



Nexans art.nr.: 10252045

EI.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 |