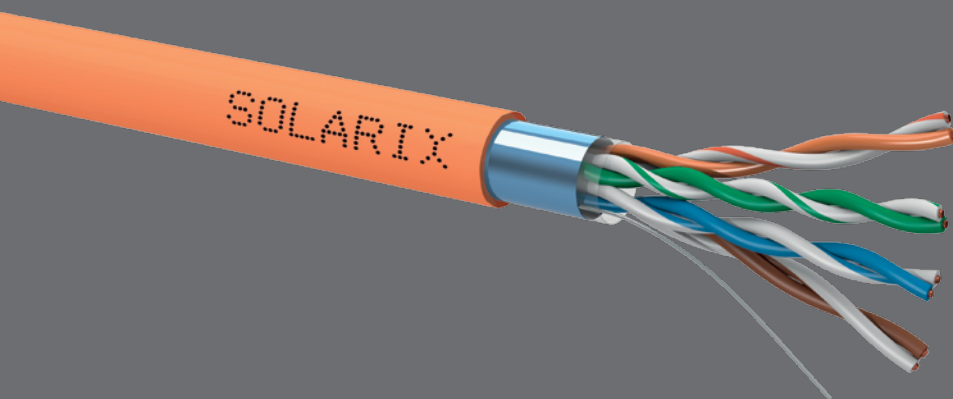


# Installation cable Solarix CAT5E FTP LSOHFR B2<sub>ca</sub>-s1a,d1,a1



Product number:  
27655153

Type number:  
SXKD-5E-FTP-LSOHFR-B2ca

EAN barcode:  
8595684703344



## Key features

- High quality shielded category 5E/Class D installation cable
- Designed for ethernet protocols, including 2.5GBASE-T and 5GBASE-T\*
- F/UTP cable construction
- LSOHFR sheath with B2<sub>ca</sub>-s1a,d1,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
- 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 <sub>ca</sub> -s1a,d1,a1
Assessment and verification	AVCP 1+ system
Notified body	0200 FORCE CERTIFICATION A/S
Declaration of performance	M111-SXKD-5E-FTP-LSOHFR-B2ca-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-D
Product standards	EN 50288-2-1, IEC 61156-5

## Supported protocols

	10BASE-T	100BASE-TX	1000BASE-T	2.5GBASE-T	5GBASE-T
Supported by the SXKD-5E-FTP-LSOHFR-B2ca 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.



## 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-FTP-LSOHFR-B2ca cable	YES	YES

## Physical parameters

Cable construction	F/UTP
Number of pairs	4
Pairs colouring	orange, blue, green, brown
Shielding	overall foil
Foil material	Al/Mylar
Conductor type and size	copper wire $\varnothing$ 0.50 mm $\pm$ 0.005 mm (AWG 24)
Conductor insulation	HDPE
Conductor diameter with insulation	1.0 mm $\pm$ 0.05 mm
Conductor material	copper with 99.97% purity
Sheath thickness	0.65 mm $\pm$ 0.05 mm
Sheath colour	orange RAL 2003
Cable diameter	6.3 mm $\pm$ 0.4 mm
Ground wire	finned copper wire $\varnothing$ 0.45 mm $\pm$ 0.005 mm
Net cable weight	46.0 kg/km

## Electrical parameters

NVP	68%
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 shielded 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 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	36 (large pallet), 27 (small pallet)
Reel size (Ø x v)	380 mm x 320 mm
Pallet dimensions (w x d x h)	1140 mm x 1140 mm x 1400 mm (large pallet) 1140 mm x 1140 mm x 1080 mm (small pallet)
Pallet weight	924 kg (large pallet), 699 kg (small pallet)
Batch and product numbers barcode	IDAutomation Code 39, ANSI/ISO/AIM specification
EAN barcode	EAN-13

## Cable label

**CE**  
0200

Product Code:  
Kód produktu:  
Kod výroby:

Batch No.:  
Číslo šarže:  
Numer partii:

**SOLARIX**

INTELEK LTD, Dimophontos 1, Lamda Tower  
1075 Nicosia, CY, HE 438609  
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DoP: M111-SXKD-5E-FTP-LSOHFR-B2ca-01

EN 50575:2014 including A1:2016

**SXKD-5E-FTP-LSOHFR-B2ca**  
Installation Cable/Instalační kabel/Kabel instalacyjny  
Solarix CAT5E FTP LSOHFR B2<sub>ca</sub>-s1a,d1,a1 500m

8 595684 703344

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<sub>ca</sub>-s1a,d1,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<sub>cs</sub>-s1a,d1,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
24000145	SX24HD-5E-STP-SL	Patch panel Solarix 24x RJ45 CAT5E STP 0.5U
24200244	SX24HDM-0-STP-SL-UNI	Unloaded Patch panel Solarix 24 port Stainless 0.5U
24000040	SX24-5E-STP-BK-N	Patch panel Solarix 24x RJ45 CAT5E STP 1U
24000100	SX24M-0-STP-BK-UNI-N	Unloaded Patch panel Solarix 24 port Black 1U
25286502	SXKJ-5E-STP-BK	Keystone Solarix CAT5E STP RJ45 Black
25286702	SXKJ-5E-STP-BK-SA	Keystone Solarix CAT5E STP RJ45 Black Toolless
25286712	SXKJ-5E-STP-BK-SA	MULTIPACK 24 pcs - Keystone Solarix CAT5E STP RJ45 Black Toolless
25286704	SXKJ-5E-STP-BK-NA	Keystone Solarix CAT5E STP RJ45 Black for SXKJ-NA-BU
25286714	SXKJ-5E-STP-BK-NA	MULTIPACK 24 pcs - Keystone Solarix CAT5E STP RJ45 Black
23100092	SX9-2-5E-STP-WH	Outlet Solarix CAT5E STP 2x RJ45 Wall-Mount White
23100096	SX9-1-5E-STP-WH	Outlet Solarix CAT5E STP 1x RJ45 Wall-Mount White
11578804	KRJS45/5SLD	Modular Plug 8p8c CAT5E Shielded for Solid Cable
11910000	SXRJ45-5E-STP-BK-SA	Universal Industrial Plug RJ45 CAT5E STP Toolless
13180089	KRJS45-VEB5	Connection Box CAT5E STP 8p8c LSA+/Krone

