

NEXANS *e*ssential

Category 5e

UTP 4 pair and 2x4 pair Data Cables

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 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.

ACR figures are shown for comparative purposes between different Nexans products. Actual performance is shown overleaf.

Guarantees

- Category 5e (IEC 61156-5)
- Category 5e (TIA 568-B)
- 5 years product warranty.
- 15 years Link Certificate available when installed as part of a Nexans Essential system.

Installation

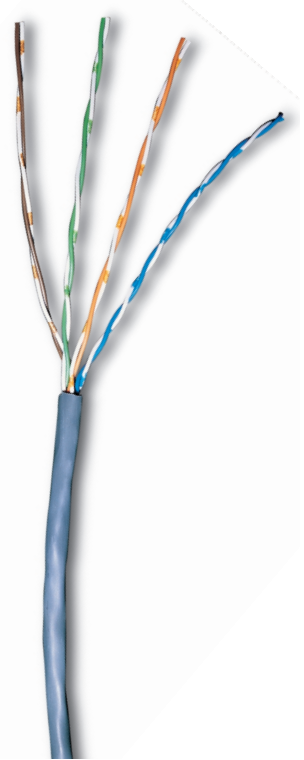
Nexans Cat 5e cables are designed as installer friendly products for basic installations.

Minimum Bend Radius :

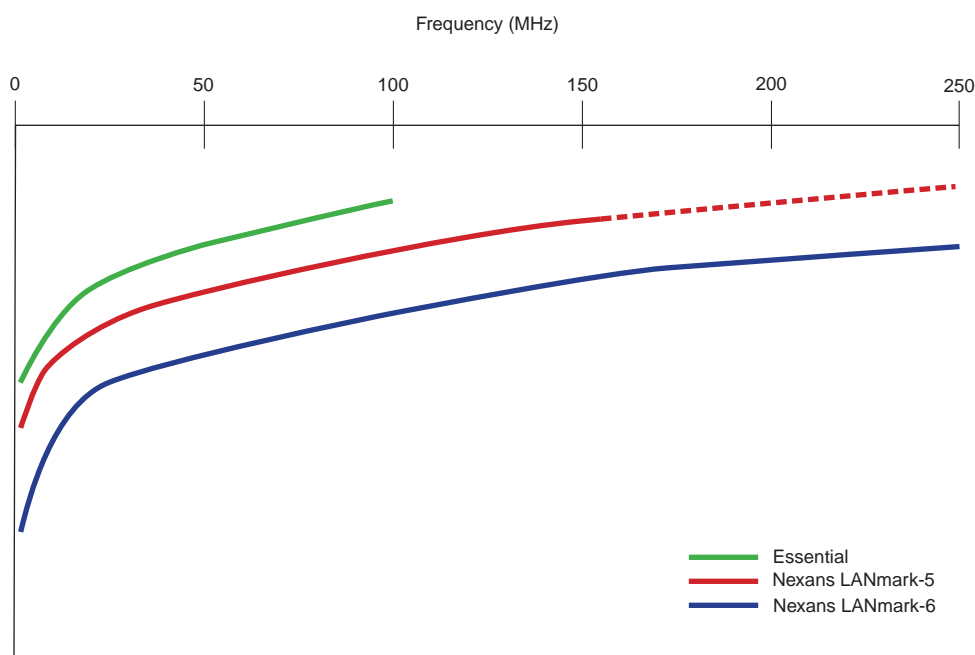
operation	20 mm
installation	40 mm

Max. Installation tension :

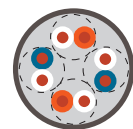
UTP 4 pair	80N
UTP Shotgun 2x4 pair	160N



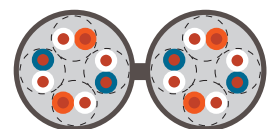
ACR Comparison



UTP 4 pair



UTP 2x4 pair shotgun



Category 5e

All data subject to change
without prior notice

UTP 4 pair and 2x4 pair Data Cables

Electrical Performance

Frequency MHz	Attenuation dB/100 m	NEXT pr/pr dB	ACR dB/100 m	PS NEXT (*) dB	EL-FEXT pr/pr dB/100 m	PS EL-FEXT dB/100 m	RL dB
1	2,1	65,3	63,2	62,3	63,8	61.0	20
4	4,0	56,3	52,3	53,3	51,7	49.0	23
10	6,3	50,3	44.0	47,3	43,8	41.0	25
16	8,0	47,3	39,3	44,3	39,7	36,9	25
20	9,0	45,8	36,8	42,8	37,7	35.0	25
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

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

Other characteristics

Skew (ns/100m)	45
Velocity of propagation (%)	68%
Propagation delay @100 MHz (ns/100m)	<536
Characteristic impedance (Ohm)	100 ± 15
Coupling attenuation @ 30 MHz (dB)	45

Physical characteristics

	UTP	UTP shotgun
Conductor diameter(mm)	0,5	0,5
Insulation diameter (mm)	0,9	0,9
Cable diameter (mm)	4,9	5.0 x 12
Nominal cable weight (kg/km)	30.0	62.0

Environmental characteristics

	UTP	UTP shotgun
Temperature rating (installation)	0°C/+50°C	0°C/+50°C
Temperature rating (operation)	-20°C/+60°C	-20°C/+60°C
Flame retardant (IEC 332-1)	Yes	Yes
Fire load (MJ/km)	400	800

Part Numbers

Cable type	No of pairs	PART No	Sheath	Colour	Packing
UTP	4pr	100.561	PVC	Light grey	305m box
		100.564			500m reel
		100.562			1000m reel
		100.551	LSZH	Orange	305m box
		100.554			500m reel
		100.552			1000m reel
UTP Shotgun	2 x 4pr	100.563	PVC	Light Grey	500m reel
		100.553	LSZH	Orange	500m reel

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