PROconnect
Passive infrastructure

Efficient solutions for your Ethernet infrastructure

Reliable, structured connection

up to
10
Gigabit/s

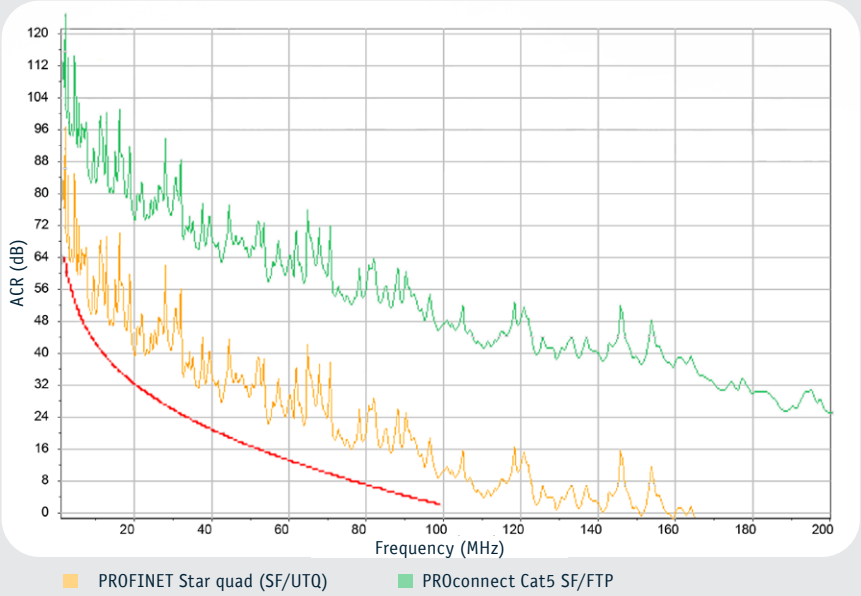
Indu
Industrial Solutions
Sol

PROconnect - Industrial Ethernet cable

Simplest solutions for installing PROFINET/Ethernet cables for self-assembly

What characterises a high-quality Ethernet cable?

A good Ethernet cable ensures reliable and interference-free data transmission – even under demanding conditions. In addition to material quality and workmanship, one technical parameter is particularly important:

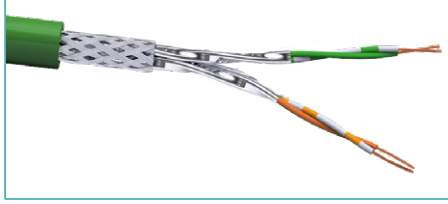
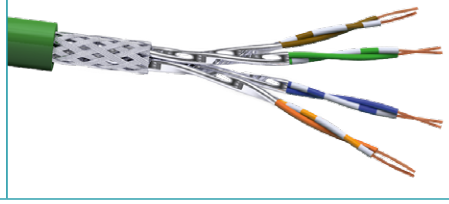
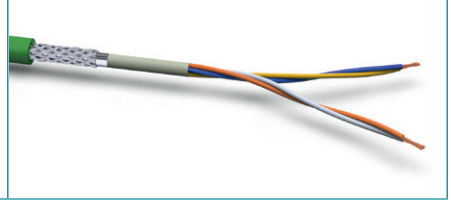


Comparison of ACR value

The ACR value (Attenuation to Crosstalk Ratio – Near End)

It describes the relationship between signal attenuation and the interference signal caused by crosstalk at the near end of the line.

A high ACR value stands for excellent signal quality, low interference and stable network communication – particularly important for high data rates and long transmission distances.

PROconnect Cat5 SF/FTP	PROconnect Cat6A SF/FTP	PROconnect Cat5 SF/UTQ
Twisted Pair, shielded pair-twisted cable (SF/FTP)	Twisted Pair, shielded pair-twisted cable (SF/FTP)	Star quad, shielded cross-twisted cable (SF/UTQ)
high ACR value	high ACR value	low ACR value
Colour coding:TIA/EIA-568	Colour coding: TIA/EIA-568	Colour coding: PROFINET
Conductor structure: AWG 24	Conductor structure:AWG 24	Conductor structure: AWG 22
Fast Connect suitable	Fast Connect suitable	Fast Connect suitable
100 Mbit/s transmission rate	up to 10 Gbit/s transmission rate	100 Mbit/s transmission rate
Variations: PROconnect Cat5 SF/FTP – Type B PROconnect Cat5 SF/FTP – Type C PROconnect Cat5 SF/FTP – Type R	**Variations:** PROconnect Cat6A SF/FTP – Type B PROconnect Cat6A SF/FTP – Type C PROconnect Cat6A SF/FTP – Type R	**Variations:** PROconnect Cat5 SF/UTQ – Type B PROconnect Cat5 SF/UTQ – Type C PROconnect Cat5 SF/UTQ – Type R
		

PROconnect - Industrial Ethernet connectors

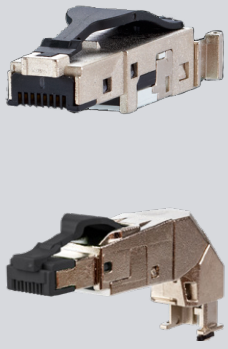
Field-terminatable RJ45 and M12 Industrial Ethernet connectors

Fast. Safe. Flexible.

During installation, every second counts – and every connection must function correctly. The **field-terminatable RJ45 and M12 connectors** in the **PROconnect series** enable fast, error-free installation directly on site thanks to innovative technologies such as Fast Connect and insulation displacement technology. This saves you time and reduces installation errors to a minimum.

Your advantages at a glance

- **Fast Connect technology:**
  Simple cable preparation and secure assembly in just a few steps.
- **Insulation displacement connectors technology :**
  Precise and tool-free contacting
- **Reliable performance:**
  Safe data transmission even under extreme conditions.

PROconnect RJ45 Cat5	PROconnect RJ45 Cat6A	PROconnect M12 Cat5	PROconnect M12 Cat6A
Field-terminable RJ45 plug	Field-terminable RJ45 plug	Field-terminable M12 plug D-coded	Field-terminable M12 plug X-coded
up to 100 Mbit/s transmission rate	up to 10 Gbit/s transmission rate	up to 100 Mbit/s transmission rate	up to 10 Gbit/s transmission rate
Suitable for 4-wire cables (2 pairs)	Suitable for 8-wire cables (4 pairs)	Suitable for 4-wire cables (2 pairs)	Suitable for 8-wire cables (4 pairs)
Variations: PROconnect RJ45 Cat5 180° PROconnect RJ45 Cat5 90°	**Variations:** PROconnect RJ45 Cat6A 180° PROconnect RJ45 Cat6A 360°	**Variations:** PROconnect M12 Cat5 plug PROconnect M12 Cat5 socket	**Variations:** PROconnect M12 Cat6 plug PROconnect M12 Cat6 socket
			

PROconnect - Industrial Ethernet patch cable

Efficient use of industrial Ethernet patch cables – time savings during installation

Industrial Ethernet patch cables are the ideal solution for fast and reliable network cabling in industrial environments. Unlike cables assembled on site, patch cables are ready for immediate use.

Your advantages at a glance:

- **No time-consuming assembly:** connectors are already permanently installed, eliminating the need for manual assembly.
- **Reduced error rate:** The source of errors caused by manual assembly is eliminated.

The biggest advantage is the significantly reduced installation time. While classic field assembly requires several steps such as stripping, connecting and testing, installation with patch cables takes just a few seconds. This not only saves time, but also costs.

Build your own patch cable

Article number designation

140 X X X X X X - XXXX

- X → Connection A
- X → Connection output A
- X → Connection B
- X → Connection output B
- X → Cable type
- X → Sheath type
- XXXX → Length in cm

Example

140	0	0	1	0	0	0	-	1000
	RJ45	straight	M12	straight	Cat5 SF/UTP AWG 24	PVC		1000 cm

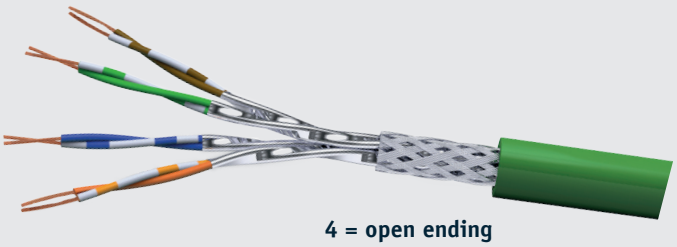
Connection

0 = RJ45

3 = M8 A-coded

2 = M12 X-coded

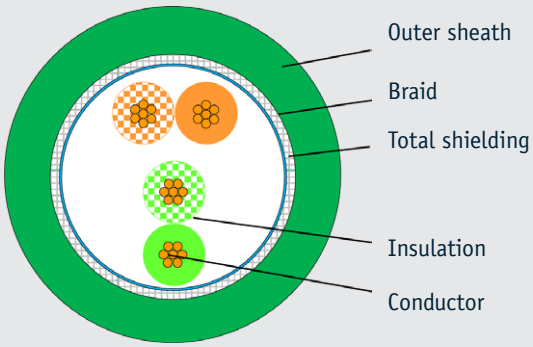
1 = M12 D-coded



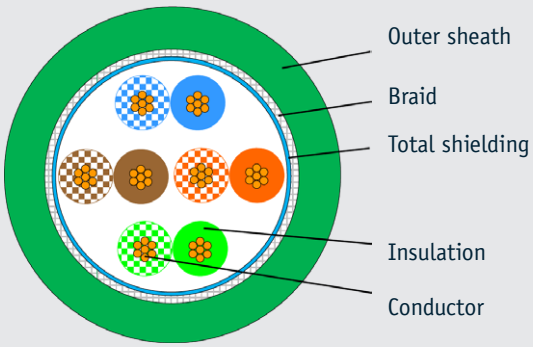
4 = open ending

Cable type

0 = Cat5 SF/UTP – AWG 24



1 = Cat6A SF/UTP – AWG 26



Connection output

0 = straight
1 = angled 0°
2 = angled 90°
3 = angled 180°
4 = angled 270°

Sheath type

0 = PVC
1 = PUR

Length in

Example: 0100 = 1m

PROconnect - Industrial Ethernet patch panel

Fast, safe and space-saving connection in the control cabinet

The **PROconnect Industrial Ethernet patch panel** is the ideal solution for structured and reliable cabling in industrial networks. It connects patch cables in the control cabinet with installation cables and ensures a clear, well-organised network structure.

Also available as M12 variant

Your advantages at a glance:

- **Fast Connect Installation:**
  Save time with proven cutting-in-line technology – no special tools required.
- **Robust design:**
  Developed for industrial use – vibration-resistant and durable.
- **Space-saving design:**
  Compact design for easy integration into control cabinets and distribution boards.

Area of application:
Ideal for mechanical and plant engineering and all applications where a secure and quick connection of patch cables to installation cables is required.

The perfect combination: PROconnect and PROmesh by Indu-Sol

Structured cabling for OT networks

Compliant with standards and future

Reliable communication is the backbone of modern production facilities. Structured Ethernet cabling provides the basis for stable, standard-compliant OT networks.

- **Compliant with ISO/IEC 11801 and EN 50173 standards** – for maximum efficiency and compatibility.
- **Cable lengths**
  - Installation cable: up to 90 m
  - Patch cable: up to 10 m (divided into one or two patch cables)
  - Total length: 100 m
- **Patch panels for order and flexibility** – easy transitions from patch cables to installation cables.
- **Industrial-grade components** – robust, EMC-compliant and suitable for harsh environments.

Why structured cabling?

- ✓ Fast and efficient planning and installation
- ✓ Future-proof for all Ethernet protocols
- ✓ Easy documentation and testing

Choose cabling that meets standards and minimises your installation time.

Planning made easy – with PROnetplan V2

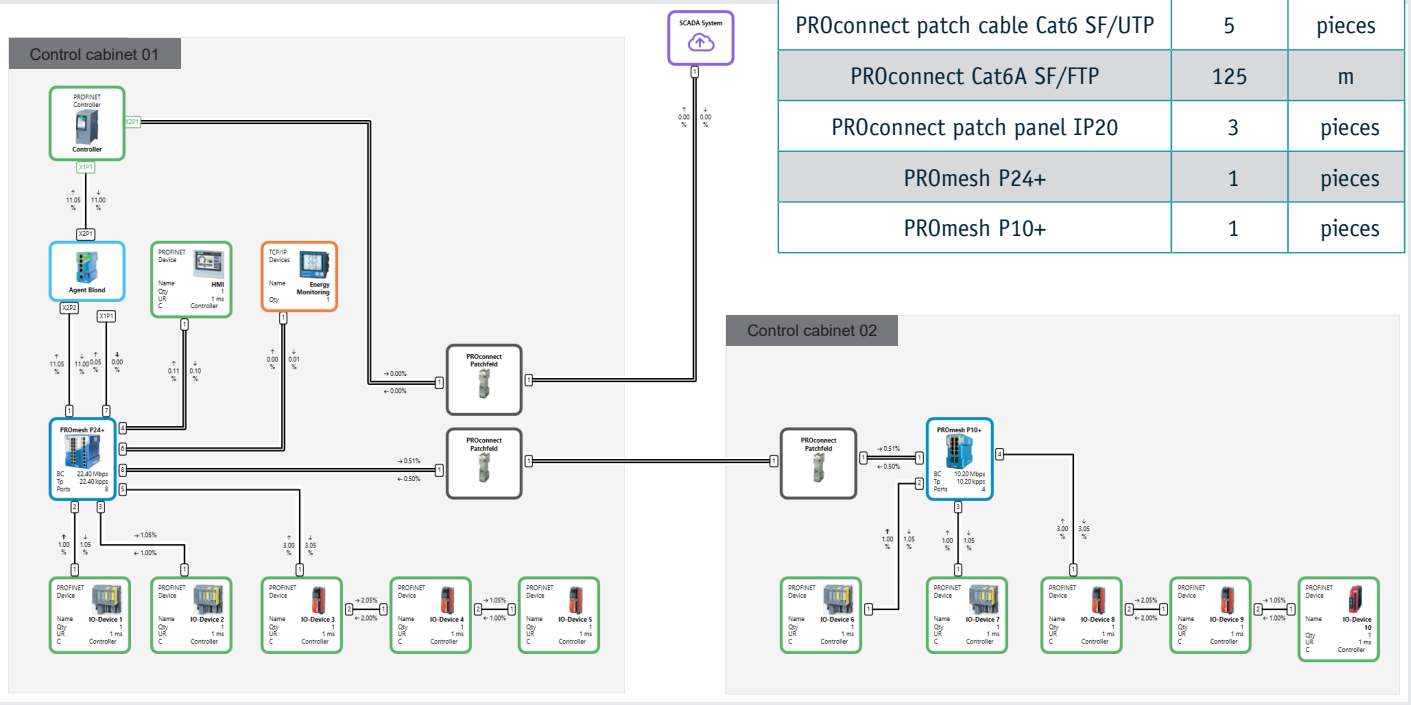
PROnetplan V2 offers the perfect solution for efficient OT network planning. The software supports you in all important steps:

- **Automatic parts list creation**– saves time and reduces errors.
- **Selection of the necessary components** – always compatible with your network topology.
- **Bandwidth planning** – for a future-proof and powerful infrastructure.

With PROnetplan V2, you can design your networks to be transparent, compliant with standards and economical – from the initial idea to the final implementation.

Name	Number	Unit
PROconnect patch cable Cat5 SF/UTP	13	pieces
PROconnect patch cable Cat6 SF/UTP	5	pieces
PROconnect Cat6A SF/FTP	125	m
PROconnect patch panel IP20	3	pieces
PROmesh P24+	1	pieces
PROmesh P10+	1	pieces

PROnetplan: Project calculation



PROnetplan V2: digital network planning

InduSol America, LLC
980 Birmingham Rd Ste 721
Alpharetta, GA 30004

Phone: +1 (678) 880-6910

info@indusolamerica.com
www.indusolamerica.com

Certified to DIN EN ISO 9001:2015

Indu-Sol GmbH
Blumenstrasse 3
04626 Schmoelln

Stand 11/2025