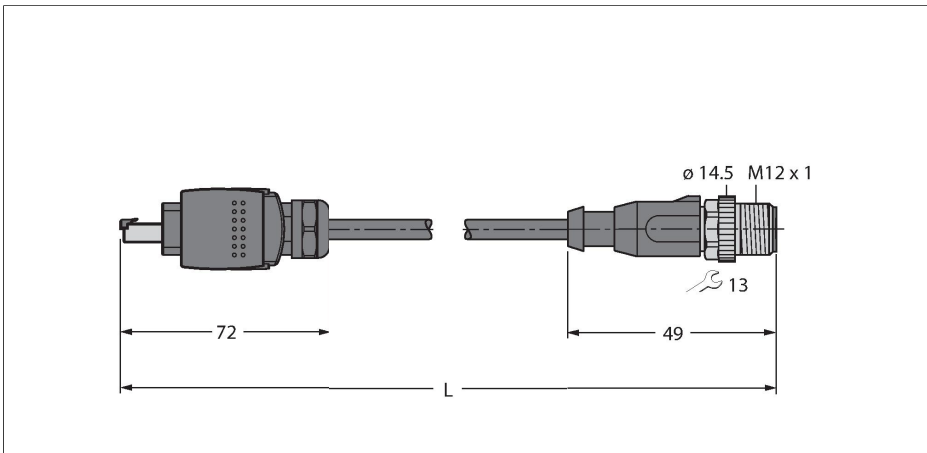


# AIDA-GC-RSSD-4416-15M

## Industrial Ethernet Cable, PUR – Extension Cable According to AIDA

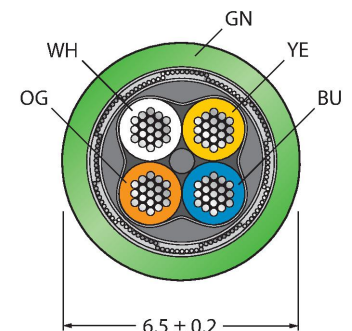


### Features

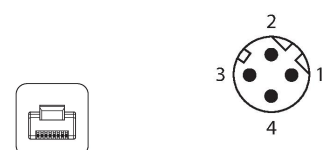


- Ethernet cable: 4-pin, AWG 22
- CAT 5E
- Jacket material: PUR
- Jacket color: green
- Shielding: overlapping aluminum foil, tinned copper wire
- Jacket diameter: 6.5 mm
- Oil resistant acc. to IEC 60811-2-1 and UL13
- Halogen free acc. to IEC 60754
- Flame retardant acc. to IEC 60332-1-2 and UL2556 VW1
- RoHS compliant
- AIDA compliant
- Protection class: IP65 and IP67
- M12 male, straight
- RJ45 male connector acc. to IEC 60603-7

### Cable Cross-Section



### Contact assignment



### Technical data

|                              |                                                           |
|------------------------------|-----------------------------------------------------------|
| Type                         | AIDA-GC-RSSD-4416-15M                                     |
| ID                           | 100032146                                                 |
| Connector A                  | Male, RJ45, Straight                                      |
| Number of pins               | 4                                                         |
| Contacts                     | Metal, CuZn, Gold-plated                                  |
| Contact carriers             | Plastic, Black                                            |
| Connector body               | Die-cast Zinc, GD-Zn, Nickel-plated, silver-plated        |
| Mechanical lifespan          | > 750 Mating cycles                                       |
| Protection class             | IP65, IP67, (plugged)                                     |
| Connector B                  | Male, M12 × 1, Straight, D-coded                          |
| Number of Pins               | 4                                                         |
| Contacts                     | Metal, CuZn, Gold-plated                                  |
| Contact carriers             | Plastic, PA, UL 94, Black                                 |
| Connector body               | Plastic, TPU, UL 94, Black                                |
| Coupling nut/retaining screw | Brass, GD-Zn, Nickel-plated                               |
| Tightening torque            | 0.4 ... 0.6 Nm (observe max. torque of mating connector!) |
| Mechanical life              | > 100 Mating cycles                                       |
| Pollution degree             | 3/2                                                       |
| Protection class             | IP67, Only when screwed together                          |
| Cable                        |                                                           |
| Network protocol             | Ethernet                                                  |
| Cable diameter               | Ø 6.5 mm ±0.20                                            |
| Cable jacket                 | PUR, Green                                                |
| Shielding                    | Aluminum foil, tinned copper wire                         |
| Core insulation              | PE                                                        |

Technical data

|                                          |                |
|------------------------------------------|----------------|
| Core cross-section                       | 4 x 0.32 mm²   |
| Arrangement of strands                   | 7 x 0.25 mm    |
| Core colors                              | WH, YE, BU, OG |
| Electrical properties at +20 °C          |                |
| Rated voltage                            | 40 V           |
| Test voltage                             | 2000 V         |
| Current                                  | 1.5 A          |
| DC resistance (loop)                     | 120 Ω/km       |
| Nom. impedance                           | 100 Ω (1MHZ)   |
| Nom. capacitance                         | 50 pF/m        |
| Mechanical and chemical properties       |                |
| Bending radius (stationary installation) | ≥ 5 x Ø        |
| Bending radius (flexible use)            | ≥ 15 x Ø       |
| Bending cycles                           | ≥ 3 million    |
| Torsional stress                         | ± 180 °/m      |
| Torsion cycles                           | Max. 100,000   |
| Ambient temperature (fixed)              | -40...+70 °C   |
| Ambient temperature (mobile)             | -20...+60 °C   |
| Other Features                           |                |
| Qualified for drag chain use             | yes            |
| Halogen-free                             | yes            |
| PVC-free                                 | yes            |
| UV resistance                            | yes            |
| Oil-resistant                            | yes            |
| Flame-retardant                          | yes            |
| Approvals                                | UL Listed      |

Accessories

|                                                                                                                                                                   |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| TORQUE-WRENCH-SET-BUS                                                                                                                                             | 6936171 |
| Torque wrench set; grip with adjustable torque 0.4 to 1.0 Nm; torque wrench set, fork wrench for M8 (SW9), fork wrench for M12 (SW13), fork wrench for M12 (SW14) |         |

Circuit Diagram

