

Technical Specification for U/UTP CAT 5E 4PR 24AWG PVC

1. Construction and Materials

1.1 Conductor

- Material: Solid Bare Copper
- Size: 24AWG

1.2 Pairs

4 Pairs

1.3 Insulation

- Thickness: 0.91 mm HDPE
- Material: HDPE
- Colors: Blue-White/Blue, Orange-White/Orange, Green-White/Green, Brown-White/Brown

1.4 Rip Cord

Cotton

1.5 Outer Jacket

- Material: PVC
- Wall Thickness: 0.0157" Nom(0.4mm)
- Outer Diameter (OD): 5.1 ± 0.2 mm

2. Standards Compliance

UL 444 & CSA C22.2 No.214 Communications Cables

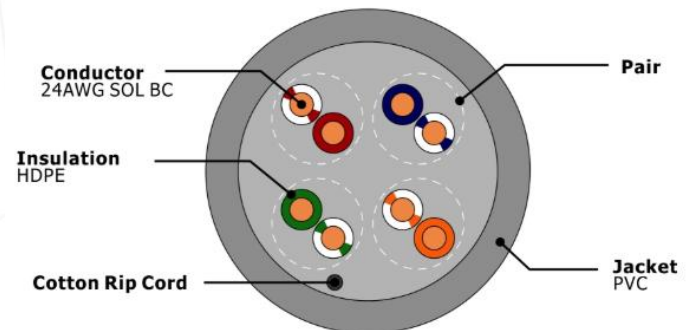
3. Application Support

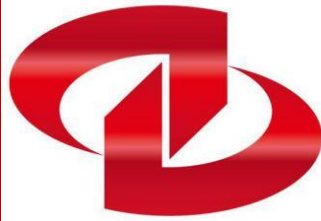
- 1000BASE-T, 1000BASE-TX, 100BASE-T, 100BASE-TX, 100VG-AnyLAN, ATM
- VoIP, ISDN, Token, 100MTPPDM, Analog and Data video, POE Type1,2,3,4

4. Electrical Characteristics

Impedance	1 - 100MHz 100 ± 15 Ohms
Insulation Resistance	$> 5000 \text{ M}\Omega \cdot \text{KM}$
Dielectric strength	DC 2500V 2S
Max.Conductor DC	9.5 Ohms/100m

U/UTP CAT 5E BC PVC





Resistance 20°C

Res. unbalance (%) Max. 2.5

Pair to Ground Capacitance Unbalance 330 pF/100m

Transfer Impedance Max 10 mOhms/m @100Mhz

Installation temp. -30 - 50°C

Operation temp. -20 - 75°C

5. Transmission Performance (100m, 20±2°C)

Frequency	RL (Min.)	Insertion Loss(Max.)	Propagation Delay (Max.)	Delay Skew(Max.)	NEXT (Min.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	20	2.2	570	45	65	62	61	61
4	23	4.2	552	45	56	53	48	48
10	25	6.5	545	45	50	47	41	41
16	25	8.4	543	45	47	44	36	36
20	25	9.3	542	45	45	42	34	34
31.25	23.6	11.6	540	45	42	39	31	31
62.5	21.5	17	539	45	38	35	25	25
100	20.1	22	538	45	35	32	21	21

6. Physical Properties

Parameter	Specification
Pulling Tension (Max)	25 lbs(110N)
Bend Radius (Min)	4 Times the cable diameter
Operating Temperature	-20 to 75 °C (-4 to 167 °F)