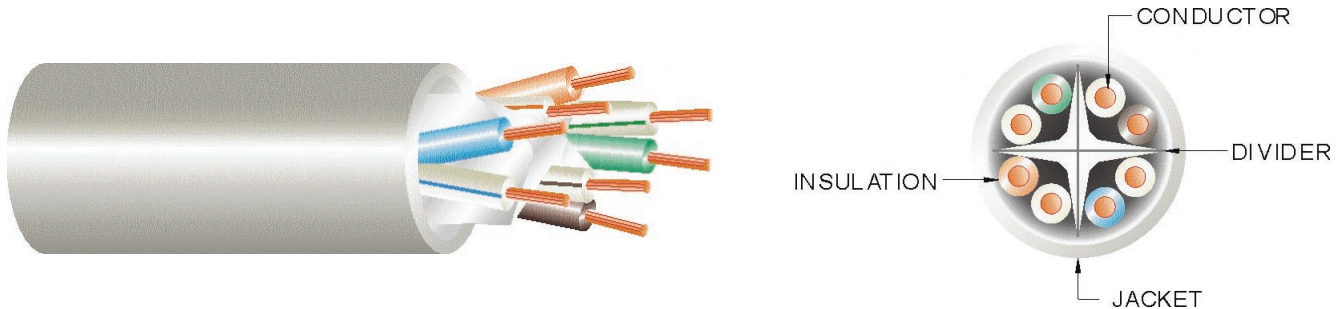


CATEGORY 6 RISER RATED UTP



Description:

Premise Horizontal Cable, 4 Pair UTP, 550MHz Category 6, Riser Rated, 23AWG Solid Bare Copper, Polyolefin Insulation, PVC Jacket, Sequential Marking at One (or Two) Foot Intervals.

Physical Characteristics:

Conductor:

Conductor Material	Solid Bare Copper
Thickness	23AWG
Construction	$1/0.58 \pm 1.008\text{mm}$
Stranding	Solid
Number of Pairs	4
Total Number of Conductors	8

Insulation:

Insulation Material	FR-PE
Min Thickness	0.20mm
AVG Thickness	2.21mm
Diameter	$1.03 \pm 0.05\text{mm}$

Pair Color Code Chart:

1. Blue, White/Blue	2. Orange, White/Orange
3. Green, White/Green	4. Brown, White/Brown

Shielded:

Pair Twist	2 Cores Twist
Divider	PVC Isolator Separator
Assembly Twist	4 Pair Twist

Waterproof Layer:

Material	PVC
Min Thickness	0.52mm
AVG Thickness	0.53mm
Diameter	$5.60 \pm 0.10\text{mm}$

Outer Jacket:

Outer Jacket Material	PVC
Min Thickness	0.24mm
AVG Thickness	0.30mm
Diameter	6.30 ± 0.10mm
Jacket Color:	According to Customer Request

Jacket Marking:

TRT CAT6 GIGASYSTEM E224758 (UL) CM UTP 4PR 23AWG C(UL) VERIFIED TO ISO/IEC 11801 ETL CMP XXXXFT

Electrical & Physical Characteristics:

Rating	75°C 300V
Conductor Resistance	Max 73.2ohm/km at 20°C
Mutual Capacitance	Max 58pF/m
Dielectric Strength	Min AC 1.5KV
Spark Test	2.5KV
Pair-to-Ground Capacitance Unbalance	Max 3300pF/km
Characteristic Impedance	1~550MHz 100 ± 15 Ohm
Structural Return Loss	550MHz Min 8.6dB
Propagation Delay	550MHz Max 30ns.100m
Delay Skew	1~550MHz Max 30ns/100m

Insulation:

Unaged Tensile Strength	2500psi
Unaged Elongation	200%
Aged Tensile Strength	2200psi (100°C 48h)
Aged Elongation	180% (100°C 48h)
Insulation Shrink Back	150mm 121 ± 1°C HR≤9.5mm

Jacket:

Unaged Tensile Strength	2000psi
Unaged Elongation	100%
Aged Tensile Strength	1850psi (100°C 240h)
Aged Elongation	75% (100°C 240h)
Cold Bend Test	-20°C 4 Hours No Cracking
AC Leakage Current Through Overall Jacket	AC 1500V ≤ 10mA
DC Resistance Unbalance	Max 5%

Applicable Specifications and Agency Compliance:**Standards:**

NEC/(UL) Specification	UL 444 UL910
IEC Specification	ISO/IEC 11801 Category 6
TIA/EIA Specification	ANSI-TIA/EIA 568-B.2 Category 6

Flame Test:

Flame Retardant Test	CMP
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Packaging:

Easy Spool In Box

Electrical Characteristics:

Frequency (MHz)	Max. Attenuation (db/100m)	Min. NEXT (db)	Min.ACR (db)	Min. PSNEXT (db)	Min PSACR (db)	Min. Return Loss (db)	Min. PS. ELFEXT (db)	Min. ELFEXT (db)
1	2.0	75.3	73.3	73.3	71.3	20	64.8	67.8
4	3.8	66.3	62.5	64.3	60.5	23	52.7	55.7
8	5.4	61.8	56.4	59.8	54.4	24.5	46.7	49.7
10	6.0	60.3	54.3	58.3	52.3	25	44.8	47.8
16	7.6	57.3	49.7	55.3	47.7	25	40.7	43.7
20	8.5	55.8	47.3	53.8	45.3	25	38.7	41.7
25	9.6	54.3	44.8	52.3	42.7	24.3	36.8	39.8
31.25	10.7	52.9	42.2	50.9	40.2	23.6	34.9	37.9
62.5	15.5	48.4	32.9	46.4	30.9	21.5	28.8	31.8
100	19.9	45.3	25.4	43.3	23.4	20.1	24.8	27.8
155	25.3	42.5	17.2	40.5	15.2	18.8	20.9	23.9
200	29.2	40.8	11.6	38.8	9.6	18	18.7	21.7
250	33.0	39.3	6.3	37.3	4.3	17.3	16.8	19.8
300	36.6	38.2	1.6	36.2	0	16.8	15.2	18.2
400	43.2	36.3	N/A	34.3	N/A	15.9	12.7	15.7
550	52.0	34.2	N/A	32.2	N/A	14.9	9.9	12.9

Note:

Applications: Gigabit Ethernet, 100 BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Video, RS-422, Noisy Environment.