Contact
LAN Systems (Nexans Cabling Solutions)
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Essential Cat 5e Cable

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

Nexans ref.: N100.462

- F/UTP single foil construction
- Complies to latest Cat 5E standards
- Supports Gigabit Ethernet
- Guaranteed performance to 100MHz

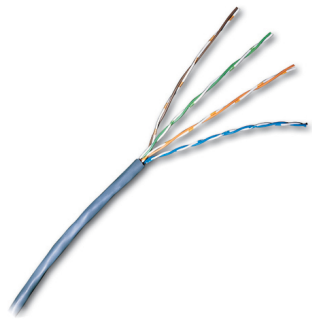
Description

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.	static bending rad.	Ambient installation T°C range	Operating temp. range	Flame retardant	Electro magnetic interference resistance
48.0 mm	24 mm	0 .. 50 °C	-20 .. 60 °C	IEC 60332-1	Yes

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	F/UTP
Outer sheath	PVC
Colour	Grey
Screen	Aluminium foil
Dimensional characteristics	
Conductor diameter	0.5 mm
Diameter over insulation	1.06 mm
Nominal outer diameter	5.9 mm
Approximate weight	42 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	48.0 mm
Minimum static operating bending radius	24 mm
Ambient installation temperature, range	0 .. 50 °C
Operating temperature, range	-20 .. 60 °C
Fire load	550 MJ/km
Flame retardant	IEC 60332-1
Electro magnetic interference resistance	Yes
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

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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.

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