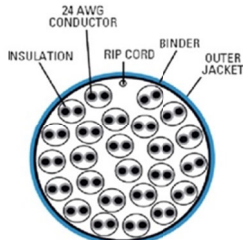


# Category 5E 350MHz UTP 25-Pair Riser (CMR) Cable



### Cable Detail



### Description

24 AWG Unshielded Twisted 25 Pair, High-Performance Data Cable

### Applicable Standards

- ETL Listed Type CMR
- C(ETL) listed CMG FT4
- ETL Verified to TIA - 568-C.2, and ISO/IEC 11801
- RoHS Compliant
- ATM 155 Mbps
- Ethernet 10BASE-T, 100BASE-TX, 100BASE-VG, 100BASE-T4
- 1000 Mbps 1000BASE-T Gigabit Ethernet™ (IEEE 802.3)
- 16 Mbps Token Ring™ (IEEE 802.5)



### Physical Characteristics

Conductor Material	Solid Annealed Bare Copper
Number of Conductor Pairs	25
Size	24 AWG
Stranding	Solid
Insulation Material	HDPE
Overall Diameter	0.0354 in. ± 0.0002 in
Average Thickness	0.00787 in
Jacket Material	Flame Retardant PVC
Average Wall Thickness	0.043 in. ± 0.0002 in.
Nominal Outer Diameter	0.492 in. ± 0.0002 in.
Assembly Diameter	0.413 in.
Twisted Pair Diameter	0.0709 in.
Nominal Weight	138 lbs.
Shield Material	None
Ripcord	Yes

### Mechanical Characteristics

Temperature Rating	Installation	-20°C to + 75°C
	Operating	-20°C to + 75°C
Min. Ben Radius		8 times the O.D.
Max. Pulling Force		25 lbs
Tensile Strength	Before	≥ 13.8 Mpa
	Aging	≥ 100%
Aging Condition		100°C x 168 hours
	After	≥ 85% of unaged
	Aging	≥ 85% of unaged

### Electrical Characteristics

Max. Conductor DC Resistance @ 20°C	9.5 Ω / 100 Meters
Maximum DC Resistance Unbalanced @ 20°C	5%
Max. Pair-to-Pair Ground Capacitance Unbalance	330 pF / 100 Meters
Characteristic Impedance (1 ~ 350 MHz)	100 ± 15 Ω
Mutual Capacitance	5.6 nF / 100 Meters
Max. Delay Skew	40 nS / 100 Meters

### Electrical Performance

Frequency (MHz)	Attenuation (dB/100m) Max.	Return loss (dB) Min.	NEXT (dB) Min.	PS-NEXT (dB) Min.
1	2.0	20.0	65.3	62.3
4	4.1	23.0	56.3	53.3
8	5.8	24.5	51.8	48.8
10	6.5	25.0	50.3	47.3
16	8.2	25.0	47.3	44.3
20	9.3	25.0	45.8	42.8
25	10.4	24.3	44.3	41.3
31.25	11.7	23.6	42.9	39.9
62.5	17.0	21.5	38.4	35.4
100	22.0	20.1	35.3	32.3

Frequency (MHz)	ELFEXT (dB/100m) Min.	PS-ELFEXT (dB) Min.	Delay (ns/100m) Max.	ACR Typ (dB)
1	63.8	60.8	570.0	67.3
4	51.7	48.7	552.0	56.2
8	45.7	42.7	546.7	50.0
10	43.8	40.8	545.4	47.8
16	39.7	36.7	543.0	44.0
20	37.7	34.7	542.0	41.5
25	35.8	32.8	541.2	38.9
31.25	33.9	30.9	540.4	36.2
62.5	27.8	24.8	538.6	27.4
100	23.8	20.8	537.6	19.3

### Insulation Colors

Pair 1	Blue - White	Pair 14	Brown - Black
Pair 2	Orange - White	Pair 15	Gray - Black
Pair 3	Green - White	Pair 16	Blue - Yellow
Pair 4	Brown - White	Pair 17	Orange - Yellow
Pair 5	Gray - White	Pair 18	Green - Yellow
Pair 6	Blue - Red	Pair 19	Brown - Yellow
Pair 7	Orange - Red	Pair 20	Gray - Yellow
Pair 8	Green - Red	Pair 21	Blue - Violet
Pair 9	Brown - Red	Pair 22	Orange - Violet
Pair 10	Gray - Red	Pair 23	Green - Violet
Pair 11	Blue - Black	Pair 24	Brown - Violet
Pair 12	Orange - Black	Pair 25	Gray - Violet
Pair 13	Green - Black		

Part Numbers	Jacket Color	Package
	Grey	1000FT / Reel

### Cable Marking

CATEGORY 5E 350MHZ 24AWG 25 PR UTP XXXXXXXX CMR FT4 C(ETL)US  
ETL LISTED & VERIFIED TO TIA-568-C.2 \*\*\*\*FT