



SOLARIX CATEGORY 7A

Installation Cables

SXKD-7A-1200-SSTP-LSOHFR-B2ca



10 Gbps

1,200 MHz

FORCE

LSOH Sheath	IEC 60754-2, IEC 61034-2, IEC 60332-1-2, EN 50575, EN 13501, Reaction to fire C _{ca} s1 d1 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 50288-9-1
Conductor Type and Size	Bare copper wire 0.58 mm ± 0.005 mm
Insulation	Skin-foam-skin PE
Wire Diameter with Insulation	1.35 mm
Cable Diameter	7.8 mm (LSOH) and 8.0 mm (LSOHFR)
Weight	59 kg/km (LSOH) and 65 kg/km (LSOHFR)
Colour	Orange RAL 2003
NVP	79 %
Propagation delay	480 ns/100 m
Delay skew	≤25 ns/100 m
Storage/Operation Temperature	-20 to +60 °C
Installation Temperature	0 to +50 °C

These Solarix double shielded installation cables comply with the most stringent structured cabling specifications. They easily exceed the requirements specified in the ISO/IEC 11801 and EN 50173 standards for Category 7A/Class F_A cables. Selected design of these cables goes hand-in-hand with the best quality which, with strictly controlled production, guarantees the highest performance. The Solarix Category 7A installation cables are produced in S-STP configuration and are tested up to 1,200 MHz. Their excellent performance ensures full compatibility with all new high-speed data protocols, such as 10GBASE-T. Foamed PE insulated conductors have the pairs shielded by aluminium foil and copper braid. Sheath material is supported by fire retardant, low smoke, halogen free, and CPR rated compounds - i.e. LSOH (reaction to fire C_{ca} s1 d1 a1) and LSOHFR (reaction to fire B2_{ca} s1 d1 a1).

Part No.

Description

SXKD-7A-1200-SSTP-LSOH

Installation Cable Solarix Category 7A SSTP LSOH C_{ca} s1 d1 a1 1,200 MHz

SXKD-7A-1200-SSTP-LSOHFR-B2ca

Installation Cable Solarix Category 7A SSTP LSOHFR B2_{ca} s1 d1 a1 1,200 MHz

Solarix Category 7A 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	1.96	101.31	98.99	479.69	100.33	97.29	32.15
4	3.55	99.51	97.53	462.20	97.74	94.19	34.86
10	5.49	98.28	96.15	455.77	95.54	92.37	40.24
16	7.01	98.32	95.32	453.46	94.81	91.49	39.79
20	7.91	98.90	95.96	452.53	94.95	91.63	42.29
25	8.92	97.99	95.49	451.71	93.53	91.75	41.44
31.25	10.05	102.41	99.82	450.97	97.39	94.81	41.75
62.5	14.38	99.54	97.18	449.14	92.35	89.47	36.67
100	18.24	98.38	96.39	448.21	89.26	86.53	37.54
200	25.99	96.46	94.12	447.18	83.47	80.83	33.34
250	29.18	97.03	95.54	446.92	82.44	79.83	37.69
300	32.09	93.29	91.28	446.73	77.25	74.33	29.27
400	37.27	85.50	83.70	446.46	66.87	62.98	30.36
500	41.88	83.76	81.54	446.27	62.82	59.76	27.87
600	45.96	84.49	81.92	446.07	61.51	59.50	25.62
1,000	60.09	81.45	78.85	444.93	51.41	49.07	22.33
1,200	61.29	80.80	77.69	444.92	50.16	47.95	20.30

