Essential-6 Cable

Essential-6 U/UTP Cat 6 LSZH 23AWG 305m reel in box

Nexans Ref.: N100.170

- · Unshielded construction
- Complies to latest Category 6 standards
- · Central cross maintains geometry and performance
- Supports Class E applications up to 250 MHz.

DESCRIPTION

Application

The Nexans Essential-6 cables are manufactured and tested to the latest Category 6 specifications. They are compatible with the complete Essential-6 modular and PCB connectivity range. When installed in conjunction with Essential-6 outlets and patch panels, a 25 year Class E Link Warranty can be obtained from the Nexans e-service

Design

The conductors are 23 AWG solid copper wires . The central cross filler keeps the pairs in place and reduces the risks of losing performance when bending the cable. The cables are Orange LSZH sheath have flame retardant properties compliant with IEC 60332-1

Performance

With guaranteed performance to 250 MHz, Nexans Essential-6 cables are compliant with the requirements of the International, European and American cable standards, including ISO/IEC 11801, IEC 61156-5, EN 50173, EN 50288 and TIA/EIA 568-C.2.



essential-6

STANDARDS

International EN 50288; IEC 61156-5; ISO/IEC 11801-1

National ANSI/TIA-568-C.2



Ambient installation T°C range





Flame retardant IEC 60332-1



Fire retardant



IFC 61034

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CHARACTERISTICS

C	Construction characteristics	
	Type of cable	U/UTP
	Outer sheath	LSZH
	Colour	Orange
	Dimensional characteristics	
	Diameter over insulation	1.0 mm
	Conductor cross-section (AWG/KCMIL)	23
	Nominal outer diameter	6.1 mm
E	Electrical characteristics	
	Characteristic impedance	100 Ohm
	Mutual capacitance	- nF/km
	Max. DC resistance of the conductor at 20°C (Ohm/km)	
T	ransmission characteristics	
	Attenuation Crosstalk Ratio, 250MHz	5.5 dB/100m
	Nominal Velocity of Propagation (NVP)	69 %
	Propagation delay, max. 100 MHz	536 ns/100m
	Skew	45 ns/100m
	Coupling attenuation at 30 MHz	
ι	Jsage characteristics	
	Category	Cat. 6
	Range	essential-6
	Minimum Bend Radius - During Installation (under Tension)	49 mm
	Minimum Bend Radius - Installed	25 mm
	Ambient installation temperature, range	-10 60 °C
	Operating temperature, range	-20 60 °C
	Flame retardant	IEC 60332-1
	Fire retardant	
	Smoke density	IEC 61034
	Length	305 m
	Packaging	Reel in a box
	Field of application	Indoor



