



ETHERLINE® Cat.7

Fixed installation



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 is 100 m
max. cable length for 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 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 AWG22
- Core insulation made of polyethylene (PE)
- S/FTP: copper braid as overall screening and pair screening with aluminium compound foil
- Colour: green (based on RAL 6018)

Technical data

| | |
|--|--|
| | ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable |
| | Peak operating voltage (not for power applications) 125 V |
| | Minimum bending radius Fixed installation: 10 x outer diameter |
| | Characteristic impedance 100 ohm at 1 - 100 MHz |
| | Temperature range fixed installation PVC: -30°C to +80°C PUR: -40°C to +80°C cable halogenfree compound Fixed installation: -25°C to +80°C |

| Article number | Article designation | Number of pairs and AWG per conductor | Max. outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|---------------------------------------|---------------------|---------------------------------------|--------------------------|----------------------|----------------|
| Halogen-free jacket | | | | | |
| 2170476 | ETHERLINE® CAT.7 H | 4 x 2 x AWG22/1 | 9.0 | 53 | 99 |
| PUR outer sheath, halogen-free | | | | | |
| 2170475 | ETHERLINE® Cat.7 P | 4 x 2 x AWG22/1 | 9.0 | 53 | 91 |
| PVC outer sheath | | | | | |
| 2170474 | ETHERLINE® Cat.7 Y | 4 x 2 x AWG22/1 | 9.0 | 53 | 98 |

Photographs 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 462
- EPIC® DATA 90 RJ45 Cat.6_A refer to page 463
- EPIC® DATA AX RJ45 Cat.6_A IP68 refer to page 463
- EPIC® DATA M12X refer to page 465
- EPIC® DATA CCR FA refer to page 466