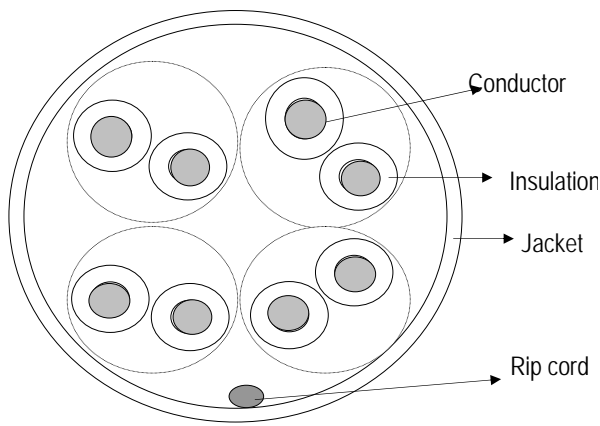


**4PAIR 24AWG CAT.5e 100MHz. CMR UTP CABLE**
**Cross Section**

**Marking**

E#, 4PR 24AWG UTP 75 (UL) CMR - ETL CAT5e enhanced 100 MHz  
TIA/EIA 568B.2 Commodity Cables, Inc. Part No. -Feet marking

**Description**

Rated Temperature( ) 75  
Product Rating UL  
Flammability Test CMR

**Application**

Horizontal or Vertical(Riser) Wiring in LAN

**Reference Standard**

UL subject 444&1666, EIA/TIA568 & ISO/IEC11801

**Construction**

**Conductor** Solid Bare Copper  
AWG 24  
Conductor Dia.(mm) 0.525  
**Insulation** HDPE  
Average Thickness(mm) 0.19  
Min.Point Thickness(mm) 0.17  
Insulation Dia.(±0.02mm) 0.91  
**Twisting Lay Length(mm)** 30underneath  
**Cabling Lay Length(±20mm)** 140  
**Jacket** PVC / Riser  
Average Thickness(mm) 0.5  
Min.Point Thickness(mm) 0.43  
Outer Dia.(±0.2mm) 5.0  
Rip Cord Per request

**Color**
**Insulation colors are:**

Blue, White/Blue  
Orange, White/Orange  
Green, White/Green  
Brown, White/Brown

**Jacket colors:**

Standard e, White, Gray ,Purple, Yellow, Red  
Special Per customer request

**Part No.: 5CMR244Bx**

**Performance**
**Electrical Characteristics:**

Frequency (MHz)	Return loss (dB)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB)
0.772	19.4	1.8	67.0	65.0
1	20.0	2.0	65.3	63.0
4	23.0	4.1	56.3	52.0
8	24.5	5.8	51.8	46.0
10	25.0	6.5	50.3	44.0
16	25.0	8.2	47.3	39.0
20	25.0	9.3	45.8	37.0
25	24.3	10.4	44.3	34.0
31.25	23.6	11.7	42.9	32.2
62.5	21.5	17.0	38.4	22.4
100	20.1	22.0	35.3	13.3

Frequency (MHz)	PSNEXT (dB)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	Delay (ns/100m)
0.772	64.0	66.0	63.0	575.0
1	62.3	63.8	60.8	570.0
4	53.3	51.7	48.7	552.0
8	48.8	45.7	42.7	546.7
10	47.3	43.8	40.8	545.4
16	44.3	39.7	36.7	543.0
20	42.8	37.7	34.7	542.0
25	41.3	35.8	32.8	541.2
31.25	39.9	33.9	30.9	540.4
62.5	35.4	27.8	24.8	538.6
100	32.3	23.8	20.8	537.6

1.0-100.0MH impedance(ohms) 100±15  
1.0-100.0MH Delay Skew(ns/100m) <=45  
Pair-to-Ground Capacitance Unbalance(Pf/100m) <=330  
Max. Conductor DC Resistance 20 (ohms/km) 93.8  
Resistance Unbalance(%) <=5

**Mechanical Characteristics:**

**Test Object** Jacket  
Test Material PVC  
Before Tensile Strength(Mpa) >=13.8  
Aging Elongation (%) >=100  
Aging Condition( xhrs) 100x240  
After Tensile Stength (Mpa) >=85% of unaged  
After Elongation (%) >=50% of unaged  
Cold Bend(-20±2 x4hrs) No crack

**Standard Packaging**


1000' Reellex Box  
20 lbs