



ETHERLINE® CAT.6A + CAT.7

LAN cables for structured industrial cabling



Info

**Industrial Ethernet cable
For PROFINET applications
with 4 pairs
CAT.6A and Cat.7 qualified
for 10Gbit/s**

Benefits

- Screened against interference
- Industrial use
- Can be used for Industrial Ethernet in harsh industrial environments

Benefits

- for industrial secondary and tertiary cabling according to EN 50173-3 ISO/IEC 24702
- Fixed installation
- Can be used in dry or damp rooms
- For PROFINET applications type A

Product features

- PUR outer sheath is highly resistant to mineral oils and abrasion
- Robust, halogen-free outer sheath
- PVC sheath
- High-quality, double screening ensures high transmission reliability in areas with electromagnetic interference

Design

- 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)

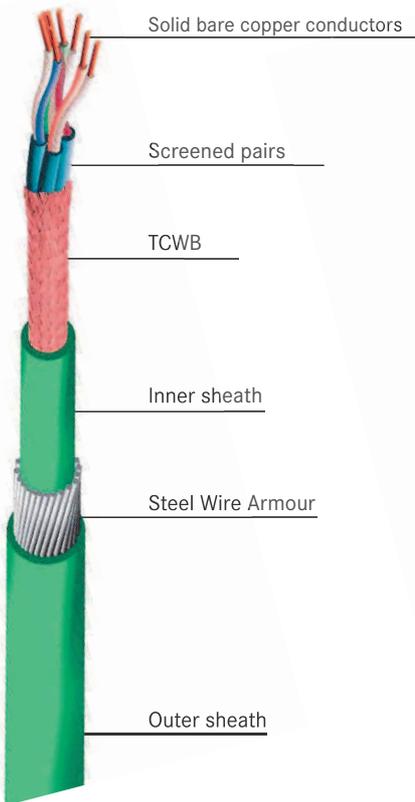
Technical data

- Peak operating voltage**
(not for power applications) 125 V
- Minimum bending radius**
Fixed installation: see data sheet
- Temperature range**
See data sheet
- Characteristic impedance**
100 ohm at 1 - 100 MHz

Article Number	Number of pairs and AWG per conductor	Approx Outer Diameter (mm)	Copper index (kg/km)	Approx Weight (kg/km)
Outer sheath: halogen-free, flame-retardant compound				
2170466	4 x 2 x AWG22/1	8.7	53.0	99
2170476	4 x 2 x AWG22/1	8.7	53.0	99
Outer sheath: PUR, halogen-free				
2170465	4 x 2 x AWG22/1	8.7	53.0	91
2170475	4 x 2 x AWG22/1	8.7	53.0	91
Outer sheath: PVC				
2170464	4 x 2 x AWG22/1	8.7	53.0	98
2170474	4 x 2 x AWG22/1	8.7	53.0	98

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Photographs are not to scale and do not represent detailed images of the respective products

AVAILABLE ALSO IN: Special armouring



ETHERLINE® ARMOUR SWA CAT. 7

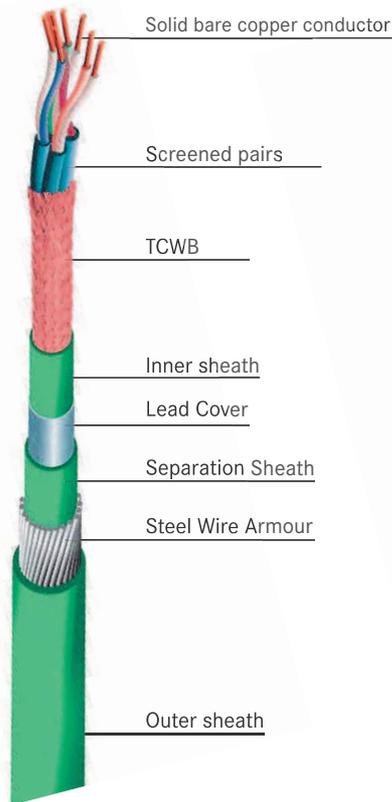
Lan cables with steel wire armouring (SWA)

■ Benefits

- High mechanical protection against accidental impacts
- Excellent rodent protection
- Suitable for direct burial
- UV and water-resistant

■ Application range

- Heavy industrial areas
- For indoor or outdoor use
- Methods of deployment: empty plastic pipes, ducts and trays



ETHERLINE® ARMOUR SWA LEAD CAT. 7

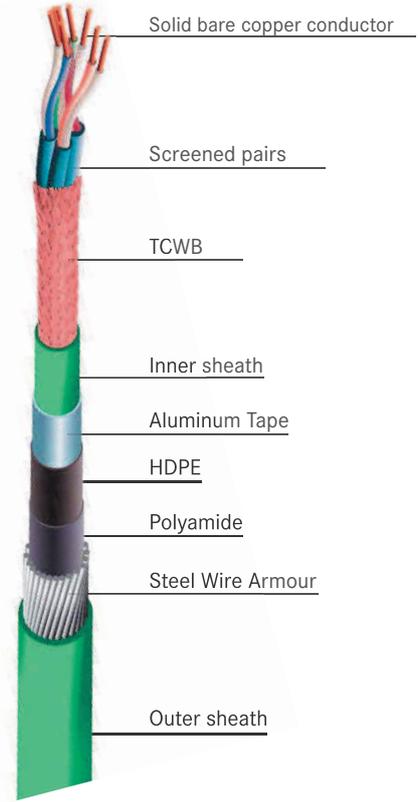
Lan cables with extruded lead armouring for chemical protection

■ Benefits

- Protection against hydrocarbons and other chemicals
- Excellent rodent protection
- High mechanical protection against accidental impacts

■ Application range

- Harsh oil and chemical environments
- Heavy industrial areas
- For direct burial, especially in the presence of oil and aggressive chemical substances



ETHERLINE® ARMOUR SWA AL/HDPE/PA CAT. 7

Lan cables with aluminum tape and additional HDPE and PA sheaths for water and chemical protection

■ Benefits

- Aluminum tape acts as a barrier to prevent water penetration
- Cost-effective protection against hydrocarbons and other aggressive chemicals (EN 50288-7)
- High mechanical protection

■ Application range

- Harsh oil and chemical environments
- Heavy industrial areas
- For direct burial, especially in the presence of oil and aggressive chemical substances

Inner and outer sheath materials are based on the area of installation:

- For outdoors, PE or PVC is used
- For indoor use, where flame retardance is required, LSZH material is used

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