

# SOLARIX CATEGORY 6A

## Installation Cables

SXKD-6A-STP-LSOHFR-B2ca



LSOH Sheath	IEC 60754-2, IEC 61034-2, IEC 60332-1-2, EN 50575, EN 13501, Reaction to fire D <sub>ca</sub> s1 d2 a1
LSOHFR Sheath	IEC 60754-2, IEC 61034-2, IEC 60332-3-24, EN 50575, EN 13501, EN 50399 Reaction to fire B2 <sub>ca</sub> s1 d1 a1
Applicable Standards	ISO/IEC 11801, IEC 61156-5, EN 50173-1, EN 50173-2, EN 50288-10-1
Conductor Type and Size	Bare copper wire 0.565 mm
Insulation	Polyethylene
Wire Diameter with Insulation	1.33 mm
Cable Diameter	7.4 mm (LSOH), 7.5 mm (LSOHFR) and 7.3 mm (PE)
Weight	52 kg/km (LSOH), 55 kg/km (LSOHFR) and 46 kg/km (PE)
Colour	Grey RAL 7035 (LSOH) or orange RAL 2003 (LSOHFR)
NVP	75 %
Propagation delay	480 ns/100 m
Delay skew	≤45 ns/100 m
Storage/Operation Temperature	-20 to 60 °C (LSOH, LSOHFR), -20 to 70 °C (PE)
Installation Temperature	0 to +50 °C

This Solarix cable for Category 6A and Class E<sub>A</sub> systems is manufactured to the highest quality standards. It easily exceeds the performance specifications for Category 6A/Class E<sub>A</sub> defined in the ANSI/TIA 568, ISO/IEC 11801, and EN 50173 standards for Category 6A/Class E<sub>A</sub>. The Solarix Category 6A installation cable is designed using high performance materials and special aluminum foil shielding around each individual pair to guarantee maximum reliability. The cable is tested up to 500 MHz and ensures excellent Alien Cross Talk elimination. This Category 6A/Class E<sub>A</sub> cable is especially suitable for all new high-speed and high-bandwidth data protocols, such as 10GBASE-T. Sheath material is supported by fire retardant, low smoke, halogen free, and CPR rated compounds - i.e. LSOH (reaction to fire D<sub>ca</sub> s1 d2 a1) and LSOHFR (reaction to fire B2<sub>ca</sub> s1 d1 a1).

Part No.	Description
SXKD-6A-STP-LSOH	Installation Cable Solarix Category 6A STP LSOH D <sub>ca</sub> s1 d2 a1
SXKD-6A-STP-LSOHFR-B2ca	Installation Cable Solarix Category 6A STP LSOHFR B2 <sub>ca</sub> s1 d1 a1
SXKD-6A-STP-PE	Installation Cable Solarix Category 6A STP PE F <sub>ca</sub>

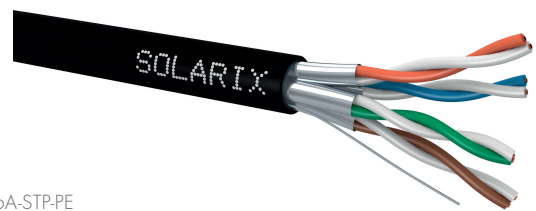


Solarix Category 6A Installation Cables Transmission Characteristics (at 20°C)

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	1,98	93,94	91,70	479,69	92,01	89,29	31,08
4	3,59	96,68	93,19	462,20	94,10	90,15	35,28
8	4,95	93,93	90,89	457,08	92,04	87,80	33,99
10	5,52	94,69	91,36	455,77	89,01	86,57	33,22
16	7,03	93,18	90,17	453,46	87,03	83,49	33,46
20	7,92	88,94	87,46	452,53	88,22	85,63	30,52
25	8,95	96,08	93,46	451,71	84,24	81,75	31,56
31,25	10,08	96,06	91,93	450,97	83,40	81,59	31,32
62,5	14,38	92,33	88,01	449,14	78,01	74,47	35,29
100	18,25	87,75	85,05	448,21	75,83	71,53	31,44
200	26,08	78,52	74,34	447,18	60,74	57,83	33,21
250	29,26	74,26	69,77	446,92	61,21	57,76	31,07
300	32,16	72,36	68,57	446,73	58,66	55,13	29,67
400	37,54	69,07	67,07	446,46	43,60	41,58	27,03
500	42,26	72,83	70,26	446,27	42,92	39,76	23,32



SSKD-6A-STP-LSOH



SSKD-6A-STP-PE

