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El.nr.: 1067304

GTIN: 3427630099612

- For installation in industrial premises
- High shielding performance for harsh environments
- Enhanced mechanical properties
- Designed to support industrial Ethernet based automation
- Optimised for use with LANmark connectors
- PE outer jacket
- LSZH inner jacket with reaction-to-fire performance according to CPR classification Dca-s2,d1,a1 (h/EN50575:2014+A1:2016)

STANDARDER

Produkt EN 50173; EN 50288-4-1; IEC 61156-5; IEEE 802.3bt (PoE++); ISO/IEC 24702

Internasjonal ISO/IEC 11801

Specification

The high performing LANmark Industry S/FTP LSZH + PE cables meet or exceed all Category 6A parameters. They comply with the electrical and mechanical requirements of the ISO/IEC 11801-3:2017 standard for industrial premises and with the MICE rating for environmental conditions.

When terminating the cable with LANmark-6A connectors, the Class EA Permanent Link requirements of ISO/IEC 11801 are met.

When used with LANmark-6 connectivity, optimal headroom to 250MHz Class E performance is ensured.

The cables offer a protective PE sheath which is water, UV and moisture resistant. They can be installed outdoors in ducts and are suitable for use indoors when the PE sheath is removed.

This cable version is made with an inner LSZH jacket complying with reaction-to-fire performance Dca-s2,d1,a1 according to the European CPR classification. The cable with its outer PE jacket is classified Fca.

Application

LANmark Industry S/FTP LSZH + PE cables will support Industrial Ethernet applications as well as high speed data applications.

- 10Base-T,
- 100 Base-T
- 1GBase-T
- 10GBase-T
- Industrial Ethernet

Screening

LANmark Industry S/FTP LSZH + PE cables consist of individually screened pairs, bundled by an overall braid. They comply with the EMC requirements for screened cables and show excellent transfer impedance values. They are designed for electrically "noisy" environments.



Halogenfri
Ja



Blyfri
Ja



Flammehemmende
IEC 60332-1



Operating temp.
-20 ... 70 °C



Ambient installation T°
C range
-5 ... 70 °C



Elektromagnetisk
interferens motstand
Ja



RoHS-godkjent
Ja

Transfer Impedance (Grade 1)

- 10mOhm/m at 1 MHz
- 10mOhm/m at 10 MHz
- 30mOhm/m at 30 MHz
- 60mOhm/m at 100 MHz

KARAKTERISTIKKER

Konstruksjonsegenskaper

Kabeltype	S/FTP
Individuell skjerm	Aluminium / Polyester tape
Felles skjerm	Tinned copper braid
Indre kappe	Low smoke, zero halogen thermoplastic compound
Ytre kappe	Polyetylen - PE
Kappefarge	Orange / Black
Halogenfri	Ja
Blyfri	Ja

Dimensjonsegenskaper

Antall par	4
Leder dimensjon (AWG)	23
Diameter over isolert leder	1,2 mm
Ytre diameter	8,6 mm
Vekt (ca.)	66 kg/km

Elektriske egenskaper

Maksimal drifts frekvens	600 MHz
Karakteristisk impedans	100 Ohm
Maks ledermotstand DC v/ 20 °C	95 Ohm/km
Gjensidig (par) kapasitans (nF/km)	56 nF/km

Transmisjonsegenskaper

Hastighetsfaktor	82 %
Skew	25 ns/100m
Forplantnings forsinkelse, maks @ 100 MHz	535 ns/100m
Coupling attenuation at 30 MHz	80 dB

Mekaniske egenskaper

Maks. permanent strekk	0,1 kN
Maks. tillatt strekk v/ utlegging	0,12 kN

Bruksegenskaper

Bruksområde	Faste installasjoner
Forpakning	Snelle
Standardlengde	500 m
Brannbelastning	700 MJ/km
Flammehemmende	IEC 60332-1
Driftstemperatur område	-20 ... 70 °C
Temperaturområde under installasjon	-5 ... 70 °C
Kategori	Cat. 6A
Min. bøyeradius ferdig installert	86 mm
Minimum Bend Radius - During Installation (under Tension)	130 mm
Silikonfri	Ja
Elektromagnetisk interferens motstand	Ja
RoHS-godkjent	Ja