

CAT 6 4-PAIR UTP SOLID COPPER CABLE

Description

RFI Cat 6 UTP Cable consists of 4 pairs solid copper conductors insulated with High Density Polyethylene (HDPE). Each pair is precisely twisted to minimize crosstalk between the pairs. A Spline or Separator separates each pair to further minimize pair to pair crosstalk. The cable is covered with a Polyvinyl Chloride (PVC) Outer Jacket. Options are available for LSZH and PE.

Application

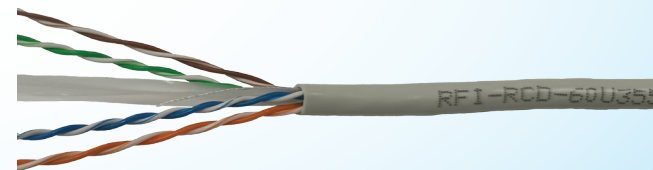
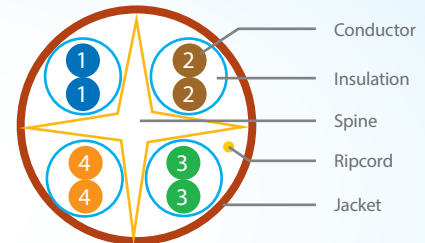
- 100 Base-T4
- 100 Base-TX
- 1000Base-T (Gigabit Ethernet)

Standard

- ANSI/TIA-568.2-D
- ISO 11801 Class E
- IEEE 802.3bt
- IEC 60754-2(Acid Gas)
- IEC 60332-1(Flame)
- IEC 61034-2(Smoke)

Features

- 23 AWG Solid Copper Conductors
- PVC, LSZH, PE Outer Jacket
- RoHS compliance
- ETL verified
- Tested to 350MHz
- Ripcord



Physical Characteristics

Conductor	Material	Solid Bare Copper
	Structure	0.55 ± 0.01mm
	AWG	23
Insulation	Material	HDPE
	Color Code	Brown & White / Brown
		Blue & White / Blue
		Orange & White / Orange
		Green & White / Green
Nom. O.D	0.96 ± 0.1 mm	
Min Thickness	0.23 mm(REF)	
Filler	Material	Rip-Cord
	Construction	3*250D
Central Element	O.D	4.8 mm (REF) + CROSS
Jacket	Outer Sheath	PVC / LSZH / PE
	Average Thickness	0.55 ± 0.05 mm
	Overall Diameter	6.00 ± 0.35mm
	Colour	Optional
Physical Characters	Sheath Normal Temp Tensile Strenght	≥13.5
	Sheath Normal Temp Elongation	≥150
	Insulation Normal Temp Tensile Strenght	≥16
	Insulation Normal Temp Elongation	≥300
	Aging Condition	100 ± 2 , 24h, 7d
	Sheath After Aging Tensile Strenght	≥12.5
	Sheath After Aging Elongation	≥125
	Temperature Rating	-20 -- +75
	Cold Bend	8 x Cable O.D, No visible crack

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Electric Characters	Breaking Strength	≥400N
	Dielectric Strength	≥1.5KV
	Characteristic Impedance (Ω)	100 ± 15
	Direct Current Resistance	9.5
	Direct Current Resistance Unbalance	Internal pair: 2%, Between pair: 4%
	Insulation Resistance	≥5000
	Capacitance Unbalance	≤160
	Mutal Capcitanace	≤5.6pF/100m

Electrical Characteristics

Freq (MHz)	RL (≥dB)	Attn (≤dB)	NEXT (≥dB)	ACRF (≥dB)	PSNEXT (dB)	PS ACRF (dB)	Delay (ns)	ELTCTL (dB)	TCL (dB)	SKEW (n/s)
1.00	20.0	2.0	74.3	67.8	72.3	64.8	570	35.0	40.0	45
4.00	23.0	3.8	65.3	55.8	63.3	52.8	552	23.0	40.0	45
8.00	24.5	5.3	60.8	49.7	58.8	46.7	547	16.9	40.0	45
10.00	25.0	6.0	59.3	47.8	57.3	44.8	545	15.0	40.0	45
16.00	25.0	7.6	56.2	43.7	54.2	40.7	543	10.9	38.0	45
20.00	25.0	8.5	54.8	41.8	52.8	38.8	542	9.0	37.0	45
25.00	24.3	9.5	53.3	39.8	51.3	36.8	541	7.0	36.0	45
30.00	23.8	10.4	52.1	38.3	50.1	35.3	510	5.5	35.2	45
31.25	23.6	10.7	51.9	37.9	49.9	34.9	540	n/s	35.1	45
62.50	215	15.4	47.4	31.9	45.4	28.9	539	n/s	32.0	45
100.00	20.1	19.8	44.3	27.8	42.3	24.8	538	n/s	30.0	45
200.00	18.0	29.0	39.8	21.8	37.8	18.8	537	n/s	27.0	45
250.00	17.3	32.8	38.3	19.8	36.3	16.8	536	n/s	26.0	45
300.00	16.8	36.4	37.1	18.3	35.1	15.3	536	n/s	25.2	45
350.00	16.3	39.8	36.1	16.9	34.1	13.9	536	n/s	24.6	45

Ordering information

Part No.	Description
RCD-60U3554-1yx	Cat 6 4-pair U/UTP Optimax 23 Awg Solid Cable, Star Filler Separator, PVC, 305M/Box
RCD-60U1554-1yx	Cat 6 4-pair U/UTP Optimax 23 Awg Solid Cable, Star Filler Separator, LSZH, 305M/Box
RCD-60U2554-4yx	Cat 6 4-pair U/UTP Optimax 23 Awg Solid Cable, Star Filler Separator, PE, 305M/Drum
RCD-60U3554-2yx	Cat 6 4-pair U/UTP Optimax 23 Awg Solid Cable, Star Filler Separator, PVC, 500M/Drum
RCD-60U1554-2yx	Cat 6 4-pair U/UTP Optimax 23 Awg Solid Cable, Star Filler Separator, LSZH, 500M/Drum
RCD-60U2554-2yx	Cat 6 4-pair U/UTP Optimax 23 Awg Solid Cable, Star Filler Separator, PE, 500M/Drum

*y = 0 - blue, 1 - orange, 2 - aqua, 3 - sky blue, 4 - grey, 5 - white, 6 - red, 7 - black, 8 - yellow, 9 - purple

*x = A, D, K, N

*Other length is available upon request.