



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 100BASE-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 Copper
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 Thicknes	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	104 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 XXXXXXXX CMR C(ETL)US
FT4 ETL LISTED & VERIFIED TO TIA-568-C.2 ****FT

Electrical Performance

Frequency (MHz)	Attenuation (dB/100m) Max.	Return loss (dB) Min.	NEXT (dB) Min.	PS-NEXT (dB) 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) Min.	PS-ELFEXT (dB/100m) Min.	Delay (ns/100m) 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 Unbalanced	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 #	Color	Put- up
3-25UR GY -2	Grey	1,000' Reel