

# Installation cable Solarix CAT6A STP LSOH D<sub>ca</sub>-s1,d2,a1



**Product number:**  
26000025

**Type number:**  
SXKD-6A-STP-LSOH

**EAN barcode:**  
8595684701050



## Key features

- High quality shielded category 6A/Class E<sub>A</sub> installation cable
- Designed for the 10GBASE-T high-speed ethernet protocol
- U/FTP cable construction
- Due to the individual pair shielding (i.e. PiMF) excellent resistance to alien crosstalk
- LSOH sheath with D<sub>ca</sub>-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
- 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	<b>D<sub>ca</sub>-s1,d2,a1</b>
Assessment and verification	<b>AVCP 3 system</b>
Notified body	<b>0199 FORCE TECHNOLOGY</b>
Declaration of performance	<b>M301-SXKD-6A-STP-LSOH-Dca-01</b>
Sheath type	<b>LSOH</b>
Sheath standards	<b>EN 60332-1-1, EN 60332-1-2, EN 60754-2, EN 61034-1, EN 61034-2, EN 50575</b>

## Cabling standards

General standards	<b>EN 50173-1, EN 50173-2, ISO/IEC 11801-1, ISO/IEC 11801-2, ANSI/TIA 568.2-D</b>
Product standards	<b>EN 50288-10-1, IEC 61156-5</b>
Testing authority	<b>FORCE TECHNOLOGY</b>
Certification program	<b>EC VERIFIED, Component Level</b>

## Supported protocols

	10BASE-T	100BASE-TX	1000BASE-T	2.5GBASE-T	5GBASE-T	10GBASE-T
Supported by the SXKD-6A-STP-LSOH cable	YES	YES	YES	YES	YES	YES



## Supported PoE types

	802.3af	802.3at	802.3bt	802.3bt
PoE type	Type 1	Type 2	Type 3	Type 4
Maximum current	350 mA	600 mA	600 mA	960 mA
No. of pairs used	2	2	4	4
Supported by the SXKD-6A-STP-LSOH cable	YES	YES	YES	YES

## Physical parameters

Cable construction	U/FTP
Number of pairs	4
Pairs colouring	orange, blue, green, brown
Shielding	individual foil around each pair (PiMF)
Foil material	Al/Mylar
Conductor type and size	copper wire $\varnothing$ 0.56 mm $\pm$ 0.005 mm (AWG 23)
Conductor insulation	skin-foam-skin PE
Conductor diameter with insulation	1.33 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	7.4 mm $\pm$ 0.5 mm
Ground wire	tinned copper wire $\varnothing$ 0.45 mm $\pm$ 0.005 mm
Net cable weight	51.5 kg/km

## Electrical parameters

NVP	75%
Propagation delay	480 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 shielded category 6A cables (at 20 °C).

f	Attenuation	NEXT	PSNEXT	Prop. Delay	ACR-F	PSACR-F	Return Loss
(MHz)	(dB/100m)	(dB)	(dB)	(ns/100m)	(dB/100m)	(dB/100m)	(dB)
1	1.98	93.94	91.70	479.69	92.01	89.29	31.08
4	3.59	96.68	93.19	462.20	94.10	90.15	35.28
8	4.95	93.93	90.89	457.08	92.04	87.80	33.99
10	5.52	94.69	91.36	455.77	89.01	86.57	33.22
16	7.03	93.18	90.17	453.46	87.03	83.49	33.46
20	7.92	88.94	87.46	452.53	88.22	85.63	30.52
25	8.95	96.08	93.46	451.71	84.24	81.75	31.56
31.25	10.08	96.06	91.93	450.97	83.40	81.59	31.32
62.5	14.38	92.33	88.01	449.14	78.01	74.47	35.29
100	18.25	87.75	85.05	448.21	75.83	71.53	31.44
200	26.08	78.52	74.34	447.18	60.74	57.83	33.21
250	29.26	74.26	69.77	446.92	61.21	57.76	31.07
300	32.16	72.36	68.57	446.73	58.66	55.13	29.67
400	37.54	69.07	67.07	446.46	43.60	41.58	27.03
500	42.26	72.83	70.26	446.27	42.92	39.76	23.32

## Installation and storage

Min. bending radius during installation	4x cable diameter
Max. tensile strength	100 N (4x 25 N/pair)
Segregation classification	type c 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	500 m/reel
Number of reels per pallet	27
Reel size (Ø x v)	380 x 390 mm
Pallet dimensions (w x d x h)	1140 x 1140 x 1280 mm
Pallet weight	779 kg
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 výrobu:

Batch No.:  
Číslo šarže:  
Numer partii:

**SOLARIX**

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DoP: M301-SXKD-6A-STP-LSOH-Dca-01

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EN 50575:2014 including A1:2016

**SXKD-6A-STP-LSOH**

Installation Cable/Instalační kabel/Kabel instalacyjny  
Solarix CAT6A STP LSOH D<sub>ca</sub>-s1,d2,a1 500m

8 595684 701050

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>-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-6A-STP-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
24000100	SX24M-0-STP-BK-UNI-N	Unloaded Patch panel Solarix 24 port Black 1U
25286902	SXKJ-10G-STP-BK-SA	10G Keystone Solarix CAT6A STP RJ45 Black Toolless
25286903	SXKJ-10G-STP-BK-NA	10G Keystone Solarix CAT6A STP Black
25286912	SXKJ-10G-STP-BK-SA	MULTIPACK 24 pcs - 10G Keystone Solarix CAT6A STP Toolless
25286913	SXKJ-10G-STP-BK-NA	MULTIPACK 24 pcs - 10G Keystone Solarix CAT6A STP Black
28770059	C6A-315GY-0,5MB	10G Patch Cable CAT6A SFTP LSOH 0,5m Grey Non-Snag-Proof
28770109	C6A-315GY-1MB	10G Patch Cable CAT6A SFTP LSOH 1m Grey Non-Snag-Proof
28770209	C6A-315GY-2MB	10G Patch Cable CAT6A SFTP LSOH 2m Grey Non-Snag-Proof
28770309	C6A-315GY-3MB	10G Patch Cable CAT6A SFTP LSOH 3m Grey Non-Snag-Proof
28770509	C6A-315GY-5MB	10G Patch Cable CAT6A SFTP LSOH 5m Grey Non-Snag-Proof
28770709	C6A-315GY-7MB	10G Patch Cable CAT6A SFTP LSOH 7m Grey Non-Snag-Proof
28771009	C6A-315GY-10MB	10G Patch Cable CAT6A SFTP LSOH 10m Grey Non-Snag-Proof
28771509	C6A-315GY-15MB	10G Patch Cable CAT6A SFTP LSOH 15m Grey Non-Snag-Proof
28772009	C6A-315GY-20MB	10G Patch Cable CAT6A SFTP LSOH 20m Grey Non-Snag-Proof

