

## FIRECEL LAN 6

SF/UTP FRNC-LSZH fire resistant 4x2xAWG22/1 Cat.6 (up to 250 MHz)



LPCB ref. 217m

For the scope of the LPCB Approval see [www.redbooklive.com](http://www.redbooklive.com)

### 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.

### OPERATING TEMPERATURE

-20°C to 70°C

### MINIMUM BENDING RADIUS

15 times the outer diameter

### CABLE CONSTRUCTION

#### Conductors

Plain annealed copper wire, solid AWG22/1

#### Insulation

Polyolefin

#### Fire barrier

Special mineral glass tape, wrapped on each insulated conductor

#### Twisting

The insulated cores shall be twisted in pairs and wrapped with glass fibre tape.

#### Cabling

The pairs are cabled together around a central cross separator filler

#### Overall screen

Copper/polyester tape, outside in contact with a bare copper braid .

#### Outer sheath

LSZH thermoplastic material, red colour

#### Nom. Outer diameter

10.6 mm

### COLOUR CODE TO HD 308

1st pair: ● ○/●

2nd pair: ● ○/●

3rd pair: ● ○/●

4th pair: ● ○/●

### APPLICABLE STANDARDS

**Standard reference** IEC 61156-5; EN 50288-5-1; 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** 59,4 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