



UTP CAT. 6 - 9040

I. Description Non-Plenum

4 pairs UTP (unshielded twisted pair) cable,
23 AWG solid bare copper,
Polyolefin insulated singles, ripcord,
flexible PVC jacket.

Jacket is sequentially marked at one
meter intervals.

All Proposed Category 6 requirements as per
ANSI/TIA/IEC and CENELEC EN Standards,
ANSI/TIA/EIA 568-B.2-1 CAT.6
ISO/IEC 11801 CLASS E, 2ND Edition
IEC 61156-6

CENELEC EN 50173-1

CENELEC EN 50288-5-1

CENELEC EN 50288-5-2

Flame Retardancy is verified
according to IEC 60332-1-2.

We implemented the
requirement of standar
UL444 & UL1666

II. Applications

Voice, T1, ISDN

10BASE-T, 100BASE-T

Fast Ethernet (IEEE 802.3),

100 VG - anyLAN(IEEE802.12),

155/622 Mbps ATM

550 MHz Broadband Video

1000BASE-T Gigabit Ethernet

III. Physical Characteristics

Conductor:

Material: Bare Copper

Size: 23 AWG

Construction: $1/0.56 \pm 0.02$ mm

Insulation:

Material: FR-HDPE

Thickness: Average: 0.24 mm Min. At any int: 0.18 mm

Diameter: 1.04 ± 0.06 mm

Colors: Blue/White-Blue

Orange/White-Orange

Green/White-Brown

Elongation: Min. 300%

Tensile strength: Min. 1.682 Kg/mm²



(Filler) Cross



(FRPE) Insulation

(CMR) Sheath

Conductor

UTP CAT. 6 - 9040



Jacket:

Material: CMR

Thickness: Average: 0.50 mm

Min. At any point: 0.40 mm

Diameter: 6.3 ± 0.3 mm

Color: Assorted upon request

Elongation: Min. 100%

Tensile strength: Min. 1.407 Kg/mm^2

Flame Test: Burning five times, every time is less than 60 seconds and paper flag can't be burned.

IV. Electrical Characteristics

Typical Operating Voltage: 12 / 24 V DC

Nom. Capacitance @ 1 kHz: 15 pF/ft.

Nom. Velocity of Propagation: 70%

Spark Test: 2000 ± 250 V ac

Dielectric Strength: 2500 V dc / 3 seconds

Insulation Resistance Test: Min. 150 MO/Km

Conductor Resistance: Max. 9.38 O/100m at 20°C

Resistance Unbalance: Max. 2%

Capacitance Unbalance: Max. 330 pF/100m

Mutual Capacitance: Max. 5600 pF/100m

Impedance:

64kHz $1250 \pm 20\%$

1~250MHz $1000 \pm 15\%$

V. Specifications

	Attenuation (dB/100 meters at 20°C), Max.	Next (dB), Min.	Power Sum (dB), Min.
1MHz	--	66.0*	64.0*
4MHz	3.8*	65.3*	63.3*
10MHz	6.0*	59.3*	57.3*
16MHz	7.6*	56.2*	54.2*
20MHz	8.5*	54.8*	52.8*
31.25MHz	10.7*	51.9*	49.9*
62.5MHz	15.5*	47.4*	45.4*
100MHz	19.9*	44.3*	42.3*
155MHz	25.3*	41.4*	39.4*
200MHz	29.2*	39.8*	37.8*
250MHz	33.0*	38.3*	36.3*