



### Description

24 AWG Stranded Twisted Pair, High-Performance Data Cable

### Applicable Standards

- ETL Listed Type CMR
- C(ETL) listed CMG FT4
- ETL Verified to TIA - 568-C.2, UL 444, and ISO/IEC 11801
- ROHS Compliant
- ATM 155 Mbps
- Ethernet 10BASE-T, 100BASE-TX, 100BASE-VG, 100BASE-T4,
- 1000 Mbps 100BASE-T Gigabit Ethernet™ (IEEE 802.3)
- 16 Mbps Token Ring™ (IEEE 802.5)

### Physical Characteristics

Number of Conductor Pairs	4
Size	24 AWG
Stranding	Solid (7)
Conductor Material	Stranded Bare Copper
Shield Material	Unshielded
Rip Cord	Yes
Insulation Material	Polyethylene
Insulation Overall Diameter	0.0385 in. ± 0.001 in.
Insulation Average Thickness	0.0075 in.
Jacket	Flame Retardant PVC
Outer Jacket Average Wall Thickness	0.0236 in.
Outer Jacket Nom. O.D.	0.212 in.
Nominal Weight	23 lbs.

### Mechanical Characteristics

Temperature Rating	Installation	0 to + 60°C
	Operating	-20°C to + 75°C
Min. Ben Radius		2.2 in.
Max. Pulling Force		25 lbs
Tensile Strength	Before	> = 13.8 Mpa
Elongation	Aging	> = 100%
Aging Condition		100°C x 168 hours
	After	> = 85% of unaged
	Aging	> = 50% of unaged

### Color Code

Pair 1	White/Blue	Blue
Pair 2	White/Orange	Orange
Pair 3	White / Green	Green
Pair 4	White / Brown	Brown

### Cable Marking

CATEGORY 5E 350MHZ STRANDED 24AWG 4 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.
1	2.4	17.0	65.3	62.3
4	4.9	18.8	56.3	53.3
8	6.9	19.7	51.8	48.8
10	7.8	20.0	50.3	47.3
16	9.9	20.0	47.3	44.3
20	11.1	20.0	45.8	42.8
25	12.5	19.3	44.3	41.3
31.25	14.1	18.6	42.9	39.9
62.5	20.4	16.5	38.4	35.4
100	26.4	15.1	35.3	32.3

Frequency (MHz)	ELFEXT (dB/100m)	Delay (ns/100m)
	Min.	Max.
1	63.8	570.0
4	51.7	552.0
8	45.7	546.7
10	43.8	545.4
16	39.7	543.0
20	37.7	542.0
25	35.8	541.2
31.25	33.9	540.4
62.5	27.8	538.6
100	23.8	537.6

### Electrical Characteristics

Maximum Conductor DC Resistance @ 20°C	9.38 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	40 nS / 100 Meters

### Part Numbers

Part Numbers	Color	Put-up
5E04URBL2-S	Blue	1,000' Reel
5E04URGY2-S	Grey	1,000' Reel
5E04URWH2-S	White	1,000' Reel