U/UTP Category 6 LSZH Cable Dca Class - 24AWG

U/UTP Category 6, 4 pairs, LSZH 305m box



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- 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 sheathed

STANDARDS

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

International ISO/IEC 11801

APPLICATION

Nexans U/UTP Category 6 cables are the mid-range 250MHz offering from Nexans. Manufactured in accordance with ISO IEC 61156-5 requirements, the U/UTP cable is the best choice to support all Class E applications like Ethernet, Fast Ethernet, Gigabit Ethernet, … The Cat 6 U/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 EN 50288 and ISO IEC 61156-5 standards. Used with Cat 6 connectivity, these cables are compliant with Class E link requirements as described in EN 50173 Edition 2 and ISO 11801 Edition 2 standards.

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 24 AWG cable
- RoHS EC Directive 2002/95/EC compliant



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



Flame retardant
IEC 60332-1



Min. dynamic operating bending rad.
24.0 mm



Static bending rad.
48 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.

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CHARACTERISTICS

Construction characteristics	
Type of cable	UTP
Outer sheath	LSZH
Colour	Orange
Dimensional characteristics	
Approximate weight	36.5 kg/km
Conductor diameter	- mm
Diameter over insulation	0.97 mm
Nominal outer diameter	5.5 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	5.5 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	536 ns/100m
Skew	45 ns/100m
Usage characteristics	
Packaging	Box
Length	305 m
Ambient installation temperature, range	0 ... 50 °C
Category	Cat. 6
Component function	Cable
Flame retardant	IEC 60332-1
Minimum dynamic operating bending radius	24.0 mm
Minimum static operating bending radius	48 mm
Operating temperature, range	-20 ... 60 °C

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