



### 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-
- 1000 Mbps 1000BASE-T Gigabit Ethernet™ (IEEE 802.3)
- 16 Mbps Token Ring™ (IEEE 802.5)

### Physical Characteristics

Number of Conductor Pairs	25
Size	24 AWG
Stranding	Solid
Conductor Material	Solid Annealed Bare
Shield Material	None
Rip Cord	Yes
Insulation Overall Diamet	0.0315 in. ± 0.0002 in.
Insulation Average Thickness	0.00709 in. ± 0.0002 in.
Insulation Material	HDPE
Jacket	Flame Retardant PVC
Outer Jacket Average Wall Thickne:	0.0394 in. ± 0.0002 in.
Outer Jacket Nom. O.D.	0.394 in. ± 0.0002 in.
Assembly Diameter	0.3346 in.
Twisted Pair Diameter	0.06299 in.
Nominal Weight	117 lbs.

### Mechanical Characteristics

Temperature Rating	-20°C to + 75°C
Tensile Strength	> = 13.8 Mpa
Elongation	> = 100%
Aging Condition	100°C x 168 hours
	> = 85% of unaged
	> = 85% of unaged

### Cable Marking

CATEGORY3 24AWG 25 PR UTP XXXXXX CMR C(ETL)US ETL LISTED & VERIFIED TO TIA- 568-C.2 \*\*\*\*FT

### Electrical Performance

Frequency (MHz)	Attenuation (dB/100m)	Return loss (dB)	NEXT (dB)	PS-NEXT (dB)
	Max.	Min.	Min.	Min.
0.772	2.2	12.0	43.0	43.0
1	2.6	12.0	41.3	41.3
4	5.6	12.0	32.3	32.3
10	9.7	12.0	26.3	26.3
16	13.1	10.0	23.3	23.3

  

Frequency (MHz)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Delay (ns/100m)
	Min.	Min.	Max.
1	39.0	39.0	570.0
4	27.0	27.0	552.0
10	19.0	19.0	545.0
16	15.0	15.0	543.0

### Color Code

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

### Electrical Characteristics

Maximum Conductor DC Resistance @ 20°C	13.5 Ω / 100 Meters
Maximum DC Resistance Unbalanced @ 20°C	5%
Maximum 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
Maximum Delay Skew	45 nS / 100 Meters

### Part Numbers

Part Number	Color	Put- up
	Grey	1,000' Reel