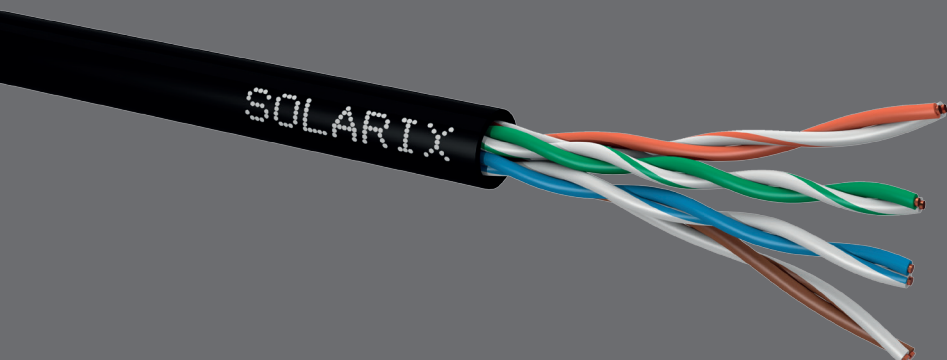


# Installation cable Solarix CAT5E UTP PE

F<sub>ca</sub>



**Product number:**  
27655191

**Type number:**  
SXKD-5E-UTP-PE

**EAN barcode:**  
8595684701265



## Key features

- High quality unshielded category 5E/Class D installation cable for outdoor use
- Designed for ethernet protocols, including 2.5GBASE-T and 5GBASE-T\*
- U/UTP cable construction
- PE sheath with the F<sub>ca</sub> reaction to fire class, UV resistant, IP 67 ingress protection
- 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

## Fire classification

Reaction to fire class	F <sub>ca</sub>
Assessment and verification	AVCP 4 system
Declaration of performance	M106-SXKD-5E-UTP-PE-Fca-01
Sheath type	PE, UV resistant

## 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-PE 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-PE 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 material	LLDPE, UV resistant
Ingress protection	IP 67
Sheath colour	black RAL 9005
Cable diameter	5.1 mm $\pm$ 0.5 mm
Net cable weight	27.6 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 70 °C
Storage temperature	-20 to 70 °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)	1140 mm x 1140 mm x 1250 mm
Pallet weight	429 kg
Batch and product numbers barcode	IDAutomation Code 39, ANSI/ISO/AIM specification
EAN barcode	EAN-13



## Cable label



Product Code:  
Kód produktu:  
Kod výroby:



Batch No.:  
Číslo šarže:  
Numer partii:



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**INTELEK LTD**  
Ericha Roučky 1291/4, 627 00 Brno, CZ  
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DoP: M106-SXKD-5E-UTP-PE-Fca-01

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EN 50575:2014 including A1:2016

**SXKD-5E-UTP-PE**  
Installation Cable/Instalační kabel/Kabel instalacyjny  
Solarix CAT5E UTP PE F<sub>ca</sub> 305m



8 595684 701265

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 rozprzestrzenienia się ognia i dymu.

Reaction to Fire/Reakce na oheň/Reakcja na ogień: F<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