

Category 7 S/FTP Outdoor Cable

SPEC SHEET



Part Number: 2153161-1

Description:

TE Connectivity's Category 7 S/FTP outdoor cable exceeds Category 7 performance requirements of ISO/IEC 11801. The cable is double jacketed with a black PE outer sheath, UV resistant and a blue LSZH inner sheath with in between a layered aluminium band, serving as a moisture barrier. The pairs are individually foil shielded with the 4 pairs together wrapped in a braided shield.

Application:

10Gigabit Ethernet, Gigabit Ethernet 1000Base-T, Fast Ethernet 100Base-T, Ethernet 10Base-T, Token Ring, ATM 155 Mbps, TP-PMD 100 Mbps, ISDN, analog (broadband, baseband) and digital video and analog and digital (VoIP) voice.

Appropriate for direct burial and cable duct installation.

Description	Cu conductors	Nominal Diameter outside	Vp (nom%)	Weight	Package	Colour	Part Number
4-Pair LSZH	AWG 23	11.5 mm	79	126 kg/km	1000m RL	black	2153161-1

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Performance Characteristics (exceed ISO/IEC 11801 Category 7):

Freq. (MHz)	Attenuation (dB/100m)	ACR-N (dB)	NEXT (dB)		PSNEXT (dB)		PSELFEXT (dB)		RL (dB)	
	Typical	Typical	Min.	Typical	Min.	Typical	Min.	Typical	Min.	Typical
1	1,9	93,0		94,9		88,8		91,3		31,48
4	3,6	102,7	78,0	106,3	75,0	102,0	75,0	92,8	23,0	31,04
10	5,4	102,0	78,0	107,4	75,0	96,3	71,0	88,7	25,0	26,95
16	6,9	101,8	78,0	108,6	75,0	100,0	66,9	87,0	25,0	30,86
20	7,6	95,9	78,0	103,5	75,0	94,5	65,0	86,5	25,0	30,25
31,25	9,7	89,8	78,0	99,5	75,0	95,6	61,1	83,2	25,0	36,68
62,5	13,7	83,0	75,1	96,7	72,5	91,2	55,1	81,3	25,0	34,92
100	17,5	89,8	72,4	107,3	69,4	95,0	51,0	75,4	23,0	30,35
300	30,7	74,4	65,3	105,1	62,3	92,5	41,5	69,2	20,0	26,49
600	44,0	55,3	60,8	99,3	57,8	89,7	35,4	49,8	18,0	26,84

Min. values are standard requirements on 100m cable in compliance with IEC 61156-5

Impedance up to 100MHz: 100 ohms + 15%

Propagation delay: 420 ns/100 m max. @ ≥ 10 MHz

Delay Skew: 4 ns/100m @ ≥ 10 MHz

Min. Bend radius: during installation : 4 x OD
after installation : 8 x OD

Calorific Value: 2.98 MJ/m

Materials: Conductors : AWG23 – typical 0.58mm solid bare copper
Insulation : Polyethylene
Jacket : inner: LSZH ; layered aluminium band, outer: PE
Inner jacket:
Fire rating : IEC 60332-1
Toxicity : IEC 60754-1
Acid gas : IEC 60754-2
Smoke density: IEC 61034-2

Operating temperature: -20°C to +60°C

Installation temperature: 0°C to +50°C

N.B.: Specifications subject to change without notice.

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