

SOLARIX

CATEGORY 5E

Installation Cables

SXKD-5E-FTP-LSOH



1 Gbps

100 MHz

LSOH Sheath	IEC 60754-2, IEC 61034-2, IEC 60332-1-2, EN 50575, EN 13501, Reaction to fire E _{ca}
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
Insulation	Polyethylene
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) and 40 kg/km (FTP) 56 kg/km (FTP self-supporting) 54 kg/km (FTP double jacket)
Colour	Grey RAL 7035 (PVC), Purple RAL 4005 (LSOH), Black RAL 9005 (PE)
NVP	68 %
Propagation delay	535 ns/100 m
Delay skew	≤45 ns/100 m
Storage Temperature	-20 °C to 60 °C (PVC and LSOH), -20 °C to 70 °C (PE)
Operation Temperature	-20 °C to 60 °C (PVC and LSOH), -20 °C to 70 °C (PE)
Installation Temperature	0 to +50 °C

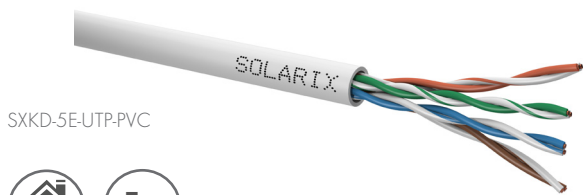
Supplied as a part of complete Solarix Category 5E solution, these cables represent one of the key elements for safety and economical data transfers. All parameters exceed requirements specified by the ANSI/TIA 568C.2, ISO/IEC 11801, and EN 50173 performance standards. The cable conductor is AWG24 bare copper wire with high density polyethylene insulation. Sheath material is supported by different types of CPR rated compounds - i.e. LSOH (reaction to fire E_{ca}), PVC (reaction to fire E_{ca}), and PE (reaction to fire F_{ca}).

Part No.	Description
SXKD-5E-UTP-PVC	Installation Cable Solarix Category 5E UTP PVC E _{ca}
SXKD-5E-UTP-LSOH	Installation Cable Solarix Category 5E UTP LSOH E _{ca}
SXKD-5E-UTP-PE	Installation Cable Solarix Category 5E UTP PE F _{ca}
SXKD-6-FTP-PEG	Installation Cable Solarix Category 5E UTP PE jelly filled F _{ca}
SXKD-5E-FTP-PVC	Installation Cable Solarix Category 5E FTP PVC E _{ca}
SXKD-5E-FTP-LSOH	Installation Cable Solarix Category 5E FTP LSOH E _{ca}
SXKD-5E-FTP-PE	Installation Cable Solarix Category 5E FTP PE F _{ca}
SXKD-5E-FTP-PEG-SAM	Installation Cable Solarix Category 5E FTP PE F _{ca} self-supporting
SXKD-5E-FTP-PVC+PE	Installation Cable Solarix Category 5E FTP PVC+PE F _{ca} double jacket



Transmission Characteristics acc. to Category 5E (at 20°C)

f (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	ACR-N (dB/100m)	PSACR-N (dB/100m)	ACR-F (dB/100m)	PSACR-F (dB/100m)	Return Loss (dB)
1	1.8	100	97	98	95	105	105	-
4	3.4	100	97	97	94	105	102	27
10	5.4	100	97	95	92	97	94	30
16	6.8	100	97	93	90	93	90	30
20	7.7	100	97	92	89	91	88	30
31.2	9.6	100	97	90	87	87	84	30
62.5	13.7	100	97	86	83	81	78	30
100	17.4	100	97	83	80	77	74	30



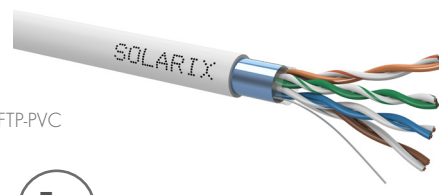
SXXD-5E-UTP-PVC



SXXD-5E-UTP-LSOH



SXXD-5E-UTP-PEG



SXXD-5E-FTP-PVC



SXXD-5E-UTP-PVC+PE



SXXD-5E-FTP-PE-SAM

