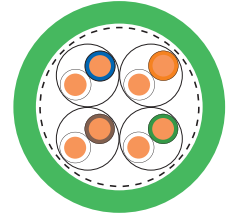




ETHERLINE® PN Cat.7

Ethernet cable Category 7, Class F for fixed installation - verified up to 600 MHz



Info

- Industrial Ethernet cable
- For PROFINET applications with 4 pairs
- Cat.7 qualified for 10Gbit/s

- Benefits**
- Can be used in dry or damp rooms
 - Screened against interference
 - Can be used for Industrial Ethernet in harsh industrial environments
 - 4pair: 100Mbit/s up to 10 Gbit/s for Industrial Ethernet

- Application range**
- For industrial secondary and tertiary cabling according to EN 50173-3 ISO/IEC 24702
 - Wiring of machines, tools, devices, appliances and control cabinets
 - Max. cable length for 100 Mbit/s up to 10 Gbit/s is 100 m
 - Suitable for EtherCAT and EtherNet/IP applications

- Product features**
- PUR outer sheath is highly resistant to mineral oils and abrasion
 - Robust, halogen-free FRNC outer sheath
 - The oil-resistant PVC sheath enables usage in industrial environments
 - High-quality, double screening ensures high transmission reliability in areas with electromagnetic interference

- Product Make-up**
- Solid bare copper wire AWG23
 - Core insulation: foamed polyethylen (PE)
 - S/FTP: copper braid as overall screening and pair screening with aluminium compound foil
 - Colour: green (based on RAL 6018)

Technical data

- Peak operating voltage**
(not for power applications) 125 V
- Minimum bending radius**
Fixed installation: 8 x outer diameter
- Characteristic impedance**
nom. 100 Ω acc. to IEC 61156-5
- Temperature range**
Cable with PVC jacket
Fixed installation: -30°C to +80°C
Flexing: -5°C bis +50°C
FRNC: -30°C to +80°C

Article number	Article designation	Number of pairs and AWG per conductor	Core diameter in mm	Outer diameter [mm]	Copper index (kg/km)
PVC outer sheath					
2170594	ETHERLINE® PN CAT.7 Y	4x2xAWG23/1	1.4	8.1	40
Halogen-free jacket					
2170595	ETHERLINE® PN CAT.7 FRNC	4x2xAWG23/1	1.4	8.1	40
PUR outer sheath, halogen-free					
2170596	ETHERLINE® PN CAT.7 P	4x2xAWG23/1	1.4	8.1	40

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

- Accessories**
- EPIC® DATA AX RJ45 Cat.6_A refer to page 459
 - EPIC® DATA 90 RJ45 Cat.6_A refer to page 459
 - EPIC® DATA AX RJ45 Cat.6_A IP68 refer to page 460
 - EPIC® DATA M12X refer to page 462
 - EPIC® DATA CCR FA refer to page 463