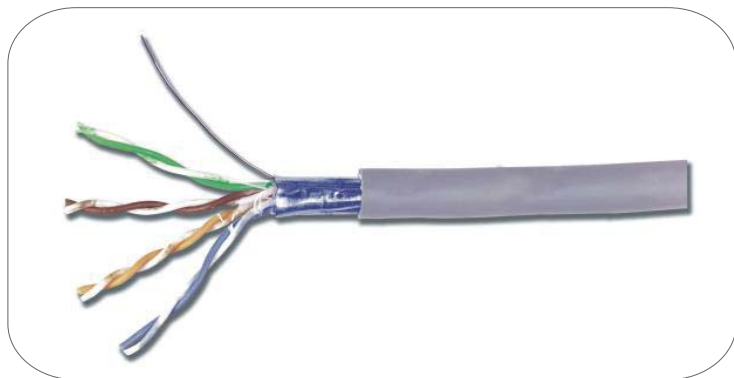


Cat.6 4 Pair F/UTP Solid Cable PVC



Standards

- UL, ETL Verified
- ISO/IEC11801 2nd edition
- ANSI/TIA/EIA Cabling Standard 568-C.2
- CENELEC EN 50173
- IEC 61156-5 edit 2.0

Applications

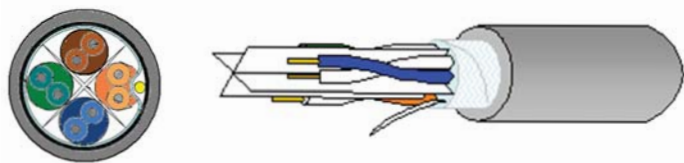
- Voice; T1; ISDN , 550MHz Broadband Video
- 16Mbps Token Ring (IEEE802.5)
- 100VG-AnyLAN (IEEE802.12)
- 155/622Mbps 1.2/2.4 Gbps ATM
- 10BASE-T (IEEE 802.3) / 100BASE-T Ethernet (IEEE802.3)
- 1 Gigabit & 10 Gigabit Ethernet

Compliance Approvals

- DELTA Verified to ANSI/TIA-568-C.2 Category 6

Cable Structure

Solid bare copper conductors insulated with thermoplastics polyolefin. Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit. A cross filler is cabled in between to separate the 4 pairs insulated conductors . Aluminum Polyester Tape over all the 4pairs . Overall jacket with PVC or LSZH options.



Cable Structure

- 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
- Conductor: 23AWG (1x0.55±0.01mm) solid anneal copper wire
- Insulation material: PE
- Diameter of dielectric core: 1.08 ± 0.05mm
- Insulation thickness: min at any point: 0.24mm
- Number of twist pairs: 4 pairs
- Assembly: 4 pairs of dielectric core shall be stranded in circular form.
- Material of jacket: LSZH / PVC
- Central Element: PE cross separator
- Flame rating: CM
- Color: Gray

Physical Characteristics

1. Cold bend test	-20 ± 2°C X 4hrs no. crack	
2. Dielectric strength	AC 1.7 KV for 2S.	
3. Insulation	Before Aging	After aging
Min. Tension strength (psi)	2400	75% before aging (100°C X 48hrs)
Min elongation (%)	300	75% before aging (100°C X 48hrs)
4. Jacket		
Min. Tension strength (psi)	1300	60% before aging (100°C X 168hrs)
Min elongation (%)	100	60% before aging (100°C X 168hrs)
5. Min. bending radius (mm)	55	
6. Max. pulling tension (lbs)	25	
7. Installation temperature	-10°C to +60°C	
8. Operating temperature	-10°C to +60°C	

Electrical Characteristics

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 ≤ 250MHz
5. Insertion Loss (dB/100m)	Max.	1.82*√f + 0.0169*f + 0.25/√f	4 ≤ f ≤ 250MHz
6. Pair to Pair NEXT (dB/100m)	Min.	75.3 - 15 * log(f)	4 ≤ f ≤ 250MHz
7. PowerSum pr-pr NEXT (dB/100m)	Min.	72.3 - 15 * log(f)	4 ≤ f ≤ 250MHz
8. ELFEXT (dB/100m)	Min.	68 - 20 * log(f)	4 ≤ f ≤ 250MHz
9. PowerSum ELFEXT (dB/100m)	Min.	65 - 20 * log(f)	4 ≤ f ≤ 250MHz
10. Return Loss (dB)	Min.	20 + 5 * log(f)	1 ≤ f < 10MHz
		25	10 ≤ f < 20MHz
		25 - 7 * log(f / 20)	20 ≤ f ≤ 250MHz
11. Propagation Delay (ns/100m)	Max.	534 + 36 /√f	4 ≤ f ≤ 250MHz
12. Input Impedance (Ω)		100 ± 15%	1 ≤ f ≤ 100MHz
		100 ± 22%	100 < f ≤ 250MHz

Ordering Information

Part No.	Description	Jacket	Std Pkg Qty
1107-040XX	Cat.6 4P F/UTP 23 AWG Solid PVC Gray	PVC	305m (1,000ft) /reel
1107-040XX	Cat.6 4P F/UTP 23 AWG Solid LSZH Gray	LSZH	305m (1,000ft) /reel

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