

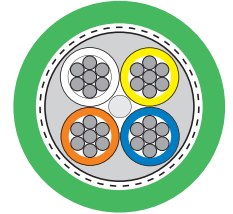


# ETHERLINE® MARINE FRNC FC CAT.5

Flexible application

**Info**

- Certified for maritime applications
- Flexible use in conjunction with light mechanical stress



### Benefits

- Can be used for Industrial Ethernet in harsh industrial environments
- For use in dry, damp and wet rooms
- Premium screening against electromagnetic interference
- 2pair: 10/ 100 Mbit/s for Industrial Ethernet

### Application range

- Shipbuilding
- Wiring of machines, tools, devices, appliances and control cabinets
- Suitable for EtherCAT and EtherNet/IP applications
- Onshore and offshore applications
- Max. cable length for 100 Mbit/s is 85 m

### 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 certification 75 °C or PLTC, Sun Res
- Flame-retardant according to CSA FT4 UL Vertical-Tray Flame Test

### Product Make-up

- Fine-wire strand made of tinned-copper wires
- Colour-coded in accordance with PROFINET for Cat.5 applications
- Star quad
- Inner sheath: thermoplastic copolymer (FRNC)
- SF/UTP: braid of tinned copper wire and plastic laminated aluminum foil as overall screening
- Halogen-free and flame-retardant FRNC outer sheath
- Colour: green (based on RAL 6018)

### Technical data

- Classification ETIM 5/6**  
ETIM 5.0/6.0 Class-ID: EC000830  
ETIM 5.0/6.0 Class-Description: Data cable
- Peak operating voltage**  
(not for power applications) 125 V
- Minimum bending radius**  
Fixed installation: 3 x outer diameter  
Flexing: 7.5 x outer diameter
- Characteristic impedance**  
100 Ω ± 15%
- Temperature range**  
Operating temperature: -25 °C to +70 °C  
During installation: 0 °C to +50 °C

Article number	Article designation	Number of pairs and AWG per conductor	Core diameter in mm	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>ETHERLINE® MARINE FRNC FC CAT.5</b>						
2170889	ETHERLINE® MARINE FRNC FC CAT.5	2 x 2 x AWG22/7	1.5	6.5	32	68

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges. PROFINET® is a registered trademark of the PNO (PROFIBUS user organisation). Detailed data sheets are available upon request. Please specify the type/dimensions of the required cable. Photographs and graphics are not to scale and do not represent detailed images of the respective products.

### Accessories

- EPIC® DATA PN AX RJ45 refer to page 458
- EPIC® DATA PN 90 RJ45 refer to page 458
- EPIC® DATA M12D refer to page 462
- KNIPEX Elektronik Super Knips® refer to page 983
- FC STRIP stripping tool refer to page 986