

## LANmark-6 F1TP Dual LSZH 500m reel

Nexans ref.: N100.623

- Complies to Category 6 standards
- Guaranteed performance to 250MHz
- Supports Class E applications
- Central cross member maintains geometry and performance

### Description

#### Application

LANmark-6 F1TP is designed to provide compliance to the requirements of the ISO/IEC 11801:2002 Category 6. It supports all Class E applications including but not limited to:

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

#### Performance

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 F1TP is a screened cable offering a foil which has metallic side facing outwards. This eases installation by providing direct contact with the metal rear cover and clip-on in connectors and patch panels. The C<sup>3</sup> central cross member reduces the risk of crushing and kinking.

#### Guarantees

Nexans LANmark-6 cable is covered by the guarantee that it is Category 6 and by a parts and labour warranty as described in the Nexans Certified System Warranty. When used together with LANmark-6 products, a full 20 years LANmark E channel warranty can be obtained.

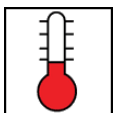


**LANmark-6**

#### Standards

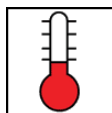
**International** EN 50288; IEC 61156-5; ISO/IEC 11801

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



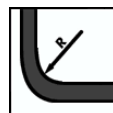
Operating temperature, range

-10 .. 40 °C



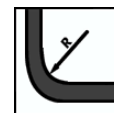
Ambient installation temperature, range

-10 .. 50 °C



Minimum static operating bending radius

29.0 mm



Laying operation bending radius

57.0 mm



Flame retardant

IEC 60332-1

## LANmark-6 F1TP Dual LSZH 500m reel

Nexans ref.: N100.623

### Characteristics

#### Construction characteristics

Type of cable	FTP Shotgun
Outer sheath	LSZH
Colour	Orange

#### Dimensional characteristics

Diameter over insulation	1.13 mm
Nominal outer diameter	14.2 mm
Approximate weight	104 kg/km
Conductor cross-section (AWG)	24

#### Electrical characteristics

Mutual capacitance	56 nF/km
Max. DC-resistance of the conductor at 20° C	70 Ohm/km
Characteristic impedance	100 Ohm
Transfer impedance	45

#### Transmission characteristics

Attenuation, max. 250 MHz	32.8 dB/100m
Near End Crosstalk @ 250 MHz	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
Velocity of propagation	68.0 %
Coupling attenuation at 30 MHz	80 dB
Propagation delay, max. 100 MHz	536 ns/100m

#### Usage characteristics

Packaging	Reel
Length	500 m
Operating temperature, range	-10 .. 40 °C
Ambient installation temperature, range	-10 .. 50 °C
Minimum static operating bending radius	29.0 mm
Laying operation bending radius	57.0 mm
Category	Cat. 6
Flame retardant	IEC 60332-1
Component function	Cable

## Electrical Performance

All values are specified at 20°C

Frequency	Attenuation dB/100m	NEXT dB	ACR dB/100m	PSNEXT(*) dB	ELFEXT dB/100m	PSELFEXT dB/100m	RL dB
<b>1</b>	2.0	74.3	72.3	72.3	70.0	67.0	20.0
<b>4</b>	3.8	65.3	61.5	63.3	58.0	55.0	23.0
<b>10</b>	6.0	59.3	53.3	57.3	50.0	47.0	25.0
<b>16</b>	7.6	56.2	48.6	54.3	45.9	42.9	25.0
<b>20</b>	8.5	54.8	46.3	52.8	44.0	41.0	25.0
<b>31.25</b>	10.7	51.9	41.2	49.9	40.5	37.5	23.6
<b>62.5</b>	15.4	47.4	32.0	45.4	34.1	31.1	21.5
<b>100</b>	19.8	44.3	24.5	42.3	30.0	27.0	20.1
<b>155</b>	25.2	41.4	16.2	39.5	26.2	23.2	18.8
<b>200</b>	29.0	39.8	10.8	37.8	24.0	21.0	18.0
<b>250</b>	32.8	38.3	5.5	36.3	22.0	19.0	17.3

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