

# SOLARIX CATEGORY 6

## Installation Cables

SXKD-6-FTP-LSOH



2.5/5 Gbps

250 MHz

LSOH Sheath	IEC 60754-2, IEC 61034-2, IEC 60332-1-2, EN 50575, EN 13501, Reaction to fire D <sub>ca</sub> s2 d2 a1
LSOHFR Sheath	IEC 60754-2, IEC 61034-2, IEC 60332-1-2, 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 50288-5-1/EN 50288-6-1
Conductor Type and Size	Bare copper wire 0.55 mm ±0.005 mm (UTP), 0.565 mm ±0.005 mm (FTP)
Insulation	HDPE
Wire Diameter with Insulation	0.98 mm (UTP) and 1.12 mm (FTP)
Cable Diameter	6.1 mm (UTP), 6.6 mm (UTP LSOHFR) and 7.4 mm (FTP)
Weight	43 kg/km (UTP), 54 kg/km (UTP LSOHFR) and 55 kg/km (FTP)
Colour	Grey RAL 7035 (PVC), Purple RAL 4005 (LSOH), Orange RAL 2003 (LSOHFR), Black RAL 9005 (PE)
NVP	69 %
Propagation delay	535 ns/100 m
Delay skew	≤45 ns/100 m
Storage Temperature	-20 to +60 °C (PVC, LSOH, LSOHFR), -20 to +70 °C (PE)
Operation Temperature	-20 to +60 °C (PVC, LSOH, LSOHFR), -20 to +70 °C (PE)
Installation Temperature	0 to +50 °C

Both unshielded and shielded Solarix Category 6 cables are carefully manufactured installation cables that provide high level of transmission performance to meet the needs of today's computer networks. They easily exceed the requirements of the ANSI/TIA 568C.2, ISO/IEC 11801, and EN 50173 performance standards. The cable conductor is AWG 23 bare copper wire with high density polyethylene insulation. The non-metallic cross separator inside the Solarix Category 6 cables ensures the best crosstalk elimination between individual pairs. Sheath material is supported by different types of CPR rated compounds – i.e. PVC (reaction to fire E<sub>ca</sub>), LSOH (reaction to fire D<sub>ca</sub> s2 d2 a1), LSOHFR (reaction to fire B2<sub>ca</sub> s1 d1 a1), and PE (reaction to fire F<sub>ca</sub>).

### Part No.

### Description

SXKD-6-UTP-PVC	Installation Cable Solarix Category 6 UTP PVC E <sub>ca</sub>
SXKD-6-UTP-LSOH	Installation Cable Solarix Category 6 UTP LSOH D <sub>ca</sub> s2 d2 a1
SXKD-6-UTP-LSOHFR-B2ca	Installation Cable Solarix Category 6 UTP LSOHFR B2 <sub>ca</sub> s1 d1 a1
SXKD-6-UTP-PE	Installation Cable Solarix Category 6 UTP PE F <sub>ca</sub>
SXKD-6-FTP-PVC	Installation Cable Solarix Category 6 FTP PVC E <sub>ca</sub>
SXKD-6-FTP-LSOH	Installation Cable Solarix Category 6 FTP LSOH D <sub>ca</sub> s2 d2 a1
SXKD-6-FTP-PE	Installation Cable Solarix Category 6 FTP PE F <sub>ca</sub>



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Transmission Characteristics acc. to Category 6 (at 20 °C)

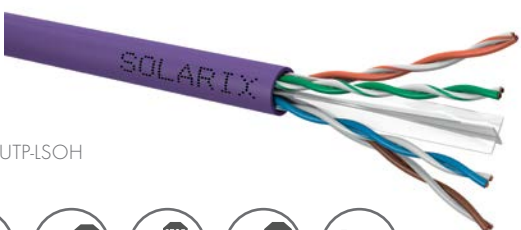
f (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	Prop. Delay (ns/100m)	ACR-F (dB/100m)	PSACR-F (dB/100m)	Return Loss (dB)
1	1.75	87.20	83.63	534.95	87.93	83.01	27.75
4	3.51	76.90	77.80	528.37	71.52	70.01	34.81
8	5.00	71.57	68.79	523.19	63.49	62.18	36.74
10	5.60	70.42	68.36	521.88	61.32	60.05	37.94
16	7.12	67.36	65.25	519.54	63.64	61.87	37.03
20	8.00	65.44	61.39	518.61	57.13	56.48	38.16
25	8.96	61.46	60.40	517.77	53.56	52.99	35.84
31.25	10.05	59.02	58.49	517.03	56.37	52.51	35.69
62.5	14.41	57.38	56.03	515.18	48.64	45.33	31.60
100	18.28	59.26	57.21	514.24	43.97	42.13	32.86
200	26.24	52.37	49.45	513.21	36.61	35.86	23.74
250	29.50	57.47	53.41	512.94	39.59	35.94	22.54



SXKD-6-UTP-PVC



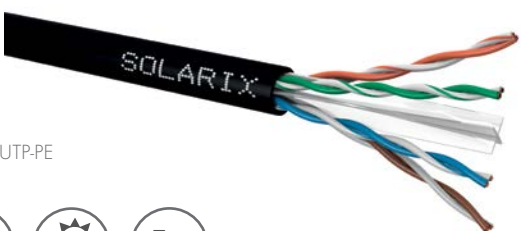
SXKD-6-UTP-LSOHFR-B2ca



SXKD-6-UTP-LSOH



SXKD-6-FTP-PVC



SXKD-6-UTP-PE



SXKD-6-FTP-PE

