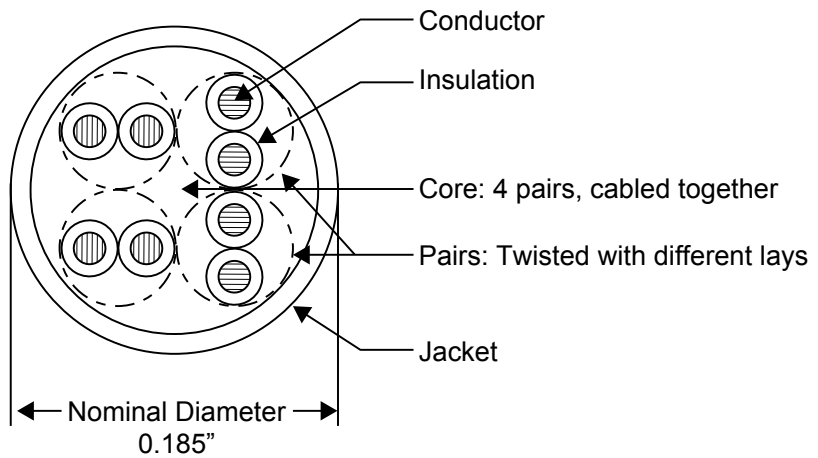


# 510 Series CMR Cat 5e UTP Cable Cut Sheet

## 219538-X



### Description

AMP NETCONNECT Enhanced Category 5 (Cat5e) cables meet ANSI/TIA-568-C.2 Enhanced Category 5 (Category 5e) and ISO/IEC 11801 Class D performance requirements. The AMP NETCONNECT Enhanced Category 5 System complies with all of the performance requirements for current and proposed applications such as Gigabit Ethernet (1000BASE-Tx), 10 and 100BASE-Tx, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog and digital video, and analog and digital voice (VoIP).

AMP NETCONNECT Category 5e cables are available in standard colors white, gray, blue and yellow. Packaging includes pull boxes and reels. Additional jacket colors are also available.

### Specification

Horizontal cabling shall be 24 AWG, 4-pair UTP, NEC/NFPA CMR rated and be independently verified for compliance. Cable jacketing shall be white, gray, blue or yellow and shall be lead-free. Cable shall be independently verified by ETL and shall meet all ANSI/TIA and ISO Enhanced Category 5/Class D requirements as well as meet the performance requirements listed in the table on page 2.

Cable performance shall be independently verified and characterized to 200MHz. Cable shall be supplied on reels, or in pull boxes. Cable shall be independently verified for flammability by UL. Flammability shall comply to NEC article 800 and CMR (ANSI/UL 1666). Horizontal cable shall be AMP NETCONNECT part number 219538-X.

### ORDERING INFORMATION

Product Description	Packaging	Part Numbers			
		White	Gray	Blue	Yellow
Category 5e UTP Cable, 200MHz, 4-Pair, Riser (CMR) Rated	RL	219538-1	219538-3	219538-5	219538-7
	PB	6-219538-2	6-219538-4	6-219538-6	6-219538-8

Packaging: RL = 1000ft Reel, PB = 1000ft Pull Box



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## PERFORMANCE DATA

Frequency (MHz)	Insertion Loss (Attenuation) dB/100m max	NEXT (dB) min	PSNEXT (dB) min	ACRF (dB) min	PSACRF (dB) min	RL (dB) min
1	2.0	65.3	62.3	63.8	60.8	20.0
4	4.1	56.3	53.3	51.8	48.8	23.0
8	5.8	51.8	48.8	45.7	42.7	24.5
10	6.5	50.3	47.3	43.8	40.8	25.0
16	8.2	47.2	44.2	39.7	36.7	25.0
20	9.3	45.8	42.8	37.8	34.8	25.0
25	10.4	44.3	41.3	35.8	32.8	24.3
31.25	11.7	42.9	39.9	33.9	30.9	23.6
62.5	17.0	38.4	35.4	27.9	24.9	21.5
100	22.0	35.3	32.3	23.8	20.8	20.1

## SPECIFICATIONS

<b>Mutual Capacitance:</b>	5.6 nF/100 m maximum
<b>Characteristic Impedance:</b>	100 $\Omega$ $\pm$ 15%, 1 - 200 MHz
<b>Conductor DC Resistance:</b>	28.6 $\Omega$ /1000 ft (9.38 $\Omega$ /100 m) maximum
<b>Voltage:</b>	300 VDC
<b>Delay Skew:</b>	45ns/100m maximum
<b>Propagation Delay:</b>	538ns/100m maximum @ 100MHz
<b>Nominal Velocity of Propagation:</b>	69%
<b>Operating Temperature:</b>	-20°C - 60°C (-4°F - 140°F)
<b>Storage Temperature:</b>	-20°C - 80°C (-4°F - 176°F)
<b>Installation Temperature:</b>	5°C - 50°C (41°F - 122°F)
<b>Bend Radius:</b>	4 $\times$ cable diameter
<b>Packaging:</b> 1000ft ( $\pm$ 2%) Reel: 1000ft ( $\pm$ 2%) Pull Box:	20 lbs/kft 20 lbs/kft
<b>Materials:</b> Conductors: Insulation: Jacket:	24 AWG, Solid Copper, ( $\emptyset$ .0201 nominal) 0.035 nominal, Polyethylene 0.185 nominal, PVC
<b>Compliances:</b>	UL Subject 444 (UL)-C(UL) Type CMR ICEA S-90-661 ETL Verified TIA-568-C.2 Category 5e Horizontal Cable Requirements ISO/IEC 11801 Category 5e Horizontal Cable Requirements 2002/95/EC RoHS



## DATA SHEET



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