



### Description

24 AWG Shielded Twisted Pair, High-Performance Data Cable

### Applicable Standards

- ETL Listed CMR Type FTP
- C(ETL) listed FT4 FTP
- 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	4
Size	24 AWG
Stranding	Solid
Conductor Material	Solid Annealed Bare Copper
Shield Material	Al Foil Shield
Rip Cord	Yes
Insulation Material	Polyethylene
Insulation Overall Diameter	0.0381 in. ± 0.001 in.
Insulation Average Thickness	0.009 in.
Jacket	Flame Retardant PVC
Outer Jacket Average Wall Thickness	0.0236 in.
Outer Jacket Nom. O.D.	0.242 in.
Nominal Weight	30 lbs.

### Mechanical Characteristics

Temperature Rating	Installation	0 to + 60°C
	Operating	-20°C to + 75°C
Min. Ben Radius		1.0 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

E223070W 24AWG 4 PR FTP  
 CATEGORY 5E 350MHZ 3147705 CMR C(ETL) US FT4  
 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	2.0	20.0	68.3	66.3
4	4.1	23.0	59.3	57.3
8	5.8	24.5	54.8	52.8
10	6.5	25.0	53.3	51.3
16	8.2	25.0	50.3	48.3
20	9.3	25.0	48.8	46.8
25	10.4	24.3	47.3	45.3
31.25	11.7	23.6	45.9	43.6
62.5	17.0	21.5	41.4	39.4
100	22.0	20.1	38.3	36.3
155	28.1	18.8	35.5	33.5
200	32.4	18.0	33.8	31.8
240	36.0	17.4	32.6	30.6
300	41.0	16.8	31.2	29.2
350	44.9	16.3	30.1	28.1

Frequency (MHz)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Delay (ns/100m)
	Min.	Min.	Max.
1	63.8	60.8	570.0
4	51.7	48.7	552.0
8	45.7	42.7	546.7
10	43.8	40.8	545.4
16	39.7	36.7	543.0
20	37.8	34.8	542.0
25	35.8	32.8	541.2
31.25	33.9	30.9	540.4
62.5	27.8	24.8	538.6
100	24.0	21.0	537.6
155	20.0	17.0	
200	17.7	14.7	
240	16.2	13.2	
300	14.2	11.2	
350	12.9	9.9	

\* Values above 100MHz are information only

### 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 Unbalanced	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 #	Color	Put-up
5E04SR BL -1	Blue	1,000' Pull Box
5E04SR GY -1	Grey	1,000' Pull Box
5E04SR WH -1	White	1,000' Pull Box