

Category 5E 350MHz UTP Riser (CMR) Cable

Cable Detail			
OUTER JACKET 24 AWG CONDUCTOR INSULATION RIP CORD			
Description			
24 AWG Cat5E CMR, High-Performance Data Cable			
Applicable Standards			
• ETL Listed Type CMR • C(ETL) listed CMG FT4 • ETL Verified to TIA-568-C.2 • 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)			
ETL LISTED us Intertek TIA ADVANCING GLOBAL COMMUNICATIONS TIA 568-C.2			
Physical Characteristics			
	Conductor Material	Solid Annealed Bare Copper	
	Number of Conductor Pairs	4	
	Size	24 AWG	
	Stranding	Solid	
	Insulation Material	Polyethylene	
	Overall Diameter	0.035 in. ± 0.0002 in	
	Average Thickness	0.0081 in	
	Jacket Material	Flame Retardant PVC	
	Average Wall Thickness	0.023 in.	
	Nominal Outer Diameter	0.200 in. ± 0.008 in.	
	Nominal Weight	20 lbs.	
	Shield Material	Unshielded	
	Ripcord	Yes	
Mechanical Characteristics			
	Temperature Rating	Installation	0°C to + 60°C
		Operating	-20°C to + 75°C
	Tensile Strength	Before	≥ 13.8 Mpa
	Elongation	Aging	≥ 100%
	Aging Condition		100°C x 240 hours
		After	≥ 85% of unaged
Aging		≥ 50% of unaged	
Insulation Colors			
	Pair 1	White / Blue	Blue
	Pair 2	White / Orange	Orange
	Pair 3	White / Green	Green
	Pair 4	White / Brown	Brown
Part Numbers		Jacket Color	Package
5E04URXX4		Black, Blue, Green, Grey, Orange, Pink, Purple, Red, White, Yellow	1000FT / Reel

Electrical Characteristics

Max. Conductor DC Resistance @ 20°C	9.65 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)		Return loss (dB)		NEXT (dB)		PS-NEXT (dB)	
	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.
0.772	1.8	1.5	23.0	33.0	72.0	81.1	70.0	78.7
1	2.0	1.8	23.0	38.6	70.3	79.4	68.3	76.9
4	4.1	3.6	23.0	39.8	61.2	69.9	59.3	67.4
8	5.8	5.1	24.5	38.2	56.8	61.9	54.8	59.4
10	6.5	5.8	25.0	38.0	55.3	62.4	53.5	59.9
16	8.2	7.4	25.0	37.4	52.3	57.8	50.3	55.2
20	9.3	8.2	25.0	36.8	50.8	56.4	48.8	53.8
25	10.4	9.3	24.3	35.2	49.3	56.3	47.3	53.6
31.25	11.7	10.5	23.6	33.3	47.9	53.8	45.9	51.1
62.5	17.0	14.9	21.5	32.2	43.4	49.8	41.4	47.4
100	22.0	19.2	20.1	31.3	40.3	47.5	38.3	45.0
155	28.1	24.2	18.8	29.8	37.4	45.1	35.4	42.6
200	32.4	27.3	18.0	28.5	35.7	43.3	33.7	40.2
250	38.9	30.9	17.5	27.3	34.8	41.4	32.5	39.0
300	41.0	34.1	16.8	25.6	33.1	40.2	31.1	37.7
350	44.9	37.8	16.3	23.2	32.1	39.0	30.1	36.5
Frequency (MHz)	ELFEXT (dB/100m)		PS-ELFEXT (dB)		ACR Typ (dB)		PS-ACR Typ (dB)	
	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.
0.772	66.0	73.3	63.0	72.7	70.2	79.2	68.2	77.0
1	63.8	71.3	60.8	70.6	68.2	77.6	66.3	75.0
4	51.7	59.4	48.7	58.7	57.2	66.3	55.2	63.5
8	45.7	53.2	42.7	51.1	51.0	59.8	49.0	56.9
10	43.8	50.5	40.8	49.7	48.8	56.6	47.0	53.7
16	39.7	47.0	36.7	45.1	43.0	53.0	42.1	47.4
20	37.7	45.0	34.7	43.6	41.5	50.5	39.5	45.0
25	35.8	43.3	32.8	42.0	38.9	47.0	36.9	43.7
31.25	33.9	41.3	30.9	40.5	36.5	43.3	34.2	40.0
62.5	27.8	35.8	24.8	34.5	26.4	35.0	24.4	31.2
100	23.8	31.3	20.8	30.3	18.3	26.2	16.3	24.2
155	19.9	27.5	16.9	26.9	10.0	20.9	7.3	15.9
200	17.7	24.7	14.7	24.5	5.0	16.0	2.0	10.0
250	17.1	22.2	14.0	22.5	0.0	10.6	-	4.0
300	16.7	20.5	13.5	20.7	-	6.1	-	-1.3
350	16.0	19.4	12.8	19.6	-	1.2	-	-6.4

* Values above 100MHz are information only.

Cable Marking

CATEGORY 5E 350MHZ 24AWG 4 PR UTP XXXXXX CMR FT4 C(ETL)US
ETL LISTED & VERIFIED TO TIA-568-C.2 ****FT