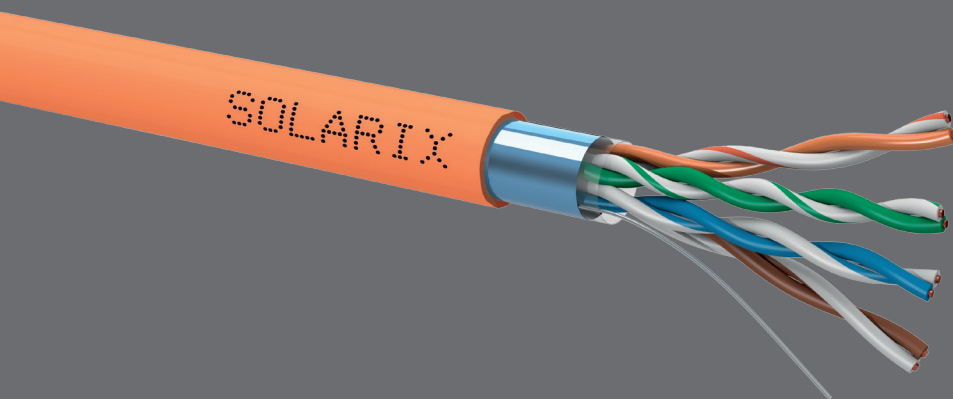


# Installation cable Solarix CAT5E FTP LSOHFR B2<sub>ca</sub>-s1a,d1,a1



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-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	<b>B2<sub>ca</sub>-s1a,d1,a1</b>
Assessment and verification	<b>AVCP 1+ system</b>
Notified body	<b>0200 FORCE CERTIFICATION A/S</b>
Declaration of performance	<b>M111-SXKD-5E-FTP-LSOHFR-B2ca-01</b>
Sheath type	<b>LSOHFR</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-E</b>
Product standards	<b>EN 50288-2-1, IEC 61156-5</b>

## 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 SXXD-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**

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**INTELEK LTD**  
Ericha Roučky 1291/4, 627 00 Brno, CZ  
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DoP: M111-SXKD-5E-FTP-LSOHFR-B2ca-01

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EN 50575:2014 including A1:2016

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**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

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

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 powstania 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: 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





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 B<sub>2</sub><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

