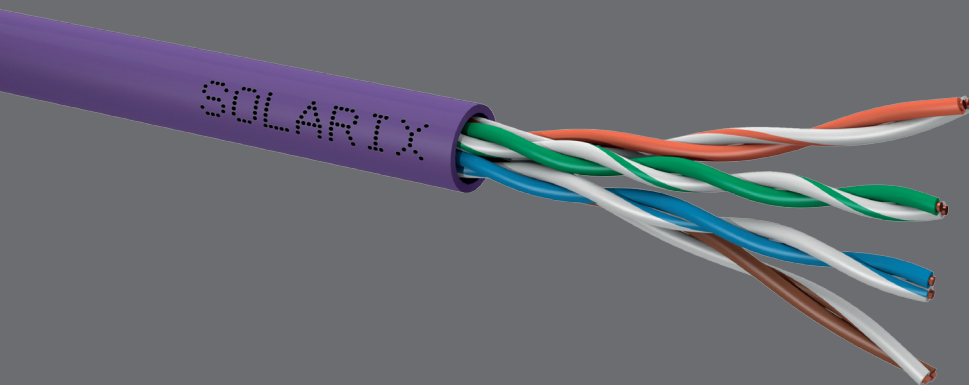


Installation cable Solarix CAT5E UTP LSOH D_{ca}-s1,d2,a1



Product number:
27724119

Type number:
SXKD-5E-UTP-LSOH

EAN barcode:
8595684701197



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-E 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-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 50288-3-1, 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 $\varnothing 0.50 \text{ mm} \pm 0.005 \text{ mm}$ (AWG 24)
Conductor insulation	HDPE
Conductor diameter with insulation	$0.88 \text{ mm} \pm 0.05 \text{ mm}$
Conductor material	copper with 99.97% purity
Sheath thickness	$0.50 \text{ mm} \pm 0.05 \text{ mm}$
Sheath colour	purple RAL 4005
Cable diameter	$5.0 \text{ mm} \pm 0.5 \text{ mm}$
Net cable weight	30.2 kg/km

Electrical parameters

NVP	68%
Propagation delay	535 ns/100 m
Delay skew	$\leq 45 \text{ ns/100 m}$
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	$\geq 5\,000 \text{ M}\Omega \times \text{km}$
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	305 m/box
Number of boxes per pallet	45
Box size (w x d x h)	205 mm x 360 mm x 360 mm
Pallet dimensions (w x d x h)	1140 mm x 1070 mm x 1190 mm
Pallet weight	466 kg
Batch and product numbers barcode	IDAutomation Code 39, ANSI/ISO/AIM specification
EAN barcode	EAN-13

Cable label



199

Product Code:
Kód produktu:
Kod výroby:



* 2 7 7 2 4 1 1 9 *

Batch No.:
Číslo šarže:
Numer partii:



* 1 0 1 7 1 6 4 5 *



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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 305m



8 595684 701197

Product info/Info o produktu/Info o produkcie:
www.solarix.info, info@solarix.info
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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_{ca}-s1,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





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-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-O-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-O-STP-BK-UNI-N	Unloaded Patch panel Solarix 24 port Black 1U
24200243	SX24M-O-STP-BK-UNI	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
25286705	SXKJ-5E-UTP-WH-SA	Keystone Solarix CAT5E UTP RJ45 White Toolless
25286706	SXKJ-5E-UTP-RAL-SA	Keystone Solarix CAT5E UTP RJ45 Colour Modules Toolless, SECURE CAP
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
13180087	KRJ45-VEB5	Connection Box CAT5E UTP 8p8c LSA+/Krone