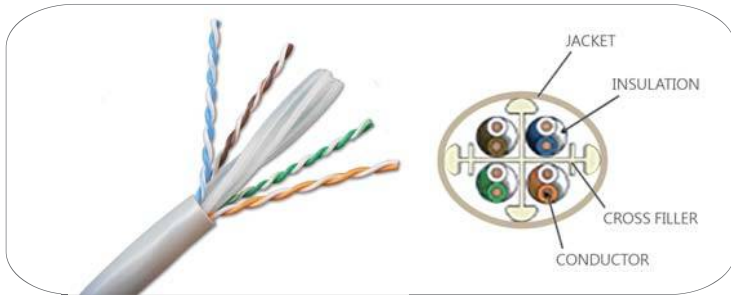


Cat.6A 4 Pair U/UTP Solid Cable



Standards

- ISO/IEC61156-5 2nd edition
- ANSI/TIA-568-C.2 Cabling Standard
- Delta Certified for Category 6A U/UTP Horizontal Cable

Applications

- 10GBASE-T Ethernet
- 100BASE-TX Fast Ethernet
- 1000BASE-TX Gigabit Ethernet
- 1000BASE-T Gigabit Ethernet
- 10BASE-TX Ethernet
- ATM CB1G
- 155/622 Mbps ATM
- 100 Mbps TP-PMD
- 100VG-AnyLAN
- 4/16 Mbps Token Ring
- Voice

Cable Structure

- Twisted pair color code:
 - Pair 1>blue,white/blue ring
 - Pair 2>orange, white/orange ring
 - Pair 3>green, white/green ring
 - Pair 4>brown, white/brown ring
- Central Element: PE Cross Filler
- Jacket Type: PVC / LSZH
- Overall Diameter (mm): 7.8 * 9.1 ± 0.3
- Color: Gray

Technical Data

- Cold bend test: -20 ± 2°C X 4hrs no. crack
- Min. bending radius (mm): 72mm
- Max. pulling tension (lbs): 25lbs
- Jacket Min elongation(%): Before 100%
After Aging 50% (100°C X 168hrs)
- Jacket Min. tensile strength(PSI) : Before 2000psi
After Aging 85% (100°C X 168hrs)
- Insulation Min. tensile strength(PSI) before aging 1300psi
Tensile strength after aging :75% (at 100°C for 48hrs)
- Insulation Min. Elongation before aging 300%(100°C x 48hrs:)
Min. elongation retention after aging: 75% (100°C x 48hrs:)
- Dynamic (Installation) Temperature: -10°C to +60°C
- Static (Operational) Temperature: -10°C to +60°C
- Spark test:2000 ± 250 V ac
- Impedance: 125 Ohm 20%(64KHz). 100 Ohm 15%(1~500MHz)
- D.C.R (Max.) : 9.5Ohm /100m at 20°C
- D.C.R. Unbalance (Max.) : 4% MAX.
- Mutual Capacitance: nom. 5600pf/100m
- Capacitance, unbalance (Max.): 1600 pF/km
- DC Insulation Resistance (Min.): 150M ohm/km
- Dielectric strength: AC 1.7 KV for 2 s

IEC 61156-5 ed.2.0 Category 6A horizontal cable parameters								
Freq. (MHz)	Ins. Loss (dB/100m)	RL (dB)	Pair to Pair		Power Sum		Delay Skew (ns/100m)	Po. Delay (ns/100)
			NEXT	ELFEXT	NEXT	ELFEXT		
			(dB/100m)					
Max.	Min.	Min.	Min.	Min.	Min.	Max.	Max.	
1	2.1	20.0	75.3		72.3		—	570.0
4	3.8	23.0	66.3	56.0	63.3	53.0	45	552.0
10	5.9	25.0	60.3	48.0	57.3	45.0	45	545.4
16	7.5	25.0	57.2	43.9	54.2	40.9	45	543.0
20	8.4	25.0	56.8	42.0	52.8	39.0	45	542.0
31.25	10.5	23.6	52.9	38.1	49.9	35.1	45	540.4
62.5	15	21.5	48.4	32.1	45.4	29.1	45	538.6
100	19.1	20.1	45.3	28.0	42.3	25.0	45	537.6
200	27.6	18.0	40.8	22.0	37.8	19.0	45	536.5
250	31.1	17.3	39.3	20.0	36.3	17.0	45	536.3
300	34.3	17.3	38.1	18.5	35.1	15.5	45	536.1
400	40.1	17.3	36.3	16.0	33.3	13.0	45	535.8
500	45.3	17.3	34.8	14.0	31.8	11.0	45	535.6

1. Conductor resistance (Ω/100m @ 20°C)	Max.	9.5
2. DC resistance unbalance (%)	Max.	4
3. Pair-to-ground capacitance unbalance (pF/km)	Max.	1600
4. Delay skew (ns/100m)	Max.	45 4 ≤ f ≤ 500MHz
5. Insertion Loss (dB/100m)	Max.	1.82 * √f + 0.0091 * f + 0.25/√f 1 ≤ f ≤ 500MHz
6. Pair to Pair NEXT (dB/100m)	Min.	75.3 - 15 * log(f) 1 ≤ f ≤ 500MHz <i>Values greater than 75dB shall be converted to 75dB</i>
7. PowerSum pr-pr NEXT (dB/100m)	Min.	72.3 - 15 * log(f) 1 ≤ f ≤ 500MHz <i>Values greater than 75dB shall be converted to 75dB</i>
8. ELFEXT (dB/100m)	Min.	68 - 20 * log(f) 1 ≤ f ≤ 500MHz <i>Values greater than 75dB shall be converted to 75dB</i>
9. PowerSum ELFEXT (dB/100m)	Min.	65 - 20 * log(f) 1 ≤ f ≤ 500MHz <i>Values greater than 75dB shall be converted to 75dB</i>
10. Return Loss (dB)	Min.	20 + 5 * log(f) 25 10 ≤ f < 20MHz 25 - 7 * log(f / 20) 17.3 20 ≤ f ≤ 250MHz 250 < f ≤ 500MHz
11. Propagation Delay (ns/100m)	Max.	534 + 36 / √f 1 ≤ f ≤ 500MHz
12. Input Impedance (Ω)		100 ± 15% 100 ± 22% 1 ≤ f ≤ 250MHz 250 < f ≤ 500MHz

Ordering Information

Part No.	Description	Jacket	Std Pkg Qty
1101-06003	Cat.6A 4P U/UTP 23AWG Solid Gray - PVC	PVC	305m on a wooden drum
1101-06004	Cat.6A 4P U/UTP 23AWG Solid Gray - LSZH	LSZH	305m on a wooden drum

Note Specifications are subject to change without any notice or obligation on the part of the manufacturer.