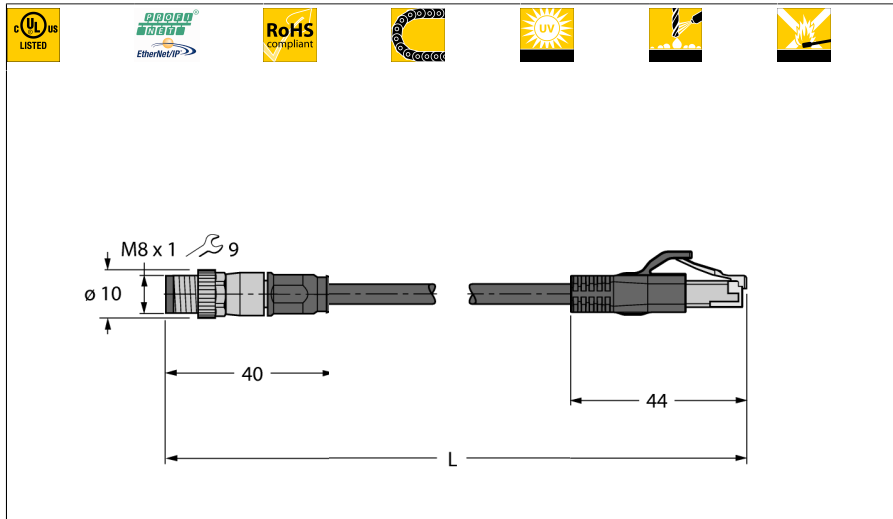


# Industrial Ethernet/PROFINET Cable

## Extension Cable

### PSGS4M-RJ45S-4416-100M



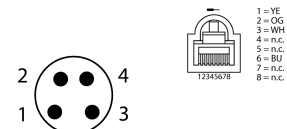
- Ethernet cable: 4-pin, AWG 22
- CAT 5E
- Jacket material: PUR
- Jacket color: green
- Shielding: overlapping aluminum foil, tinned copper wire
- Jacket diameter: 6.5 mm
- Suitable for drag chain use
- Oil resistant acc. to IEC 60811-2-1 and UL13
- Halogen free acc. to IEC 60754
- Flame retardant acc. to IEC 60332-1-2 and UL2556 VW1
- Approval: UL
- RoHS compliant
- PNO compliant
- RJ45 male connector, straight, 4-pin
- M8 male connector, straight
- Cable length: 100 m

|      |                        |
|------|------------------------|
| Type | PSGS4M-RJ45S-4416-100M |
| ID   | 100003022              |

|                           |                                                              |
|---------------------------|--------------------------------------------------------------|
| Connector A               | Male, M8 × 1, Straight                                       |
| Number of pins            | 4                                                            |
| Connector body            | Plastic, TPU, UL 94, Black                                   |
| Coupling nut/screw        | Zinc, GD-Zn, Nickel-plated                                   |
| Tightening torque (range) | 0.4 ... 0.6 Nm<br>(observe max. torque of mating connector!) |
| Mechanical lifespan       | > 100 Mating cycles                                          |
| Pollution degree          | 3/2                                                          |
| Protection class          | IP67, Only in screwed condition                              |

|                  |                      |
|------------------|----------------------|
| Connector B      | Male, RJ45, Straight |
| Number of Pins   | 4                    |
| Contact carriers | Plastic, PC          |
| Connector body   | Plastic, TPU, UL 94  |
| Mechanical life  | > 100 Mating cycles  |
| Pollution degree | 3/2                  |
| Protection class | IP20                 |

|                        |                                   |
|------------------------|-----------------------------------|
| Cable                  |                                   |
| Network protocol       | Ethernet                          |
| Cable diameter         | Ø 6.5mm ±0.20                     |
| Cable length           | 100 m m                           |
| Cable jacket           | PUR, Green                        |
| Shielding              | Aluminum foil, tinned copper wire |
| Core insulation        | PE                                |
| Core cross-section     | 4 x 0.32 mm²                      |
| Arrangement of strands | 7 x 0.25mm                        |
| Core colors            | WH, YE, BU, OG                    |



**Circuit Diagram**

## Electrical properties at +20 °C

|                      |              |
|----------------------|--------------|
| Rated voltage        | 30V          |
| Test voltage         | 2000 V       |
| Current              | 1.5AA        |
| 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)              | -50...+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 |

