



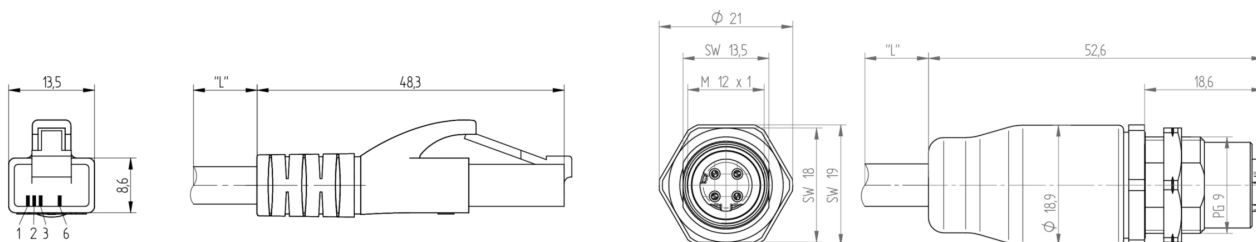
**Product:** [RKHS 4D-RJ45-342](#)

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 mm<sup>2</sup>

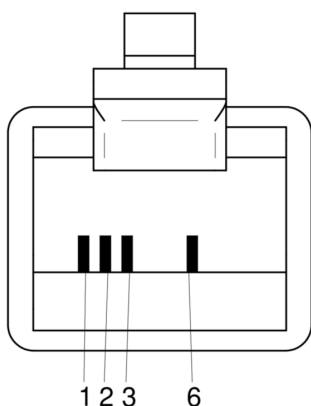
**Product Description**

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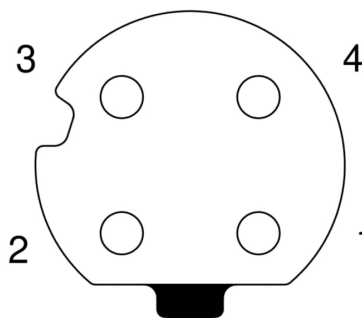
**Technical Drawing**



Male



Female



**Technical Specifications**

Face View Side 1

| Pin 1  | Pin 2  | Pin 3 | Pin 4 |
|--------|--------|-------|-------|
| yellow | orange | white | 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 Type:         | Shielded              |
| Voltage Rating:         | 60 V                  |
| Rated Impulse Voltage:  | 1 kV                  |
| Operating Voltage:      | 30 V AC / 42 V DC     |
| Current Rating:         | 1.5 A                 |
| Data Transmission Type: | Fast Ethernet Cat5e   |
| Data Transmission Rate: | 100 Mbit/s            |

Technical Data Side 1

|                                      |                                          |
|--------------------------------------|------------------------------------------|
| Side 1 Product Sub Family:           | RJ45                                     |
| Side 1 Type of Contact/Gender:       | Male                                     |
| Connector Design:                    | Straight                                 |
| Number of Pins:                      | 4                                        |
| Coding, Side 1:                      | RJ45                                     |
| Contact Resistance:                  | ≤ 20 mOhm                                |
| Insulation Resistance:               | > 10 <sup>9</sup> 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                             |
| Side 1 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 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):                         | > 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:                             | Twisted pairs: white & blue, yellow & orange                                                                                                                                                                                                                                                                                                                                                                                          |

Technical Data Side 2

|                                              |                                       |
|----------------------------------------------|---------------------------------------|
| Side 2 Product Sub Family:                   | M12 Overmolded Receptacle             |
| Side 2 Type of Contact/Gender:               | Female                                |
| Connector Design, Side 2:                    | Straight                              |
| Attachment Type, Side 2:                     | Screw-Locking                         |
| 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                                 |
| Ambient Temperature (Operation), Side 2*:    | - 25 °C - + 80 °C                     |
| Protection Degree / IP Rating, Side 2**:     | IP65, IP67                            |
| Design Standard, 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:                | I 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:                | PA                                    |
| 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                         |
| 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: 0.23 Revision Date: 02-03-2025 |
|----------------------|-------------------------------------------------|

Variants

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

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