

Essential Cat 5e Cable

Essential U/UTP Cat 5e 0,5MM PVC 1000M REEL

Nexans ref.: N100.562

- U/UTP, F/UTP & SF/UTP construction
- Complies to latest Cat 5E standards
- Supports Gigabit Ethernet
- Guaranteed performance to 100MHz
- Single foil offers EMC performance

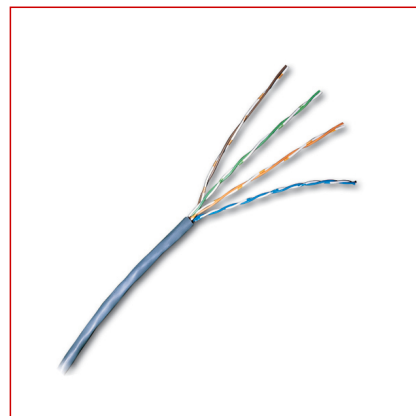
Description

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



Min. dynamic operating
bending rad.
40.0 mm



static bending
rad.
20 mm



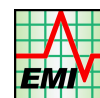
Ambient installation T°C
range
0 .. 50 °C



Operating temp.
range
-20 .. 60 °C



Flame retardant
IEC 60332-1



Electro magnetic interference
resistance
No

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Characteristics

Construction characteristics	
Type of cable	U/UTP
Outer sheath	PVC
Colour	Grey
Screen	Unshielded
Dimensional characteristics	
Conductor diameter	0.5 mm
Diameter over insulation	0.9 mm
Nominal outer diameter	4.9 mm
Approximate weight	30 kg/km
Electrical characteristics	
Characteristic impedance	100 Ohm
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
Minimum dynamic operating bending radius	40.0 mm
Minimum static operating bending radius	20 mm
Ambient installation temperature, range	0 .. 50 °C
Operating temperature, range	-20 .. 60 °C
Fire load	400 MJ/km
Flame retardant	IEC 60332-1
Electro magnetic interference resistance	No
Length	1000 m
Packaging	Reel

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
4	4.1	56.3	52.2	53.3	51.7	49.0	23.0
10	6.5	50.3	43.8	47.3	43.8	41.0	25.0
16	8.3	47.2	38.9	44.3	39.7	36.9	25.0
20	9.3	45.8	36.5	42.8	37.7	35.0	25.0
31.25	11.7	42.9	31.2	39.9	33.9	31.1	23.6
62.5	17.0	38.4	21.4	35.4	27.9	25.1	21.5
100	22.0	35.3	13.3	32.3	23.8	21.0	20.1

Contact

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