New

ETHERLINE® MARINE FRNC FC Cat.5

Info
- Certified for maritime applications

■ Benefits
- Can be used for Industrial Ethernet in harsh industrial environments
- For use in dry, damp and wet rooms

■ Application range
- Shipbuilding
- For PROFINET applications type B
- Suitable for EtherCAT and EtherNet/IP applications
- Onshore and offshore applications

■ Product features
- High flame retardancy in accordance with IEC 60332-3 and FT4
- CAT.5-Performance
- Fast Connect (FC) cable design
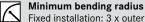
■ Norm references / Approvals
- CMG UL/CSA approval 75°C or PLTC, Sun Res

■ Product make-up
- Fine-wire strand made of tinned-copper wires
- Colour-coded in accordance with PROFI-NET for Cat.5 apllications
- Star quad
- Inner sheath: thermoplastic copolymer (FRNC)
- SF/UTP: copper braid and foil screening as overall screening
- Halogen-free and flame-retardant FRNC outer sheath
- Colour: green (based on RAL 6018)
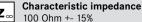
■ Technical data

⚡ **Peak operating voltage**
(not for power applications) 125 V

◠ **Minimum bending radius**
Fixed installation: 3 x outer diameter
Flexing: 7.5 x outer diameter

🌡 **Temperature range**
Operating temperature: –25°C to +70°C
During installation: 0 °C to +50 °C

Z∞ Characteristic impedance
100 Ohm +- 15%

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
2170889	ETHERLINE® MARINE FRNC FC CAT.5	2 x 2 x AWG22/7	6.5	32.0	68

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

■ Accessories
- Connector RJ45 Cat.5e for Profinet refer to page 423
- BUS M12 connectors that can be assembled
- FC STRIP stripping tool refer to page 912

New

ETHERLINE® FIRE Cat.5e PH60

Info
- System integrity for at least 60 minutes in the event of fire

LAPP KABEL STUTTGART ETHERLINE® FIRE Cat.5e 4x2xAWG24/1

■ Benefits
- Ensures that the cable can still transmit data during and after a fire (according to IEC 60331-25)
- High-quality, double screening ensures high transmission reliability in areas with electromagnetic interference

■ Application range
- In industrial areas that use fire as a tool
- Highly combustible or fire-prone areas
- For fixed installation
- For indoor use

■ Product features
- Fire behaviour:
  - Halogen-free (IEC 60754-1 & EN50267-2-1)
  - Flame-retardant (IEC 60332-1)
  - Fire retardant (IEC 60332-3-24)
  - Low smoke density (IEC 61034-2)
  - Circuit integrity (EN500200); 60 min
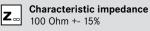- Meets the requirements according to CAT.5e, ISO/IEC 11801 and EN 50173, Class D

■ Product make-up
- Solid, bare, single-wire copper conductor
- Core insulation: Based on Polyolefin
- Each insulation will be wrapped with a special tape (anti-fire barrier)
- Twisting: 2 twisted-pair cores, stranding from 4 pairs
- SF/UTP: copper braid and foil screening as overall screening
- Halogen-free and flame-retardant FRNC outer sheath, colour: red (similar to RAL3000)

■ Technical data

⚡ **Peak operating voltage**
(not for power applications) 125 V

◠ **Minimum bending radius**
Fixed installation: 15 x cable diameter

🌡 **Temperature range**
Operation: –20 °C to +70 °C

Z∞ Characteristic impedance
100 Ohm +- 15%

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
2170904	ETHERLINE® FIRE Cat.5e PH60	4 x 2 x AWG23/1	8.3	24.0	75

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