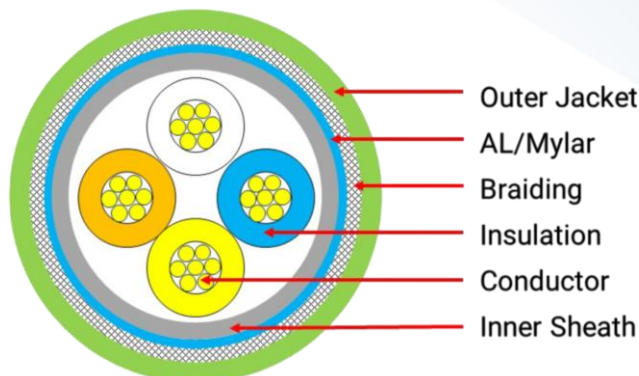


Profinet Cable – Type B



PROFINET, as an industrial Ethernet communication protocol, has different variants and profiles that cater to various industrial automation needs and application requirements. These different types of PROFINET are designed to address specific aspects of industrial automation and offer varying levels of performance and functionality.

Features

- Multiple layers of shielding to protect against electromagnetic interference (EMI) and radio frequency interference (RFI) that can disrupt communication signals.
- Cables are built to withstand the harsh conditions found in industrial environments, including exposure to dust, moisture, chemicals, and physical stress
- PROFINET cables use twisted pair wiring, which helps reduce interference and crosstalk between data lines Maximum throughput, reliability and performance
- Supports high data rates, so the cables are designed to handle the increased bandwidth requirements of industrial automation systems

Mechanical Specifications

| | |
|----------------------------|---|
| Conductor AWG | : 22 |
| Conductor Material | : ABC |
| No of Strands | : 7 |
| Nominal Conductor Diameter | : 0.254±0.003 mm |
| Insulation Material | : HDPE |
| Insulation Diameter | : 1.55±0.050 mm |
| No. of Core | : 4 |
| Laid Up | : (4 Cores + dummy optional) laid up with suitable lay length and direction. Wrapped with Melinex Tape. |
| Color | : White, Blue, Yellow & Orange |
| Drain Wire | : No |
| Inner Jacket | : PVC |
| Inner Jacket OD | : 4.4±0.1 mm |
| Shielding | |
| Cable Wrap | : Al Mylar Tape |
| Material & Coverage | : ATC, >80% |

Profinet Cable – Type B

| | | |
|------------------------|---|----------------|
| Outer Sheath | : | Polyurethane |
| Outer Sheath Color | : | Green |
| Outer Sheath Thickness | : | 0.82 mm |
| Overall cable diameter | : | 6.6±0.1mm |
| Sequential Marking | : | At every meter |
| RIP Cord | : | No |
| Cross filler | : | No |
| Packing | : | Roll of 100m |

Electrical Specifications

| | | |
|------------------------------|---|-------------------|
| Conductor Resistance (DC) | : | 54.4Ω/Km |
| Insulation Resistance | : | >100MΩ/Km |
| Operating Voltage | : | 300V |
| HV Test | : | With Stand |
| Test Voltage Core/Core | : | 1000 VDC |
| Test Voltage Core/Shield | : | 1500 VDC |
| Minimum Bending radius Fixed | : | 3X cable diameter |
| Installation | | |
| Rated Current | : | 1.75A |
| Rated Voltage | : | 72V |

Environmental Specifications

| | | |
|--------------------------|---|-----------------|
| Installation Temperature | : | -80°C to +120°C |
| Storage Temperature | : | -80°C to +120°C |
| Operating Temperature | : | -80°C to +120°C |

Standard Compliances/Certifications

- RoHS Certified

Ordering Information

| Product Code | Description |
|----------------|--|
| 86901-110-0110 | Profinet, Double Sheath, Inner PVC, Outer PUR Cable, Type B, Cat5e |