# F/UTP Category 6 LSZH Cable Dca Class - L

**F/UTP Category 6, 4 pairs, LSZH 500m reel**



**Nexans Ref.:** 10570149
**Country Ref.:** TR
**EAN 13:** 8680969828734

## FIRE PERFORMANCE CLASS

$D_{ca}$

$D_{ca}$-s1,d1,a1

## CONTACT

Sales & Marketing
Phone: +90 212 266 0160
alper.altinok@nexans.com

- Complies to latest Cat 6 standard version
- Guaranteed performance to 250MHz
- Patented central cross technology for maintaining geometry and performance
- Supports Gigabit Ethernet
- RoHS EC Directive 2002/95/EC compliant
- LSZH sheath

## STANDARDS

**Product** ANSI/TIA-568-C.2; EN 50173-1; IEC 61156-5

**International** ISO/IEC 11801

## APPLICATION

Nexans F/UTP Category 6 cables are the standard 250MHz offering from Nexans. Manufactured in accordance with TIA/EIA 568-C.2, EN 50173-1, ISO/IEC 11801 and IEC 61156-5 requirements, the F/UTP cable is the best choice to support all Class E applications like Ethernet, Fast Ethernet, Gigabit Ethernet, … The Cat 6 F/UTP cables are suitable for basic voice and data installations up to 250 MHz.

### Performance

Nexans Category 6 cables are compliant with the requirements of the TIA/EIA 568-C.2, EN 50173-1, ISO/IEC 11801 and IEC 61156-5. Used with Cat 6 connectivity, these cables are compliant with Class E link requirements as described in EN 50173 Edition 2 and ISO 11801.

### Features

- Central cross for improved geometry and performance
- Central cross member reduces risk of crushing or kinking
- Compact design for minimum volume in ducts or trails.
- LSZH sheath
- Design for easy and quick installation
- Solid 23 AWG cable
- RoHS EC Directive 2002/95/EC compliant
- Supports Gigabit Ethernet
- Complies to latest Cat 6 standards

Ambient installation T°C range
**0 ... 50 °C**

Flame retardant
**IEC 60332-1**

Min. dynamic operating bending rad.
**58.4 mm**

Static bending rad.
**29.2 mm**

Operating temp.
**-20 ... 60 °C**



All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

# F/UTP Category 6 LSZH Cable Dca Class - L

**F/UTP Category 6, 4 pairs, LSZH 500m reel**

## CHARACTERISTICS

| | |
|---|---|
| **Construction characteristics** | |
| Type of cable | F/UTP |
| Insulation | Solid polyethylene |
| Screen | Aluminium-Polyester tape + tinned copper drain wire |
| Outer sheath | LSZH |
| Colour | Blue |
| **Dimensional characteristics** | |
| Approximate weight | 53 kg/km |
| Conductor cross-section (AWG/KCMIL) | 23 |
| Conductor diameter | - mm |
| Diameter over insulation | 0.97 mm |
| Nominal outer diameter | 7.3 mm |
| **Electrical characteristics** | |
| Characteristic impedance | 100 Ohm |
| Max. DC resistance of the conductor at 20°C | 93.8 Ohm/km |
| Mutual capacitance | 56 nF/km |
| **Transmission characteristics** | |
| Attenuation, max. 250 MHz | 32.8 dB/100m |
| Attenuation Crosstalk Ratio, 250MHz | 6.3 dB/100m |
| Powersum Near End Crosstalk, 250MHz | 36.3 dB |
| Powersum Equal Level Far End Crosstalk, 250MHz | 19 dB |
| Return loss, 250MHz | 17.3 dB |
| Coupling attenuation at 30 MHz | 45 dB |
| Near End Crosstalk @ 250 MHz | 39.3 dB |
| Nominal Velocity of Propagation (NVP) | 68 % |
| Propagation delay, max. 100 MHz | 537.6 ns/100m |
| Skew | 45 ns/100m |
| **Usage characteristics** | |
| Packaging | Reel |
| Length | 500 m |
| Ambient installation temperature, range | 0 ... 50 °C |
| Category | Cat. 6 |
| Component function | Cable |
| Flame retardant | IEC 60332-1 |
| Minimum dynamic operating bending radius | 58.4 mm |
| Minimum static operating bending radius | 29.2 mm |
| Operating temperature, range | -20 ... 60 °C |



All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.