

FIRECEL LAN 5e

F/UTP FRNC-LSZH fire resistant 4x2xAWG23/1 Cat.5e (up to 100 MHz)



APPLICATIONS

Signal transmission, indoor installation in places where in case of fire people are exposed to serious risks for emission of smoke, toxic and corrosive gases and where you want to avoid damage to facilities, equipment, goods. This type of cable is used in structured cabling for computer networks such as Ethernet. The cable standard provides performance of up to 100 MHz and is suitable for 10BASE-T, 100BASE-TX (Fast Ethernet), and 1000BASE-T (Gigabit Ethernet). When combined with GG45 or RJ45, the max permanent length is 110 m @100 MHz

OPERATING TEMPERATURE

-20°C to 70°C

MINIMUM BENDING RADIUS

15 times the outer diameter

CABLE CONSTRUCTION

Conductors

Plain annealed copper wire, solid AWG23/1

Insulation

Polyolefin

Fire barrier

Special mineral glass tape, wrapped on each insulated conductor

Twisting

The insulated cores shall be twisted in pairs

Cabling

The pairs are cabled together around a central cross separator filler and wrapped with glass fibre tape

Overall screen

Aluminium/polyester tape, Al surface outside in contact with a tinned copper drain wire AWG 26/1

Outer sheath

LSZH thermoplastic material, red colour

Nom. Outer diameter

8,6 mm

COLOUR CODE TO HD 308

1st pair: ● / ●

2nd pair: ● / ●

3rd pair: ● / ●

4th pair: ● / ●

APPLICABLE STANDARDS

Standard reference IEC 61156-5; EN 50288-2-1; EN 50289-4-16; ISO/IEC 11801; EN 50173; EN 50200

Flame retardant IEC 60332-1-2

Fire retardant IEC 60332-3-24 (cat. C)

Fire resistant BS EN 50200 (class PH120)

Acid gas emission: BS EN 60754-1

BS EN 60754-2

Smoke density BS EN 61034-2

ELECTRICAL CHARACTERISTICS

Max DC conductor resistance 94,2 Ω/km

Max operating voltage 125 Vac

Min insulation resistance 2,0 GΩ x km

Capacitance @800 Hz 65 pF/m

Characteristic Impedance 100 Ω (± 15%)

Velocity of propagation 66%

Delay skew 20 nsec/100 m