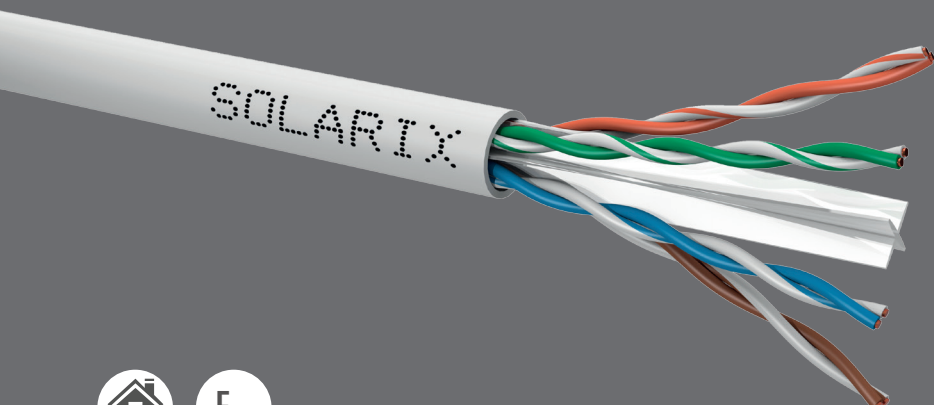


# Installation cable Solarix CAT6 UTP PVC

E<sub>ca</sub>



Product number:  
27724160

Type number:  
SXKD-6-UTP-PVC

EAN barcode:  
8595684704297



## Key features

- High quality unshielded category 6/Class E installation cable
- 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
- PVC sheath with E<sub>ca</sub> 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      | E <sub>ca</sub>                      |
| Assessment and verification | AVCP 3 system                        |
| Notified body               | 0199 FORCE TECHNOLOGY                |
| Declaration of performance  | M201-SXKD-6-UTP-PVC-Eca-01           |
| Sheath type                 | PVC                                  |
| Sheath standards            | EN 60332-1-1, EN 60332-1-2, 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 50288-6-1, IEC 61156-5  |

## Supported protocols

|                                       | 10BASE-T | 100BASE-TX | 1000BASE-T | 2.5GBASE-T | 5GBASE-T |
|---------------------------------------|----------|------------|------------|------------|----------|
| Supported by the SXKD-6-UTP-PVC 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-PVC 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                      | grey RAL 7035   |
| Cable diameter                     | 6.1 mm $\pm$ 0.5 mm                                       |
| Net cable weight                   | 41.7 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               |

## 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                     | 366 kg   |
| Batch and product numbers barcode | IDAutomation Code 39, ANSI/ISO/AIM specification |
| EAN barcode                       | EAN-13   |

## Cable label


**CE**  
199

Product Code:  
Kód produktu:  
Kod výrobu:



\* 2 7 7 2 4 1 6 0 \*

Batch No.:  
Číslo šarže:  
Numer partii:



\* 1 0 1 7 1 6 4 5 \*


**SOLARIX**

INTELEK LTD, Dimophontos 1, Lamda Tower  
1075 Nicosia, CY, HE 438609  
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DoP: M201-SXKD-6-UTP-PVC-Eca-01

EN 50575:2014 including A1:2016

**SXKD-6-UTP-PVC**  
Installation Cable/Instalační kabel/Kabel instalacyjny  
Solarix CAT6 UTP PVC E<sub>ca</sub> 100m



8 595684 704297

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: E<sub>ca</sub>  
Dangerous Substances/Nebezpečné látky/Niebezpieczne substancje: NPD

## 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                                  |



## 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 LSA+/Krone                    |