



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 _{ca} s1 d2 a1 and D _{ca} s2 d2 a1
LSOHFR Sheath	IEC 60754-2, IEC 61034-2, IEC 60332-3-24, EN 50575, EN 13501, EN 50399 Reaction to fire B2 _{ca} 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 0.56 mm ± 0.005 mm
Insulation	Skin-foam-skin PE
Wire Diameter with Insulation	1.33 mm
Cable Diameter	7,4 mm (STP LSOH), 7,5 mm (STP LSOHFR and FFTP LSOH), 7,3 mm (STP PE)
Weight	52 kg/km (STP LSOH), 55 kg/km (STP LSOHFR and FFTP LSOH), 46 kg/km (STP PE)
Colour	Grey RAL 7035 (LSOH), orange RAL 2003 (LSOHFR), black RAL 9005 (PE)
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

These Solarix cables for Category 6A and Class EA systems are manufactured to the highest quality standards. They easily exceeds the performance specifications for Category 6A/Class E_A defined in the ANSI/TIA 568, ISO/IEC 11801, and EN 50173 standards for Category 6A/Class E_A. The Solarix Category 6A installation cables are designed using high performance materials and special aluminum foil shielding around each individual pair to guarantee maximum reliability. The cables are tested up to 500 MHz and therefore ensure excellent Alien Cross Talk elimination. These Category 6A/Class E_A cables are 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_{ca} s1 d2 a1 and D_{ca} s2 d2 a1), LSOHFR (reaction to fire B2_{ca} s1 d1 a1), and PE (reaction to fire F_{ca}) for outdoor cables.

Part No.	Description
SXKD-6A-STP-LSOH	Installation Cable Solarix Category 6A STP LSOH D _{ca} s1 d2 a1
SXKD-6A-STP-LSOHFR-B2ca	Installation Cable Solarix Category 6A STP LSOHFR B2 _{ca} s1 d1 a1
SXKD-6A-STP-PE	Installation Cable Solarix Category 6A STP PE F _{ca}
SXKD-6A-FFTP-LSOH	Installation Cable Solarix Category 6A FFTP LSOH D _{ca} s2 d2 a1



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



SXKD-6A-STP-LSOH



SXKD-6A-FTP-LSOH



SXKD-6A-STP-PE

