

LANmark-7A Skjermet Kabel (CPR)

LANmark-7A S/FTP AWG23 Kat 7A 1250MHz LSZH Orange 1000m

Kontakt

Nexans Cabling Solutions
firmapost@nexans.com

Nexans ref.: N100.371-OD

El. nummer: 1087797

- S/FTP konstruksjon
- Iht Kat 7A standarden klasse FA 1000 MHz
- Felles flettet skjerm og folie rundt hvert par
- Testet opp til 1600MHz

BESKRIVELSE

p>Description

LANmark-7A is a 4 pair S/FTP cable with individual pair foils and an overall braid offering superior performance up to at least 1250MHz. It is fully compliant with the latest Category 7A standard and offers even large headroom above the Cat 7A requirement. Due to this excellent electrical performance and positive ACR up to at least 1250MHz the cable supports the applications like 10GBASE-T as well as 25GBASE-T

Application

LANmark-7A is the highest performing standardised cabling solution in the market and will support all current Ethernet applications up to 25G and all planned applications using cabling up to Class FA.

- All Ethernet applications including
- 10/100/1000Base-T
- 1000Base-TX
- 10GBase-T
- 25GBase-T
- POE, POE+, POE++ (Draft)
- Cable sharing applications including CATV up to 862MHz
- Any future Class FA application

Installation

Ease of Installation is one of the main features of the LANmark-7A cable. Extra attention has been paid to ensure that the screen coverage is maintained and foils do not open during installation. The cable has been specially designed to be used in conjunction with the LANmark-7A GG45 12C connector.

To support the correct set-up of hand held analysers for installation testing, the actual cable NVP value is given in the cable's print legend.



LANmark-7A

YTELSESERKLÆRING

Brannklasse: D_{ca}-s2,d1,a1
i henhold til EN50575:2014
+A1:2016

STANDARDS

Internasjonal EN 50173;
EN 50288-4-1;
IEEE 802.3bt (PoE++); ISO/
IEC 11801; ISO/IEC 61156-5



Brannklasse
D_{ca}-s2,d1,a1



Blyfri
Ja



Ambient installation T*
C range
0 .. 50 °C



Operating temp.
-20 .. 60 °C



Flammehemmende
IEC 60332-1



Røyktetthet
IEC 61034-2



Korrosive gasser
IEC 60754-1, IEC
60754-2

Alle tegninger, design, spesifikasjoner, planer og informasjon om vekt, størrelse og dimensjoner i Nexans' tekniske eller kommersielle dokumentasjon er omtrentlig og er ikke bindende fra Nexans' side.

Generert 12.11.20 www.nexans.no Side 1 / 3

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EGENSKAPER

Konstruksjonsegenskaper

Kabeltype	S/FTP
Skjerm	Aluminium foil + tinned copper braiding
Jordtråd	Nei
Blyfri	Ja
Ytre kappe	LSZH
Kappefarge	Orange

Dimensjonsegenskaper

Antall par	4
Diameter over isolert leder	1,45 mm
Nominell ytre diameter	7,7 mm
Leder dimensjon (AWG)	23
Vekt (ca.)	61 kg/km

Elektriske egenskaper

Karakteristisk impedans	100 Ohm
Maks. transferimpedans v/ 30 MHz	50 Ohm/km
Gjensidig (par) kapasitans (nF/km)	45 nF/km
Maks ledermotstand DC v/ 20 °C	80 Ohm/km

Transmisjonsegenskaper

Skew	25 ns/100m
Hastighetsfaktor	82 %
Forplantnings forsinkelse, maks @ 100 MHz	536 ns/100m
Coupling attenuation at 30 MHz	>85 dB

Mekaniske egenskaper

Maximum operating pulling force	100 N
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Bruksegenskaper

Kategori	Cat. 7A
Område	LANmark-7A
Temperaturområde under installasjon	0 .. 50 °C
Driftstemperatur område	-20 .. 60 °C
Minimum Bend Radius - During Installation (under Tension)	62 mm
Min. bøyeradius ferdig installert	31 mm
Flammehemmende	IEC 60332-1
Røyktetthet	IEC 61034-2
Korrosive gasser	IEC 60754-1, IEC 60754-2
Lengde	1000 m
Forpakning	Snelle

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ELECTRICAL PERFORMANCE LANMARK-7A CABLE 1250 MHZ

Minimum and Typical Electrical Performance LANmark-7A Cable 1250MHz

Frequency (in MHz)	Attenuation (dB/100m)		NEXT (in dB)		ACR (in dB)		PS-NEXT (in dB)		ACR-F (in dB)		PS-ACR-F (in dB)		Return Loss (in dB)	
	Max.	Typical	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.
1.00	2.1	2.1	80.0	100.0	76.0	98.3	77.0	98.0	75.0	98.0	75.0	96.0	20.0	20.0
4.00	3.7	3.7	80.0	100.0	76.0	96.6	77.0	98.0	75.0	98.0	75.0	96.0	23.0	26.0
10.00	5.8	5.8	80.0	100.0	74.2	94.7	77.0	98.0	75.0	98.0	72.3	96.0	25.0	28.0
16.00	7.3	7.3	80.0	100.0	72.7	93.4	77.0	98.0	71.2	96.0	68.2	94.0	25.0	28.0
20.00	8.2	8.2	80.0	100.0	71.8	92.6	77.0	98.0	69.3	94.0	66.3	92.0	25.0	28.0
31.25	10.1	10.0	80.0	100.0	69.7	90.7	77.0	98.0	65.4	90.0	62.4	88.0	23.6	26.0
62.50	14.6	14.4	80.0	100.0	65.4	86.5	77.0	98.0	59.4	84.0	56.4	82.0	21.5	24.0
100.00	18.5	18.3	78.4	100.0	59.9	82.9	75.4	98.0	55.3	75.0	52.3	73.0	20.1	23.0
155.00	23.2	22.8	75.5	100.0	52.3	75.0	72.5	98.0	51.5	70.0	48.5	68.0	18.8	21.0
300.00	32.7	31.9	71.2	96.0	38.6	65.0	68.2	92.0	45.8	66.0	42.8	64.0	17.3	20.0
600.00	47.1	45.6	66.7	94.0	19.6	50.0	63.7	88.0	39.7	54.0	36.7	52.0	17.3	20.0
800.00	54.9	52.9	64.9	92.0	9.9	40.7	61.9	78.0	37.2	50.0	34.2	48.0	16.0	19.0
1000.00	61.9	59.4	63.4	91.0	1.5	33.5	60.4	78.0	35.3	38.0	32.3	34.0	15.1	18.0
1250.00		66.8		85.0		33.5		78.0		38.0		34.0		18.0