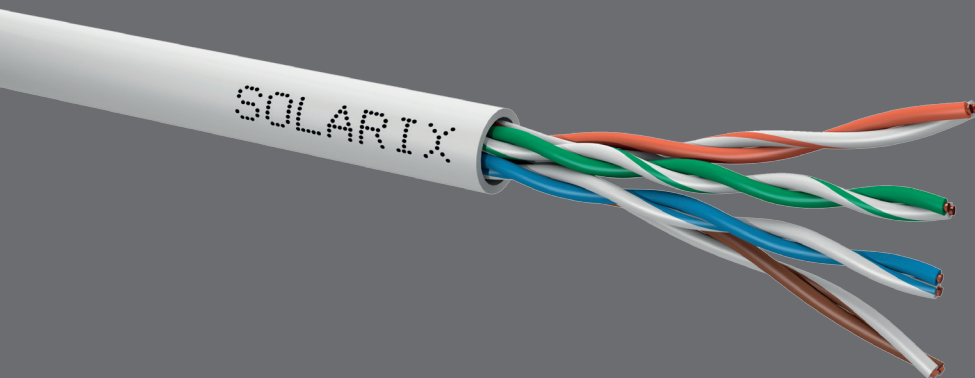


# Installation cable Solarix CAT5E UTP PVC

E<sub>ca</sub>



Product number:  
27655151

Type number:  
SXKD-5E-UTP-PVC

EAN barcode:  
8595684701180



## 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
- PVC sheath with E<sub>ca</sub> 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	E <sub>ca</sub>
Assessment and verification	AVCP 3 system
Notified body	0199 FORCE TECHNOLOGY
Declaration of performance	M101-SXKD-5E-UTP-PVC-Eca-01
Sheath type	PVC
Sheath standards	EN 60332-1-1, EN 60332-1-2, 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-PVC 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-UTP-PVC 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 mm $\pm$ 0.005 mm (AWG 24)
Conductor insulation	HDPE
Conductor diameter with insulation	0.88 mm $\pm$ 0.05 mm
Conductor material	copper with 99.97% purity
Sheath thickness	0.50 mm $\pm$ 0.05 mm
Sheath colour	grey RAL 7035
Cable diameter	5.0 mm $\pm$ 0.5 mm
Net cable weight	29.2 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 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	1000 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 1140 mm x 1400 mm (large pallet) 1140 mm x 1140 mm x 1080 mm (small pallet)
Pallet weight	1132 kg (large pallet), 855 kg (small pallet)
Batch and product numbers barcode	IDAutomation Code 39, ANSI/ISO/AIM specification
EAN barcode	EAN-13

## Cable label


**CE**  
0199

Product Code:  
Kód produktu:  
Kod výroby:



\* 2 7 6 5 5 1 5 1 \*

Batch No.:  
Číslo šarže:  
Numer partii:



\* 1 0 1 7 1 6 4 5 \*

**SOLARIX**

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**INTELEK LTD**  
Ericha Roučky 1291/4, 627 00 Brno, CZ  
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DoP: M101-SXKD-5E-UTP-PVC-Eca-01

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EN 50575:2014 including A1:2016

**SXKD-5E-UTP-PVC**  
Installation Cable/Instalační kabel/Kabel instalacyjny  
Solarix CAT5E UTP PVC E<sub>ca</sub> 1000m



8 595684 701180

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: E<sub>ca</sub>  
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



## Related products

Product Number	Type Number	Description
24000144	SX24HD-5E-UTP-BK	Patch panel Solarix 24x RJ45 CAT5E UTP Black 0.5U
24200244	SX24HDM-0-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-0-STP-BK-UNI-N	Unloaded Patch panel Solarix 24 port Black 1U
24200243	SX24M-0-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