



Connectix Category 6A U/FTP cable has been designed to provide the exceptional performance required to support extremely high speed applications, including 10-Gigabit Ethernet.

The individually shielded pairs ensure maximum transmission, free from the problems of NEXT and Alien Crosstalk. The sheath is a Low Smoke Zero Halogen material, as specified in many public buildings.

Specification

Application: IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T Standards: EIA/TIA 568B: ISO/IEC 11801 2nd ed.; draft IEC 61156-5 2nd ed.; EN 50173-1; draft EN 50288-10; RoHS2002/95/EC

Fire rating: IEC 60332-1; IEC 60754-1; IEC 60754-2; IEC 61034

Conductor: bare copper wire (AWG 23)

Insulation: Polyethylene, Ø 1.45 mm

Drain wire: Tinned copper

Individual shield around each pair: Alu/Polyester tape

Sheath: LSZH Ivory

Bending radius: ≥ 35 mm without load; ≥ 70 mm with load

Temperature range: during operation -20oC upto + 60oC
 during installation 0oC upto + 50oC

Outer diameter: 8.0 mm

Fire Load: 674 MJ/km; 0.187 kWh/m

Weight: 57 kg/km

Drum weight (Loaded 500m): 32kg

Max pulling tension: 78N

Specification

DC loop resistance: 146.4 Ω /km

Resistance unbalance: ≤ 2%

Insulation resistance (500 V) ≥ 5000 MΩ/km

Capacitance unbalance (pair to ground) ≤ 1600 pF/km

Characteristic impedance: @100 MHz 100 ± 5 Ω

Nominal velocity of propagation: approx. 78%

Transfer Impedance (mS/m) 1MHz 10MHz 30MHz 100MHz
 ≤ 50 ≤ 50 ≤ 70 ≤ 100

Ordering Information

Product Description	Part Number
CCS Category 6A U/FTP Solid Cable	001-003-003-06

Transmission characteristics (Nominal according to Category 6A Draft IEC 61156-5 Ed.2 @ 20°C)

f (MHz)	Attenuation (dB/100m)		NEXT (dB)		PS NEXT (dB)		ELFEXT (dB/100m)		PS ELFEXT (dB/100m)		Return Loss (dB)		PS ANEXT (dB)	
	Nominal	Typical	Nominal	Typical	Nominal	Typical	Nominal	Typical	Nominal	Typical	Nominal	Typical	Nominal	Typical
4	3.8	3.6	65.3	90	63.3	87	58	80	55	77	23	25	76.5	85
10	5.9	5.6	59.3	90	57.3	87	50	80	47	77	25	26	72.5	85
20	8.4	8.0	54.8	82	52.8	79	44	77	41	74	25	26	69.5	85
62.5	15	14.2	47.4	75	45.4	72	34.1	71	31.1	68	21.5	23	64.5	85
100	19.1	18.1	44.3	72	42.3	69	30	67	27	64	20.1	22	62.5	80
250	31.1	28.9	38.3	65	36.3	62	22	52	19	49	17.3	19	56.5	73
500	45.3	41.2	33.8	60	31.8	57	16	46	13	43	17.3	18	52	68
550	-	43.5	-	59	-	56	-	45	-	42	-	16	-	67