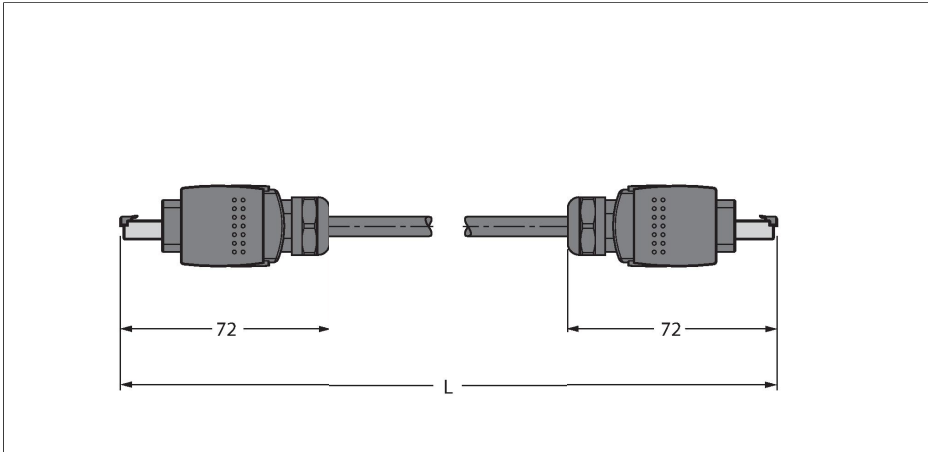


# AIDA-GC-AIDA-GC-4416-5M

## Industrial Ethernet Cable, PUR – Power cable according to AIDA

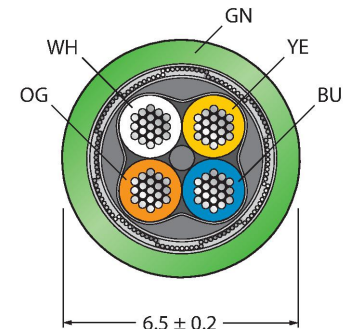


### Features



- 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
- RJ45 male connector acc. to IEC 60603-7

### Cable Cross-Section



### Contact assignment



### Technical data

|                        |                                                    |
|------------------------|----------------------------------------------------|
| Type                   | AIDA-GC-AIDA-GC-4416-5M                            |
| ID                     | 6935651                                            |
| 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, RJ45, Straight                               |
| Number of Pins         | 4                                                  |
| Contacts               | Metal, CuZn, Gold-plated                           |
| Contact carriers       | Plastic, Black                                     |
| Connector body         | Die-cast Zinc, GD-Zn, nickel-plated                |
| Mechanical life        | > 750 Mating cycles                                |
| Protection class       | IP65, IP67, (Plugged)                              |
| 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                                                 |
| Core cross-section     | 4 x 0.32 mm <sup>2</sup>                           |
| Arrangement of strands | 7 x 0.25 mm                                        |
| Core colors            | WH, YE, BU, OG                                     |

Technical data

| 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    |

Circuit Diagram

