



Technical Specification for Outdoor UUTP CAT5e 24AWG PE Ethernet Cable

1. Construction and Materials

1.1 Conductor

- Material: Solid Bare Copper
- Size: 24AWG

1.2 Pairs

4 Pairs

1.3 Insulation

- Thickness: 0.91 ± 0.05 mm HDPE
- Material: HDPE
- Colors: Blue-White/Blue, Orange-White/Orange, Green-White/Green, Brown-White/Brown

1.4 Rip Cord

Kevlar

1.5 Outer Jacket

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

2. Standards Compliance

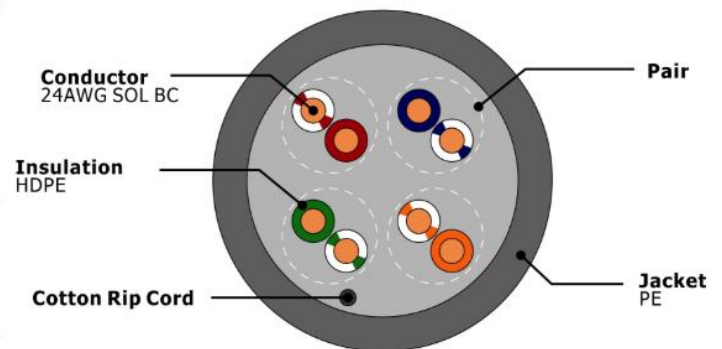
UL 444 & CSA C22.2 No.214 Communications Cables

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

U/UTP CAT 5E BC PE





Parameter	Value
Impedance	1–100MHz: 100±15 Ohms
Insulation Resistance	> 5000MΩ*KM
Dielectric Strength	DC 2500V · 2S
Max. Conductor DC Resistance (20°C)	9.5 Ohms/100m
Resistance Unbalance (%)	Max. 2.5
Pair-to-Ground Capacitance Unbalance	330 pF/100m
Transfer Impedance	Max 10 mOhms/m @100MHz
Installation Temp.	-30 to +50°C
Operation Temp.	-20 to +75°C

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

Frequency (MHz)	RL (Min.) dB	Insertion Loss (Max.) dB/100m	Propagation Delay (Max.) ns/100m	Delay Skew (Max.) ns/100m	NEXT (Min.) dB	PSNEXT (Min.) dB	ELNEXT (Min.) dB/100m	PSELNEXT (Min.) 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)