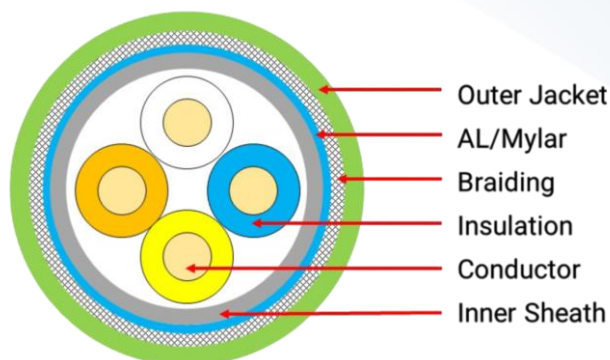


Profinet Cable – Type A



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
Nominal Conductor Diameter	: 0.654±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%
Outer Sheath	: Polyurethane

Profinet Cable – Type A

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)	: 118Ω/Km
Insulation Resistance	: min. 5 GΩxkm
Operating Voltage	: ≤600V
Dielectric Strength	: DC 1.5KV for 1min
Coupling attenuation	: ≥80dB @30-100MHz
HV Test	: With Stand
Test Voltage Core/Core	: 1000 VDC
Test Voltage Core/Shield	: 1500 VDC
Minimum Bending radius Fixed Installation	: 3x cable diameter
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
86901-100-0110	Profinet, Double Sheath, Inner PVC, Outer PUR Cable, Type A, Cat5e