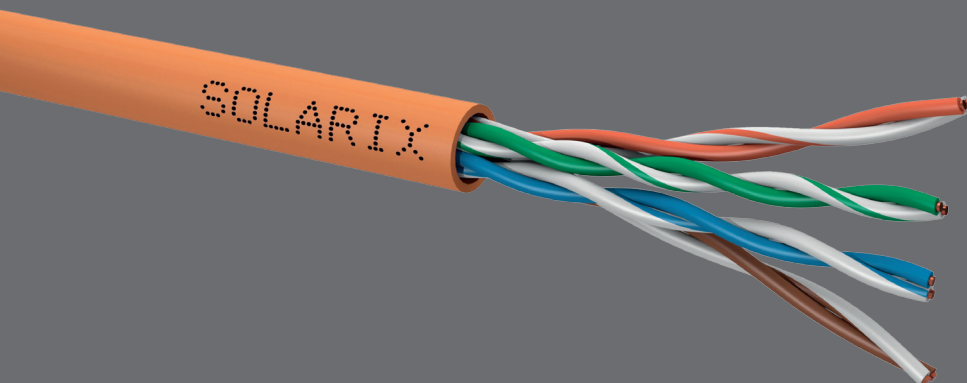


Installation cable Solarix CAT5E UTP LSOHFR B2_{ca}-s1a,d0,a1



Product number:
27724126

Type number:
SXKD-5E-UTP-LSOHFR-B2_{ca}

EAN barcode:
8595684704952



Key features

- High quality unshielded category 5E/Class D installation cable
- Designed for ethernet protocols, including 2.5GBASE-T and 5GBASE-T*
- U/UTP cable construction
- LSOHFR sheath with B2_{ca}-s1a,d0,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 CERTIFICATION A/S laboratory in the AVCP 1+ system

Fire classification

Reaction to fire class	B2_{ca}-s1a,d0,a1
Assessment and verification	AVCP 1+ system
Notified body	0200 FORCE CERTIFICATION A/S
Declaration of performance	M112-SXKD-5E-UTP-LSOHFR-B2_{ca}-01
Sheath type	LSOHFR
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

Supported protocols

	10BASE-T	100BASE-TX	1000BASE-T	2.5GBASE-T	5GBASE-T
Supported by the SXKD-5E-UTP-LSOHFR-B2 _{ca} 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-LSOHFR-B2ca 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	$0.70 \text{ mm} \pm 0.05 \text{ mm}$
Sheath colour	orange RAL 2003
Cable diameter	$5.4 \text{ mm} \pm 0.5 \text{ mm}$
Net cable weight	39,3 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

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)	215 mm x 380 mm x 380 mm
Pallet dimensions (w x d x h)	1150 mm x 1150 mm x 1250 mm
Pallet weight	600 kg
Batch and product numbers barcode	IDAutomation Code 39, ANSI/ISO/AIM specification
EAN barcode	EAN-13

Cable label



0200

Product Code:
Kód produktu:
Kod výroby:



* 2 7 7 2 4 1 2 6 *

Batch No.:
Číslo šarže:
Numer partii:



* 1 0 1 7 1 6 4 5 *



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DoP: M112-SXKD-5E-UTP-LSOHFR-B2ca-01

EN 50575:2014 including A1:2016

SXKD-5E-UTP-LSOHFR-B2ca
Installation Cable/Instalační kabel/Kabel instalacyjny
Solarix CAT5E UTP LSOHFR B2_{ca}-s1a,d0,a1 305m



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Product info/Info o produktu/Info o produkcie:
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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: B2_{ca}-s1a,d0,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





This cable complies with the directive of the Ministry of the Interior no. 23/2008 resp. no. 268/2011 on technical conditions of fire protection of buildings and, therefore, is suitable for applications defined in Annex 2 of the above directives for the use of cables with the B2_{cs}-s1a,d0,a1 reaction to fire class. This Solarix cable has been tested in accordance with the EU regulation no. 305/2011 (i.e. CPR) by a notified body in the AVCP 1+ system.

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