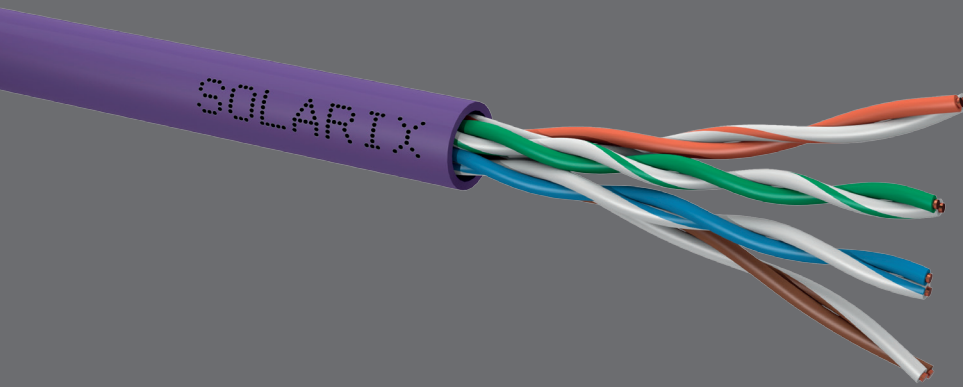


Installation cable Solarix CAT5E UTP LSOH D_{ca}-s1,d2,a1



Product number:
27655171

Type number:
SXKD-5E-UTP-LSOH

EAN barcode:
8595684701210



Key features

- High quality unshielded category 5E/Class D installation cable tested up to 350 MHz
- Designed for ethernet protocols, including 2.5GBASE-T and 5GBASE-T*
- U/UTP cable construction
- LSOH sheath with D_{ca}-s1,d2,a1 reaction to fire class
- Cable conductors are made of high-quality copper wire with 99.97% purity
- The cable meets the ISO/IEC 11801, EN 50173, and ANSI/TIA 568.2-D cabling standards
- As for the EU CPR regulation (i.e. no. 305/2011), the cable has been tested by the FORCE TECHNOLOGY laboratory in the AVCP 3 system

Fire classification

| | |
|-----------------------------|--|
| Reaction to fire class | D _{ca} -s1,d2,a1 |
| Assessment and verification | AVCP 3 system |
| Notified body | 0199 FORCE TECHNOLOGY |
| Declaration of performance | M103-SXKD-5E-UTP-LSOH-D _{ca} -01 |
| Sheath type | LSOH |
| Sheath standards | EN 60332-1-1, EN 60332-1-2, EN 60754-2, EN 61034-1, EN 61034-2, EN 50575 |

Cabling standards

| | |
|-----------------------|--|
| General standards | EN 50173-1, EN 50173-2, ISO/IEC 11801-1, ISO/IEC 11801-2, ANSI/TIA 568.2-D |
| Product standards | EN 50288-3-1, IEC 61156-5 |
| Tested bandwidth | 350 MHz |
| Testing authority | FORCE TECHNOLOGY |
| Certification program | EC VERIFIED, Component Level |

Supported protocols

| | 10BASE-T | 100BASE-TX | 1000BASE-T | 2.5GBASE-T | 5GBASE-T |
|---|----------|------------|------------|------------|----------|
| Supported by the SXKD-5E-UTP-LSOH cable | YES | YES | YES | YES* | YES* |

*) For the 2.5GBASE-T and 5GBASE-T protocols, the operability success and distance achieved may vary depending on the type and quality of installation.



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Supported PoE types

| | 802.3af | 802.3at |
|---|---------|---------|
| PoE type | Type 1 | Type 2 |
| Maximum current | 350 mA | 600 mA |
| No. of pairs used | 2 | 2 |
| Supported by the SXKD-5E-UTP-LSOH cable | YES | YES |

Physical parameters

| | |
|------------------------------------|---|
| Cable construction | U/UTP |
| Number of pairs | 4 |
| Pairs colouring | orange, blue, green, brown |
| Conductor type and size | copper wire \varnothing 0.50 mm \pm 0.005 mm (AWG 24) |
| Conductor insulation | HDPE |
| Conductor diameter with insulation | 0.88 mm \pm 0.05 mm |
| Conductor material | copper with 99.97% purity |
| Sheath thickness | 0.50 mm \pm 0.05 mm |
| Sheath colour | purple RAL 4005 |
| Cable diameter | 5.0 mm \pm 0.5 mm |
| Net cable weight | 30.2 kg/km |

Electrical parameters

| | |
|-----------------------|---|
| NVP | 68% |
| Propagation delay | 535 ns/100 m |
| Delay skew | \leq 45 ns/100 m |
| Dielectric strength | 1 kV DC or 0.7 kV AC for 1 min, or 2.5 kV DC or 1.7 kV AC for 2 s |
| Insulation resistance | \geq 5 000 M Ω x km |
| Resistance imbalance | \leq 2% |

Electrical parameters of Solarix unshielded category 5E cables (at 20 °C).

| f (MHz) | Attenuation (dB/100m) | NEXT (dB) | PSNEXT (dB) | Prop. Delay (ns/100m) | ACR-F (dB/100m) | PSACR-F (dB/100m) | Return Loss (dB) |
|------------|--------------------------|--------------|----------------|--------------------------|--------------------|----------------------|---------------------|
| 1 | 1.94 | 83.24 | 82.43 | 534.95 | 76.30 | 72.75 | 32.03 |
| 4 | 3.89 | 71.20 | 69.89 | 516.29 | 64.02 | 60.40 | 33.38 |
| 8 | 5.52 | 68.88 | 66.19 | 510.89 | 58.02 | 53.00 | 35.09 |
| 10 | 6.18 | 69.88 | 66.88 | 509.48 | 55.08 | 51.28 | 36.05 |
| 16 | 7.83 | 66.11 | 63.11 | 507.05 | 52.09 | 49.08 | 43.10 |
| 20 | 8.77 | 66.90 | 63.82 | 506.03 | 49.66 | 46.58 | 41.27 |
| 25 | 9.81 | 65.40 | 60.58 | 505.18 | 43.65 | 41.21 | 40.07 |
| 31.25 | 11.00 | 57.77 | 55.07 | 504.40 | 45.14 | 42.54 | 39.08 |
| 62.5 | 15.67 | 53.31 | 51.59 | 502.45 | 38.30 | 35.30 | 34.07 |
| 100 | 19.86 | 52.37 | 50.12 | 501.44 | 34.68 | 31.91 | 33.31 |
| 200 | 28.99 | 42.14 | 40.28 | 505.11 | 28.53 | 26.13 | 30.59 |
| 300 | 36.78 | 39.87 | 37.77 | 504.89 | 25.32 | 23.05 | 27.11 |
| 350 | 40.52 | 39.04 | 36.69 | 504.23 | 24.69 | 22.51 | 25.42 |

Installation and storage

| | |
|---|--------------------------------|
| Min. bending radius during installation | 4x cable diameter |
| Max. tensile strength | 100 N (4x 25 N/pair) |
| Segregation classification | type b according to EN 50174-2 |
| Temperature during installation | 0 to 50 °C |
| Operating temperature | -20 to 60 °C |
| Storage temperature | -20 to 60 °C |


Logistic parameters

| | |
|-----------------------------------|--|
| Length | 1000 m/reel |
| Number of reels per pallet | 36 (large pallet), 27 (small pallet) |
| Reel size (Ø x v) | 370 mm x 320 mm |
| Pallet dimensions (w x d x h) | 1140 mm x 1140 mm x 1400 mm (large pallet) 1140 mm x 1140 mm x 1080 mm (small pallet) |
| Pallet weight | 1168 kg (large pallet), 882 kg (small pallet) |
| Batch and product numbers barcode | IDAutomation Code 39, ANSI/ISO/AIM specification |
| EAN barcode | EAN-13 |

Cable label


CE
0199

Product Code:
Kód produktu:
Kod výroby:



* 2 7 6 5 5 1 7 1 *

Batch No.:
Číslo šarže:
Numer partii:



* 1 0 1 7 1 6 4 5 *


SOLARIX

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DoP: M103-SXKD-5E-UTP-LSOH-Dca-01

EN 50575:2014 including A1:2016

SXKD-5E-UTP-LSOH
Installation Cable/Instalační kabel/Kabel instalacyjny
Solarix CAT5E UTP LSOH D_{ca}-s1,d2,a1 1000m



8 595684 701210

Electric cable intended for supply of communication in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke./Kabel určený pro komunikaci v budovách a dalších inženýrských stavbách s cílem omezení vzniku a šíření požáru a kouře./Kabel przeznaczony do komunikacji w budynkach i innych obiektach budowlanych w celu ograniczenia powstania oraz rozprzestrzenienia się ognia i dymu.

Reaction to Fire/Reakce na oheň/Reakcja na ogień: D_{ca}-s1,d2,a1
Dangerous Substances/Nebezpečné látky/Niebezpieczne substancje: NPĐ

Solarix warranties

| | |
|-------------------|----------|
| Standard warranty | 5 years |
| System warranty | 30 years |

RoHS and REACH

| | |
|-------|--|
| RoHS | does not contain any of the substances listed in Annex II of the EU directive no. 2015/863 |
| REACH | does not contain any of the substances from the ECHA list |





We recognize the importance of regular checks of Solarix products that customers use in their networks. That is why we have the electrical parameters of our cables and connecting hardware tested by independent laboratories. Certificates issued by these authorities are an important part of our Solarix product support and guarantee products reliability to our customers. This is also true for the SXXD-5E-UTP-LSOH cable, which has been tested by the FORCE TECHNOLOGY laboratory as part of the EC VERIFIED certification program.

Related products

| Product Number | Type Number | Description |
|----------------|----------------------|---|
| 24000144 | SX24HD-5E-UTP-BK | Patch panel Solarix 24x RJ45 CAT5E UTP Black 0.5U |
| 24200244 | SX24HDM-0-STP-SL-UNI | Unloaded Patch panel Solarix 24 port Stainless 0.5U |
| 24000030 | SX24L-5E-UTP-BK-N | Patch panel Solarix 24x RJ45 CAT5E UTP 1U |
| 24000240 | SX24-5E-UTP-BK | Patch panel Solarix 24x RJ45 CAT5E UTP 150 MHz Black 1U |
| 24000100 | SX24M-0-STP-BK-UNI-N | Unloaded Patch panel Solarix 24 port Black 1U |
| 25286501 | SXKJ-5E-UTP-BK | Keystone Solarix CAT5E UTP RJ45 Black |
| 25286701 | SXKJ-5E-UTP-BK-SA | Keystone Solarix CAT5E UTP RJ45 Black Toolless |
| 25286711 | SXKJ-5E-UTP-BK-SA | MULTIPACK 24 pcs - Keystone Solarix CAT5E UTP RJ45 Toolless |
| 25286703 | SXKJ-5E-UTP-BK-NA | Keystone Solarix CAT5E UTP RJ45 Black |
| 25286713 | SXKJ-5E-UTP-BK-NA | MULTIPACK 24 pcs - Keystone Solarix CAT5E UTP RJ45 Black |
| 23100091 | SX9-2-5E-UTP-WH | Outlet Solarix CAT5E UTP 2x RJ45 Wall-Mount White |
| 23100095 | SX9-1-5E-UTP-WH | Outlet Solarix CAT5E UTP 1x RJ45 Wall-Mount White |
| 11238805 | KRJ45/5SLD | Modular Plug 8p8c CAT5E Unshielded for Solid Cable |
| 11910000 | SXRJ45-5E-STP-BK-SA | Universal Industrial Plug RJ45 CAT5E STP Toolless |
| 13180087 | KRJ45-VEB5 | Connection Box CAT5E UTP 8p8c LSA+/Krone |

