 2:  UL 94 HB  Molted Body Color, Side 2:  Molted Body Color, Side 2:  UL 94 HB  Molted Body Color, Side 2:  UL 94 HB  Molted Body Color, Side 2:  UL 94 HB  Molted Body Color, Side 2:  Molted Body Material, Side 2:  Mol		CuSn
Side 2: FBT Contact Bearer Color, Side 2: Black Flammability Class (Molded Body Color, Side 2: Black Flammability Class (Molded Body), Side 2: UL 94 HB  Molded Body Naterial, Side 2: UL 94 HB  Housing Material, Side 2: CuZn, Nickel-plated  Attachment Material, Side 2: Nickel-plated  Attachment Plating, Side 2: Nickel-plated  Fastening Torque M 1291: (50.60) New hand-ticht	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 HB  Molded Body Color, Side 2: UL 94 HB  Flammability Class (Molded Body), Side 2: UL 94 HB  CuZn, Nickel-plated  Attachment Material, Side 2: CuZn, Nickel-plated  Attachment Material, Side 2: Nickel-plated  M 12v1: (50.60) New band tight		PBT
Molded Body Material, Side 2:  Molded Body Color, Side 2:  Flammability Class (Molded Body), Side 2:  UL 94 HB  Housing Material, Side 2:  Attachment Material, Side 2:  Attachment Plating, Side 2:  Nickel-plated  Material Side 2:  Material Side 2:  Material Side 2:  Material Side 3:  Material Side 3:  Material Side 3:  Material Side 4:  Material Side 4:  Material Side 5:  Material Side 5:  Material Side 6:  Material Side 6		Black
Side 2: Molded Body Color, Side 2: Black Flammability Class (Molded Body), Side 2: UL 94 HB Housing Material, Side 2: CuZn, Nickel-plated Attachment Material, Side 2: CuZn Attachment Plating, Side 2: Nickel-plated  Attachment Plating, Side 2: Nickel-plated  Material Side 2: Nickel-plated  Material Side 3: Nickel-plated	Flammability Class (Contact Bearer), Side 2:	UL 94 HB
2: Black Flammability Class (Molded Body), Side 2: UL 94 HB Housing Material, Side 2: CuZn, Nickel-plated Attachment Material, Side 2: CuZn Attachment Plating, Side 2: Nickel-plated Fastening Torque M 1231: (50.60) Ncm hand-tight		PA
(Molded Body), Side 2:  Housing Material, Side 2:  CuZn, Nickel-plated  Attachment Material, Side 2:  CuZn  Attachment Plating, Side 2: Nickel-plated  M 12/1: (50.60) Ncm hand-tight		Black
Attachment Material, Side 2: CuZn  Attachment Plating, Side 2: Nickel-plated  Fastening Torque M 1231: (50-60) Ncm hand-tight	Flammability Class (Molded Body), Side 2:	UL 94 HB
2: CULT CULT COLOR	Housing Material, Side 2:	CuZn, Nickel-plated
Fastening Torque M 12v1: (50-60) Nem hand-tight	Attachment Material, Side 2:	CuZn
	Attachment Plating, Side 2:	Nickel-plated
		M 12x1: (50-60) Ncm, hand-tight

# Safety & Environmental Compliance

RoHS Compliant:
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### 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: 0.23 Revision Date: 02-03-2025

#### **Variants**

Item #	Item Description	Cable Length
23947	RKHS 4D-RJ45-342/4 M	4 m

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