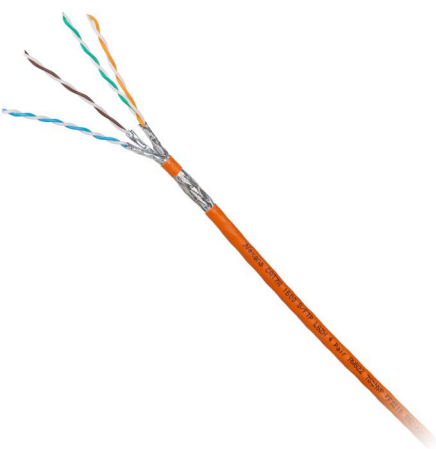




Nexans art.nr.: N100.372-OD

El.nr.: 1087799

YTELSESERKLÆRING



Dca-s2,d1,a1

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

STANDARDE

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

Internasjonal ISO/IEC 11801

DESCRIPTION

LANmark-7A are 4 pair S/FTP cables with individual pair foils and an overall braid offering upper frequencies of at least 1250MHz but up to 1600MHz. All cables are fully compliant with Category 7A standard and offer even large headroom above the Cat 7A requirement. Due to this excellent electrical performance and positive ACR all cables supports applications beyond 10GBASE-T, including 25GBASE-T.

Application

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

- All Ethernet applications including
- 10/100/1000Base-T
- 1000Base-TX
- 10GBase-T
- 25GBase-T up to 30m
- 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.



Blyfri
Ja



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



Operating temp.
-20 ... 60 °C



Flammehemmende
IEC 60332-1



Brannbegrensende
-



Røyktetthet
IEC 61034-2



Korrosive gasser
IEC 60754-1; IEC
60754-2

KARAKTERISTIKKER

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 ledertmotstand 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
Brannbegrensende	-
Røyketthet	IEC 61034-2
Korrosive gasser	IEC 60754-1; IEC 60754-2
Standardlengde	500 m
Forpakning	Snelle

ELECTRICAL PERFORMANCE LANMARK-7A 1250 CABLE

Frequency (in MHz)	Attenuation (in dB/100m)		NEXT pp (in dB)		ACR-F (in dB)		RL (in dB)		Coupling Att. (in dB)		PSANEXT (in dB)		PSAFEXT (in dB)	
	Std Max	Typical	Std Min	Typical	Std Min	Typical	Std Min	Typical	Std Min	Typical	Std Min	Typical	Std Min	Typical
1	4,0	4,0	65,0	104,8	65,0	70,0	19,0	38,0	80,0	106,0	67,0	92,4	80,0	83,0
4	4,1	4,0	65,0	94,6	65,0	70,0	19,0	32,0	68,0	94,0	67,0	92,1	79,8	82,8
10	6,4	6,3	65,0	87,8	65,0	70,0	19,0	28,0	60,0	86,0	67,0	91,0	75,9	78,9
16	8,0	7,9	65,0	84,2	63,3	68,3	18,0	26,0	55,9	81,9	67,0	90,0	73,9	76,9
20	9,0	8,9	65,0	82,5	61,4	66,4	17,5	25,0	54,0	80,0	67,0	89,4	72,9	75,9
31,25	11,2	11,1	65,0	79,1	57,5	62,5	16,5	23,1	50,1	76,1	67,0	88,0	71,0	74,0
62,5	15,9	15,6	65,0	73,7	51,5	56,5	14,0	20,0	44,1	70,1	67,0	85,3	68,0	71,0
100	20,3	19,7	65,0	70,0	47,4	52,4	12,0	18,0	40,0	66,0	67,0	83,1	65,9	68,9
155	25,4	24,5	63,0	66,6	43,6	48,6	10,1	16,1	36,2	62,2	67,0	80,8	63,9	66,9
200	28,9	27,9	60,9	64,6	41,4	46,4	9,0	15,0	34,0	60,0	67,0	79,4	62,8	65,8
250	32,5	31,2	59,1	62,8	39,4	44,4	8,0	14,0	32,0	58,0	67,0	78,1	61,8	64,8
300	35,7	34,1	57,7	61,3	37,8	42,8	8,0	13,2	30,5	56,5	67,0	77,1	60,9	63,9
500	46,7	44,1	53,6	57,2	33,4	38,4	8,0	11,0	26,0	52,0	64,5	75,0	58,6	61,6
600	51,4	48,3	52,1	55,8	31,8	36,8	8,0	10,2	24,4	50,4	63,3	75,0	57,8	60,8
700	55,8	52,1	50,8	54,5	30,5	35,5	7,5	9,5	23,1	49,1	62,3	75,0	57,1	60,1
800	59,9	55,7	49,7	53,5	29,3	34,3	7,0	9,0	21,9	47,9	61,5	75,0	56,4	59,4
900	63,8	59,1	48,8	52,5	28,3	33,3	6,5	8,5	20,9	46,9	60,7	74,0	55,9	58,9
1000	67,6	62,3	47,9	51,6	27,4	32,4	6,0	8,0	20,0	46,0	60,0	73,0	55,4	58,4
1250		70,0		42,0		25,0		8,0		40,0		70,0		50,0