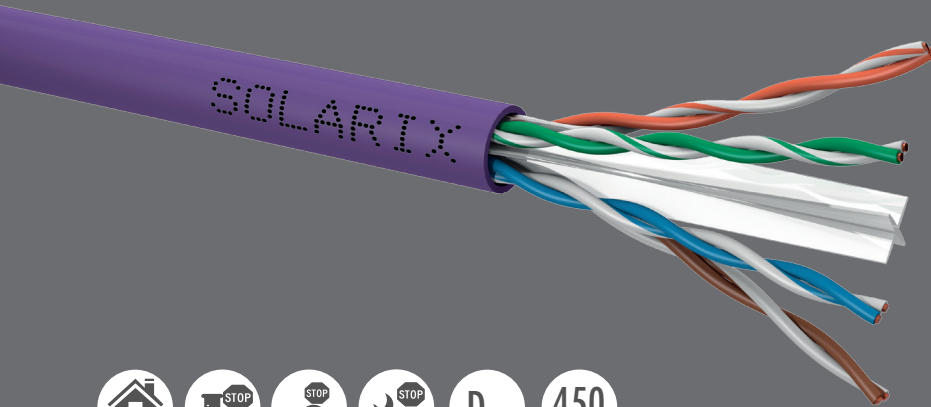


# Installation cable Solarix CAT6 UTP LSOH D<sub>ca</sub>-s2,d2,a1



Product number:  
27724161

Type number:  
SXKD-6-UTP-LSOH

EAN barcode:  
8595684704310



## Key features

- High quality unshielded category 6/Class E installation cable tested up to 450 MHz
- Designed for ethernet protocols, including 2.5GBASE-T and 5GBASE-T
- U/UTP cable construction
- Due to the plastic cross separator excellent resistance to crosstalk between pairs
- LSOH sheath with D<sub>ca</sub>-s2,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-E cabling standards
- Its electrical performance has been authorized by the FORCE TECHNOLOGY independent testing laboratory in the EC VERIFIED certification program
- 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 <sub>ca</sub> -s2,d2,a1  |
| Assessment and verification | AVCP 3 system  |
| Notified body               | 0199 FORCE TECHNOLOGY  |
| Declaration of performance  | M203-SXKD-6-UTP-LSOH-D <sub>ca</sub> -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-E |
| Product standards     | EN 50288-6-1, IEC 61156-5  |
| Tested bandwidth      | 450 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-6-UTP-LSOH cable | YES      | YES        | YES        | YES        | YES      |



## 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-6-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 $\varnothing$ 0.55 mm $\pm$ 0.005 mm (AWG 23) |
| Conductor insulation               | HDPE  |
| Conductor diameter with insulation | 0.98 mm $\pm$ 0.05 mm                                     |
| Conductor material                 | copper with 99.97% purity                                 |
| Sheath thickness                   | 0.55 mm $\pm$ 0.05 mm                                     |
| Sheath colour                      | purple RAL 4005   |
| Cable diameter                     | 6.1 mm $\pm$ 0.5 mm                                       |
| Net cable weight                   | 42.8 kg/km  |

## Electrical parameters

|                       |   |
|-----------------------|---|
| NVP                   | 69%   |
| 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 $\Omega$ x km                                      |
| Resistance imbalance  | $\leq$ 2%   |

Electrical parameters of Solarix unshielded category 6 cables (at 20 °C).

| f<br>(MHz) | Attenuation<br>(dB/100m) | NEXT<br>(dB) | PSNEXT<br>(dB) | Prop. Delay<br>(ns/100m) | ACR-F<br>(dB/100m) | PSACR-F<br>(dB/100m) | Return Loss<br>(dB) |
|------------|--------------------------|--------------|----------------|--------------------------|--------------------|----------------------|---------------------|
| 1          | 1.75                     | 87.20        | 83.63          | 534.95                   | 87.93              | 83.01                | 27.75               |
| 4          | 3.51                     | 76.90        | 77.80          | 528.37                   | 71.52              | 70.01                | 34.81               |
| 8          | 5.00                     | 71.57        | 68.79          | 523.19                   | 63.49              | 62.18                | 36.74               |
| 10         | 5.60                     | 70.42        | 68.36          | 521.88                   | 61.32              | 60.05                | 37.94               |
| 16         | 7.12                     | 67.36        | 65.25          | 519.54                   | 63.64              | 61.87                | 37.03               |
| 20         | 8.00                     | 65.44        | 61.39          | 518.61                   | 57.13              | 56.48                | 38.16               |
| 25         | 8.96                     | 61.46        | 60.40          | 517.77                   | 53.56              | 52.99                | 35.84               |
| 31.25      | 10.05                    | 59.02        | 58.49          | 517.03                   | 56.37              | 52.51                | 35.69               |
| 62.5       | 14.41                    | 57.38        | 56.03          | 515.18                   | 48.64              | 45.33                | 31.60               |
| 100        | 18.28                    | 59.26        | 57.21          | 514.24                   | 43.97              | 42.13                | 32.86               |
| 200        | 26.24                    | 52.37        | 49.45          | 513.21                   | 36.61              | 35.86                | 23.74               |
| 250        | 29.50                    | 57.47        | 53.41          | 512.94                   | 39.59              | 35.94                | 22.54               |
| 350        | 31.14                    | 48.70        | 46.68          | 462.03                   | 22.84              | 22.26                | 22.42               |
| 450        | 35.87                    | 49.19        | 46.98          | 461.83                   | 23.17              | 19.53                | 21.17               |

## 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                             | 100 m/box  |
| Number of boxes per pallet         | 72   |
| Box size (w x d x h)               | 120 mm x 315 mm x 315 mm                         |
| Pallet dimensions (w x d x h)      | 1020 mm x 1020 mm x 1150 mm                      |
| Pallet weight                      | 382 kg   |
| Batch and product numbers bar code | IDAutomation Code 39, ANSI/ISO/AIM specification |
| EAN barcode                        | EAN-13   |

## Cable label

**CE**  
199

Product Code:  
Kód produktu:  
Kod výrobu:

Batch No.:  
Číslo šarže:  
Numer partii:

**SOLARIX**

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**INTELEK LTD**  
Ericha Roučky 1291/4, 627 00 Brno, CZ  
21

DoP: M203-SXKD-6-UTP-LSOH-Dca-01

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EN 50575:2014 including A1:2016

**SXKD-6-UTP-LSOH**  
Installation Cable/Instalační kabel/Kabel instalacyjny  
Solarix CAT6 UTP LSOH D<sub>ca</sub>-s2,d2,a1 100m

8 595684 704310

Product info/Info o produktu/Info o produkcie:  
www.solarix.info, info@solarix.info  
+420 840 505 555

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 powstawania oraz rozprzestrzeniania się ognia i dymu.

Reaction to Fire/Reakce na oheň/Reakcja na ogień: D<sub>ca</sub>-s2,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 SXKD-6-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  |
|----------------|----------------------|--|
| 24000146       | SX24HD-6-UTP-BK      | Patch panel Solarix 24x RJ45 CAT6 UTP 0,5U                 |
| 24200244       | SX24HDM-0-STP-SL-UNI | Unloaded Patch panel Solarix 24 port Stainless 0,5U        |
| 24000050       | SX24L-6-UTP-BK-N     | Patch panel Solarix 24x RJ45 CAT6 UTP 1U                   |
| 24200024       | SX24-6-UTP-BK        | Patch panel Solarix 24x RJ45 CAT6 UTP 350 MHz Black        |
| 24000100       | SX24M-0-STP-BK-UNI-N | Unloaded Patch panel Solarix 24 port Black 1U              |
| 25286601       | SXKJ-6-UTP-BK        | Keystone Solarix CAT6 UTP RJ45 Black                       |
| 25286801       | SXKJ-6-UTP-BK-SA     | Keystone Solarix CAT6 UTP RJ45 Black Toolless              |
| 25286811       | SXKJ-6-UTP-BK-SA     | MULTIPACK 24 pcs - Keystone Solarix CAT6 UTP RJ45 Toolless |
| 25286803       | SXKJ-6-UTP-BK-NA     | Keystone Solarix CAT6 UTP RJ45 Black for SXKJ-NA-BU        |
| 25286813       | SXKJ-6-UTP-BK-NA     | MULTIPACK 24 pcs - Keystone Solarix CAT6 UTP RJ45 Black    |
| 23100093       | SX9-2-6-UTP-WH       | Outlet Solarix CAT6 UTP 2x RJ45 Wall-Mount White           |
| 23100097       | SX9-1-6-UTP-WH       | Outlet Solarix CAT6 UTP 1x RJ45 Wall-Mount White           |
| 11238905       | KRJ45/6SLD           | Modular Plug 8p8c CAT6 Unshielded for Solid Cable          |
| 11910001       | SXRJ45-6-STP-BK-SA   | Universal Industrial Plug RJ45 CAT6 STP Toolless           |
| 13180090       | KRJ45-VEB6           | Connection Box CAT6 UTP 8p8c ISA+/Krone                    |

