

e-ssential UTP CAT5e 0,5MM LSZH BOX 305M

Nexans ref.: N100.551

Netcomp ref: NE5L

- UTP, FTP & S-FTP construction
- Complies to latest Cat 5E standards
- Supports Gigabit Ethernet
- Guaranteed performance to 100MHz
- Single foil offers EMC performance
- In single and shotgun cable construction

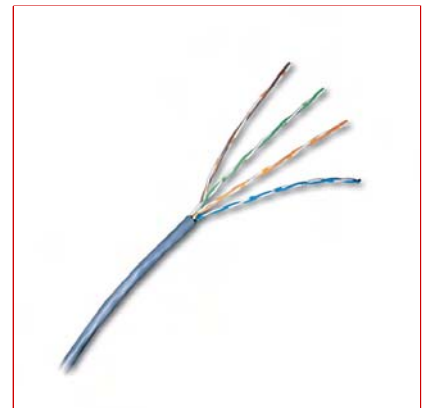
Description

Application

Category 5e cables are the standard 100MHz offering from Nexans. Manufactured in accordance with TIA 568-B and IEC 61156-5, they are suitable for basic voice & data installations. Available in Light Grey PVC or Orange LSZH.

Performance

Nexans Category 5e cables are compliant with the requirements of the TIA 568-B and IEC 61156-5.

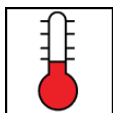


essential

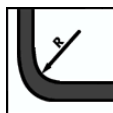
Standards

International ISO/IEC 11801

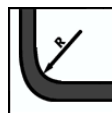
National TIA/EIA-568-B.2



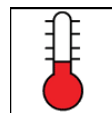
Operating temperature, range
-20 .. 60 °C



Min. dynamic operating bending rad.
20.0 mm



Min. static operating bending rad.
40.0 mm



Ambient install temp, range (°C)
0 .. 50 °C



Electro magnetic interference resistance
No



Flame retardant
IEC 60332-1

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Characteristics

Construction characteristics

Type of cable	UTP
Colour	Orange
Screen	Unshielded
Outer sheath	LSZH

Dimensional characteristics

Conductor diameter	0.5 mm
Diameter over insulation	0.9 mm
Nominal outer diameter (mm)	4.9 mm
Approximate weight (kg/km)	30 kg/km

Electrical characteristics

Characteristic impedance	100 Ohm
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Transmission characteristics

Velocity of propagation	68.0 %
Propagation delay, max. 100 MHz	536 ns/100m

Usage characteristics

Category	Cat. 5e
Range	essential
Component function	Cable
Operating temperature, range	-20 .. 60 °C
Minimum dynamic operating bending radius	20.0 mm
Minimum static operating bending radius	40.0 mm
Length (m)	305 m
Fire load (MJ/km)	400 MJ/km
Ambient installation temperature, range (°C)	0 .. 50 °C
Electro magnetic interference resistance	No
Flame retardant	IEC 60332-1
Packaging	Box

Electrical Performance

all values are specified at 20°C

Frequency	Attenuation dB/100m	NEXT dB	ACR dB/100m	PS NEXT (*) dB	ELFEXT dB/100m	PSELFEXT dB/100m	RL dB
1	2.1	65.3	63.2	62.3	63.8	61.0	20.0
4	4.0	56.3	52.3	53.3	51.7	49.0	23.0
10	6.3	50.3	44.0	47.3	43.8	41.0	25.0
16	8.0	47.3	39.3	44.3	39.7	36.9	25.0
20	9.0	45.8	36.8	42.8	37.7	35.0	25.0
31.25	11.4	42.9	31.5	39.9	33.9	31.1	23.6
62.5	16.5	38.4	21.9	35.4	27.9	25.1	21.5
100	21.3	35.3	14.0	32.3	23.8	21.0	20.1

(*) Dual cable versions additionally comply to the additional PSNEXT requirements for multi-unit cables as specified in the relevant TIA and IEC cable standards.