



# SOLARIX CATEGORY 5E

## Installation Cables

SXKD-5E-FTP-LSOHFR-B2ca



2.5/5 Gbps

100 MHz

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
Applicable Standards	ISO/IEC 11801, IEC 61156-5, EN 50173-1, EN 50173-2, EN 50288-2-1/EN 50288-3-1
Conductor Type and Size	Bare copper wire 0.50 mm ± 0.005 mm
Insulation	HDPE
Wire Diameter with Insulation	0.88 mm (UTP) and 1.0 mm (FTP)
Cable Diameter	5.0 mm (UTP), 6.2 mm (FTP) 6.4 mm + 2.6 mm (FTP self-supporting) 7.4 mm (FTP double jacket)
Weight	31 kg/km (UTP), 40 kg/km (FTP LSOH), and 46 kg/km (FTP LSOHFR) 56 kg/km (FTP self-supporting) 54 kg/km (FTP double jacket)
Colour	Grey RAL 7035 (PVC), Purple RAL 4005 (LSOH), Orange RAL 2003 (LSOHFR), Black RAL 9005 (PE)
NVP	68 %
Propagation delay	535 ns/100 m
Delay skew	≤ 45 ns/100 m
Storage/ Operation Temperature	-20 to +60 °C (PVC, LSOH, LSOHFR), -20 to +70 °C (PE)
Installation Temperature	0 to +50 °C

Supplied as a part of complete Solarix Category 5E solution, these cables represent one of the key elements for safety and economical data transfers. All parameters exceed requirements specified by the ANSI/TIA 568C.2, ISO/IEC 11801, and EN 50173 performance standards. The cable conductor is AWG 24 bare copper wire with high density polyethylene insulation. 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> s1 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-5E-UTP-PVC	Installation Cable Solarix Category 5E UTP PVC E <sub>ca</sub>
SXKD-5E-UTP-LSOH	Installation Cable Solarix Category 5E UTP LSOH D <sub>ca</sub> s1 d2 a1
SXKD-5E-UTP-PE	Installation Cable Solarix Category 5E UTP PE F <sub>ca</sub>
SXKD-6-FTP-PEG	Installation Cable Solarix Category 5E UTP PE jelly filled F <sub>ca</sub>
SXKD-5E-FTP-PVC	Installation Cable Solarix Category 5E FTP PVC E <sub>ca</sub>
SXKD-5E-FTP-LSOH	Installation Cable Solarix Category 5E FTP LSOH D <sub>ca</sub> s1 d2 a1
SXKD-5E-FTP-LSOHFR	Installation Cable Solarix Category 5E FTP LSOHFR B2 <sub>ca</sub> s1 d1 a1
SXKD-5E-FTP-PE	Installation Cable Solarix Category 5E FTP PE F <sub>ca</sub>
SXKD-5E-FTP-PEG-SAM	Installation Cable Solarix Category 5E FTP PE F <sub>ca</sub> self-supporting
SXKD-5E-FTP-PVC+PE	Installation Cable Solarix Category 5E FTP PVC+PE F <sub>ca</sub> double jacket



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Transmission Characteristics acc. to Category 5E (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	1.94	83.24	82.43	534.95	76.30	72.75	32.03
4	3.89	71.20	69.89	516.29	64.02	60.40	33.38
8	5.52	68.88	66.19	510.89	58.02	53.00	35.09
10	6.18	69.88	66.88	509.48	55.08	51.28	36.05
16	7.83	66.11	63.11	507.05	52.09	49.08	43.10
20	8.77	66.90	63.82	506.03	49.66	46.58	41.27
25	9.81	65.40	60.58	505.18	43.65	41.21	40.07
31.25	11.00	57.77	55.07	504.40	45.14	42.54	39.08
62.5	15.67	53.31	51.59	502.45	38.30	35.30	34.07
100	19.86	52.37	50.12	501.44	34.68	31.91	33.31



SXKD-5E-UTP-PVC



SXKD-5E-UTP-LSOH



SXKD-5E-UTP-PEG



SXKD-5E-FTP-PVC



SXKD-5E-FTP-PVC+PE



SXKD-5E-FTP-PE-SAM

