

LANmark-7 CAT7 STP 23 AWG LSHF ORANGE 1000m REEL

Nexans ref.: N100.371

- Exceeds Category 7 to 1000MHz
- Optimised for use with LANmark-7 GG45 connector
- Easy to install
- Suitable for CaTV and Cable Sharing Applications

Description

Specification

LANmark-7 cable is a 4pr STP with individual pair foils and an overall braid offering superior performance to 1000MHz. It is fully compliant with the Category 7 standards and when installed together with the GG45 LANmark-7 connector as a system is guaranteed to exceed even the toughest channel requirements.

Application

LANmark-7 is the highest performing standardised solution in the market and will support all current and planned data applications.

- All Ethernet applications including
- 1000Base-T
- 1000Base-TX
- 10GBase-T
- CaTV up to 862MHz
- Any future Class F application
- Cable sharing applications

Installation

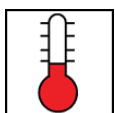
Installation is one of the unique features of LANmark-7 cable. Extra attention has been paid to ensure screen coverage is maintained both during and after installation. The cable is been designed specifically to offer both optimum performance and ease of termination when used in conjunction with the LANmark-7 GG45 connector.



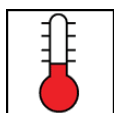
LANmark-7

Standards

International EN 50173; EN 50288-4-1; ISO/IEC 11801; ISO/IEC 61156-5



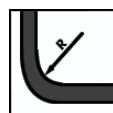
Ambient install temp, range (°C)
-5 .. 70 °C



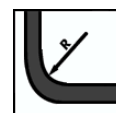
Operating temp. range
-20 .. 70 °C



Electro magnetic interference resistance
Yes



Laying operation bending rad.
62.0 mm



Min. static operating bending rad.
31.0 mm

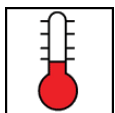


Flame retardant IEC 60332 Part 3
Cat. C

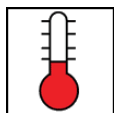
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Contact

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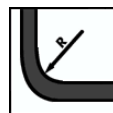
Ambient install temp.
range (°C)
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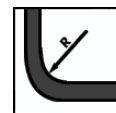
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Characteristics

Construction characteristics

Type of cable	STP
Screen	Aluminium tape and copper braid
Drain wire	No
Sheath colour	Orange
Outer sheath	LSZH

Dimensional characteristics

Approximate weight (kg/km)	61 kg/km
Conductor cross-section (AWG)	23
Diameter over insulation	1.45 mm
Number of pairs	4
Nominal outer diameter (mm)	7.5 mm

Electrical characteristics

Characteristic impedance	100 Ohm
Max. transfer impedance at 30 MHz (Ohm/km)	5 Ohm/km
Mutual capacitance (nF/km)	56 nF/km
Max. DC-resistance of the conductor at 20° C	80 Ohm/km

Transmission characteristics

Velocity of propagation	80.0 %
Propagation delay, max. 100 MHz	536 ns/100m

Mechanical characteristics

Maximum pulling force by laying	0.21 kN
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Usage characteristics

Category	Cat. 7
Ambient installation temperature, range (°C)	-5 .. 70 °C
Operating temperature, range	-20 .. 70 °C
Electro magnetic interference resistance	Yes
Laying operation bending radius	62.0 mm
Minimum static operating bending radius	31.0 mm
Flame retardant	IEC 60332 Part 3 Cat. C
Fire load (MJ/km)	700 MJ/km
Length (m)	1000 m
Packaging	Reel
Field of application	Fix installations

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	
	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ
1	2.0	1.9	>80	100.0	78.0	98.1	>77	100.0	>80	92.0	>77	89.0	20.0	23.0
4	3.6	3.5	>80	100.0	76.4	96.5	>77	100.0	>80	91.0	>77	88.0	23.0	26.0
10	5.7	5.5	>80	100.0	74.3	94.5	>77	100.0	74.0	91.0	71.0	88.0	25.0	28.0

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16	7.2	7.0	>80	100.0	72.8	93.0	>77	100.0	69.9	91.0	66.9	88.0	25.0	28.0
20	8.1	7.8	>80	100.0	71.9	92.2	>77	100.0	68.0	91.0	65.0	88.0	25.0	28.0
31.25	10.1	9.9	>80	100.0	69.9	90.1	>77	100.0	64.1	91.0	61.1	88.0	23.6	26.6
62.5	14.5	14.1	75.5	100.0	61.0	85.9	72.5	98.0	58.1	79.0	55.1	76.0	21.5	24.5
100	18.5	18.0	72.4	95.0	53.9	77.0	69.4	93.0	54.0	71.0	51.0	68.0	20.1	23.1
155	23.4	22.7	69.6	90.0	46.2	67.3	66.6	88.0	50.2	63.0	47.2	60.0	18.8	23.1
200	26.8	26.0	67.9	86.0	41.1	60.0	64.9	84.0	48.0	60.0	45.0	57.0	18.0	23.1
250	30.2	29.4	66.5	83.0	36.3	53.6	63.5	81.0	46.0	57.0	43.0	54.0	17.3	23.1
300	33.3	32.5	65.3	80.0	32.0	47.5	62.3	78.0	44.5	55.0	41.5	52.0	17.3	22.0
600	48.9	47.6	60.8	69.0	11.9	21.4	57.8	67.0	38.4	45.0	35.4	42.0	17.3	20.3
1000	-	63.6	-	67.0	-	3.4	-	65.0	-	40.0	-	37.0	-	18.0

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