

## LANmark-6 UTP Cat6 new PVC Box 305m

- Complies to latest Cat 6 standards
- Supports Class E applications
- Central cross member maintains geometry and performance
- Tested up to 350MHz

Nexans ref.: N100.617N

### Description

#### Application

LANmark-6 cable is the ultimate solution for a future proof network. It is specifically designed to support the exacting requirements for tomorrow's protocols, yet is fully backwards compatible with today's needs. It is the recommended cable for all forthcoming installations.

- 10baseT Ethernet
- 100baseTX Fast Ethernet
- 1000baseTX Gigabit Ethernet
- 155 MBit ATM
- 622 MBit ATM
- 1.2 Gbit ATM
- future class E applications

LANmark-6 is independently verified to exceed the requirements of the ISO/IEC 11801:2002 Category 6 requirements.

#### Performance

Tested to 350 MHz and with guaranteed performance to 250 MHz, Nexans LANmark-6 cables provide guaranteed headroom and bandwidth over and above the requirements of all international, european and american cable standards, including ISO/IEC 11801:2002, IEC 61156-5, EN 50173, EN 50288, TIA/EIA 568-B.2-1.

#### Installation

LANmark-6 is installed in exactly the same way as Category 5 cables. The C<sup>3</sup> central cross member reduces the risk of crushing and kinking.


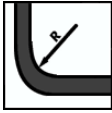
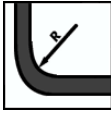
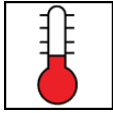



**LANmark-6**

### Standards

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

**National** TIA/EIA-568-B.2-1

				
Operating temperature, range -20 .. 60 °C	Minimum static operating bending radius 23.0 mm	Laying operation bending radius 45.0 mm	Ambient installation temperature, range 0 .. 50 °C	Flame retardant IEC 60332-1

Made for Andrew Garfield

Generated 08/06/04

<http://www.nexans.co.uk/e-service>

Page 1 / 3

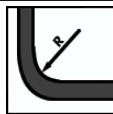
All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

## Contact

LAN Cabling Systems  
Tandy House, Felixstowe Road,  
Abbey Wood,  
SE2 9AA London  
United Kingdom  
Phone: 0208 557 3456  
mike.holmes@nexans.com



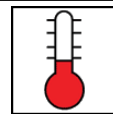
Operating temperature,  
range  
-20 .. 60 °C



Minimum static operating  
bending radius  
23.0 mm



Laying operation bending  
radius  
45.0 mm



Ambient installation  
temperature, range  
0 .. 50 °C



Flame retardant  
IEC 60332-1

Nexans ref.: N100.617N

## Characteristics

### Construction characteristics

Type of cable	UTP
Outer sheath	PVC
Colour	Grey

### Dimensional characteristics

Diameter over insulation	0.94 mm
Nominal outer diameter	5.6 mm
Approximate weight	35 kg/km
Gauge (AWG)	24

### Electrical characteristics

Max. DC-resistance of the conductor at 20° C	70 Ohm/km
Characteristic impedance	100 Ohm

### Transmission characteristics

Attenuation, max. 250 MHz	32.8 dB/100m
Near End Crosstalk, 250MHz	38.3 dB
Attenuation Crosstalk Ratio, 250MHz	5.5 dB/100m
Powersum Near End Crosstalk, 250MHz	36.3 dB
Powersum Equal Level Far End Crosstalk, 250Mhz	19 dB
Return loss, 250MHz	17.3 dB
Skew	30 ns/100m
Coupling attenuation at 30 MHz	45 dB
Mutual capacitance	56 nF/km
Velocity of propagation	68.0 %
Propagation delay, max. 100 MHz	536 ns/100m

### Usage characteristics

Packaging	Box
Length	305 m
Operating temperature, range	-20 .. 60 °C
Minimum static operating bending radius	23.0 mm
Laying operation bending radius	45.0 mm
Ambient installation temperature, range	0 .. 50 °C
Category	Cat. 6
Flame retardant	IEC 60332-1
Component function	Cable