

Installation cable Solarix CAT6A UTP LSOHFR B2_{ca}-s1a,d1,a1



Product number:
26000039

Type number:
SXKD-6A-UTP-LSOHFR-B2_{ca}

EAN barcode:
8595684704938



Key features

- High quality unshielded category 6A/Class E_A installation cable
- Designed for the 10GBASE-T high-speed ethernet protocol
- U/UTP cable construction with CROSSTALK PROTECT foil, which does not need to be terminated to components or even be grounded
- Thanks to this special foil, excellent 360° resistance to Alien CrossTalk is ensured
- LSOHFR sheath with B2_{ca}-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
- Its electrical performance has been authorized by the FORCE TECHNOLOGY independent testing laboratory in the EC VERIFIED certification program
- 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,d1,a1
Assessment and verification	AVCP 1+ system
Notified body	0200 FORCE CERTIFICATION A/S
Declaration of performance	M308-SXKD-6A-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 50288-11-1, IEC 61156-5
Testing authority	FORCE TECHNOLOGY
Certification program	EC VERIFIED, Component Level
Technology applied	CROSSTALK PROTECT foil

Supported protocols

	10BASE-T	100BASE-TX	1000BASE-T	2.5GBASE-T	5GBASE-T	10GBASE-T
Supported by the SXKD-6A-UTP-LSOHFR-B2 _{ca} cable	YES	YES	YES	YES	YES	YES



Supported PoE types

	802.3af	802.3at	802.3bt	802.3bt
PoE type	Type 1	Type 2	Type 3	Type 4
Maximum current	350 mA	600 mA	600 mA	960 mA
No. of pairs used	2	2	4	4
Supported by the SXKD-6A-UTP-LSOHFR-B2ca cable	YES	YES	YES	YES

Physical parameters

Cable construction	U/UTP with CROSSTALK PROTECT foil
Number of pairs	4
Pairs colouring	orange, blue, green, brown
Conductor type and size	copper wire \varnothing 0.565 mm \pm 0.005 mm (AWG 23)
Conductor insulation	PE
Conductor diameter with insulation	1.20 mm \pm 0.1 mm
Conductor material	copper with 99.97% purity
Sheath thickness	0.65 mm \pm 0.05 mm
Sheath colour	orange RAL 2003
Cable diameter	7.5 mm \pm 0.5 mm
Net cable weight	59.4 kg/km

Electrical parameters

NVP	67%
Propagation delay	480 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 Ω x km
Resistance imbalance	\leq 2%

Electrical parameters of Solarix unshielded category 6A cable (at 20 °C).

f (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	PSAACR-F (dB/100m)	ACR-F (dB/100m)	PSACR-F (dB/100m)	Return Loss (dB)
1	-	74.3	72.3	67.0	67.8	64.8	20.0
4	3.8	65.3	63.3	66.2	55.8	52.8	23.0
8	5.3	60.8	58.8	60.1	49.7	46.7	24.5
10	5.9	59.3	57.3	58.2	47.8	44.8	25.0
16	7.5	56.2	54.2	54.1	43.7	40.7	25.0
20	8.4	54.8	52.8	52.2	41.8	38.8	25.0
25	9.4	53.3	51.3	50.2	39.8	36.8	24.3
31,25	10.5	51.9	49.9	48.3	37.9	34.9	23.6
62,5	15.0	47.4	45.4	42.3	31.9	28.9	21.5
100	19.1	44.3	42.3	38.2	27.8	24.8	20.1
200	27.6	39.8	37.8	32.2	21.8	18.8	18.0
250	31.1	38.3	36.3	30.2	19.8	16.8	17.3
300	34.3	37.1	35.1	28.7	18.3	15.3	16.8
500	45.3	33.8	31.8	24.2	13.8	10.8	15.2

Installation and storage

Min. bending radius during installation	4x cable diameter
Max. tensile strength	100 N (4 x 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	500 m/reel
Number of reels per pallet	27
Reel size (Ø x h)	380 x 390 mm
Pallet dimensions (w x d x h)	1140 x 1140 x 1280 mm
Pallet weight	902 kg
Batch and product numbers bar code	IDAutomation Code 39, ANSI/ISO/AIM specification
EAN bar code	EAN-13

Cable label


CE
0200

Product Code:
Kód produktu:
Kod výrobu:



* 2 6 0 0 0 0 3 9 *

Batch No.:
Číslo šarže:
Numer partii:



* 1 0 1 7 1 6 4 5 *


SOLARIX

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24

DoP: M308-SXKD-6A-UTP-LSOHFR-B2ca-01

EN 50575:2014 including A1:2016

SXKD-6A-UTP-LSOHFR-B2ca
Installation Cable/Instalační kabel/Kabel instalacyjny
Solarix CAT6A UTP LSOHFR B2_{ca}-s1a,d1,a1 500m



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Product info/Info o produktu/Info o produkcie:
www.solarix.info, info@solarix.info
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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,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 B2_{ca}-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.

We recognize the importance of regular checks of Solarix products that customers use in their networks. That is why we have the electrical parameters of our cables and connecting hardware tested by independent laboratories. Certificates issued by these authorities are an important part of our Solarix product support and guarantee products reliability to our customers. This is also true for the SXXD-6A-UTP-LSOHFR-B2ca cable, which has been tested by the FORCE TECHNOLOGY laboratory as part of the EC VERIFIED certification program.

Related products

Product Number	Type Number	Description
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
23100101	SX9-1-0-WH	Solarix Modular Wall Outlet for 1 Keystone, White
23100102	SX9-2-0-WH	Solarix Modular Wall Outlet for 2 Keystones, White
23100103	SX9-3-0-WH	Solarix Modular Wall Outlet for 3 Keystones, White
23100201	SXF-M-1-22.5-WH-P	French Style Module Solarix 22.5 x 45mm for 1 Keystone, 90°
23100202	SXF-M-1-45-WH-P	French Style Module Solarix 45 x 45mm for 1 Keystone, 90°
23100203	SXF-M-2-45-WH-P	French Style Module Solarix 45 x 45mm for 2 Keystones, 90°
23100204	SXF-M-2-45-WH-U	French Style Module Solarix 45 x 45mm for 2 Keystones, 45°
23100206	SXF-M-1-22.5-WH-U	French Style Module Solarix 22.5 x 45mm for 1 Keystone, 45°
25286906	SXKJ-10G-UTP-RAL-SA	10G Keystone Solarix CAT6A UTP RJ45 Colour Modules Toolless
28770xxx	C6A-315GY-yyMB	10G Patch Cable CAT6A SFTP yy (length) Grey Non-Snag-Proof
28830xxx	C6A-315BU-yyMB	10G Patch Cable CAT6A SFTP yy (length) Blue Non-Snag-Proof
28840xxx	C6A-315YE-yyMB	10G Patch Cable CAT6A SFTP yy (length) Yellow Non-Snag-Proof
28850xxx	C6A-315GR-yyMB	10G Patch Cable CAT6A SFTP yy (length) Green Non-Snag-Proof
28860xxx	C6A-315RD-yyMB	10G Patch Cable CAT6A SFTP yy (length) Red Non-Snag-Proof

