Installation cable Solarix CAT6 UTP LSOH D$_{ca}$-s2,d2,a1

SOLARIX

Product number:
26000021

Type number:
SXKD-6-UTP-LSOH

EAN barcode:
8595684701111

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$_{ca}$-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$_{ca}$-s2,d2,a1**
Assessment and verification	**AVCP 3 system**
Notified body	**0199 FORCE TECHNOLOGY**
Declaration of performance	**M203-SXKD-6-UTP-LSOH-Dca-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 Ø 0.55 mm ± 0.005 mm (AWG 23)
Conductor insulation	HDPE
Conductor diameter with insulation	0.98 mm ± 0.05 mm
Conductor material	copper with 99.97% purity
Sheath thickness	0.55 mm ± 0.05 mm
Sheath colour	purple RAL 4005
Cable diameter	6.1 mm ± 0.5 mm
Net cable weight	42.8 kg/km

Electrical parameters

NVP	69%
Propagation delay	535 ns/100 m
Delay skew	≤ 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	≥ 5 000 MΩ x km
Resistance imbalance	≤ 2%

Electrical parameters of Solarix unshielded category 6 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	1.75	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	**500 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 1120 mm x 1400 mm (large pallet)** **1140 mm x 1120 mm x 1080 mm (small pallet)**
Pallet weight	**852 kg (large pallet), 644 kg (small pallet)**
Batch and product numbers barcode	**IDAutomation Code 39, ANSI/ISO/AIM specification**
EAN barcode	**EAN-13**

Cable label

Product Code:
Kód produktu:
Kod wyrobu:

* 2 6 0 0 0 0 2 1 *

Batch No.:
Číslo šarže:
Numer partii:

* 1 0 1 7 1 6 4 5 *

CE
0199

SOLARIX

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

EN 50575:2014 including A1:2016

SXKD-6-UTP-LSOH

Installation Cable/Instalační kabel/Kabel instalacyjny
Solarix CAT6 UTP LSOH D_{ca}-s2,d2,a1 500m

8 595684 701111

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.

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

Reaction to Fire/Reakce na oheň/Reakcja na ogień: D_{ca}-s2,d2,a1
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**

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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 LSA+/Krone