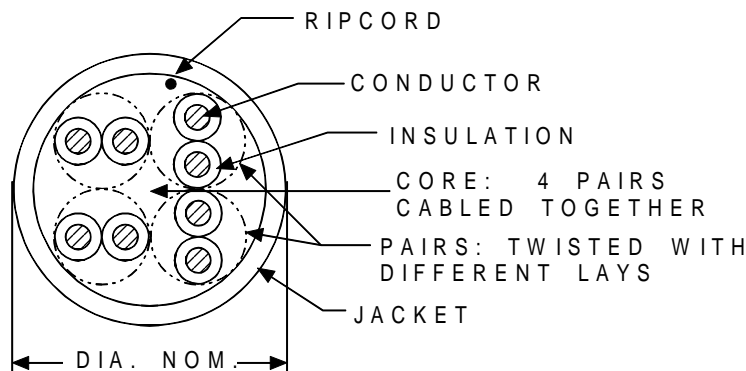


# Category 5e Cable

219513-X, 219538-X



### Description

AMP NETCONNECT Category 5e cables exceed TIA/Eia-568-B requirements for Category 5e performance. They comply with all of the performance requirements for current and proposed applications such as Gigabit Ethernet, 100BASE-Tx, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog (broadband, baseband) and digital video and voice. The cable is available in white, gray, blue and yellow, and packaged as wooden reels, reel-in-box and pull box.

### Specification (Text in brackets [ ] requires a choice.)

Horizontal cabling shall be 24 AWG, 4-pair UTP, UL/NEC [CMP or CMR] rated, with a [white, gray, blue or yellow] [plenum-rated] PVC jacket. [Individual conductors shall be 100% FEP insulated (if plenum)]. Cable jacketing shall be lead-free. Cable shall meet the performance requirements listed in the following table [include Performance Characteristics table from back page] in addition to all other standard Category 5e performance requirements. Cable shall be supplied [on wooden reels, in pull box or in reel-in-box]. Cable shall be UL listed under file number E138034. Horizontal cable shall be AMP NETCONNECT part number [219513-X or 219538-X].

Description	UL/NEC Ratings	Nominal Diameter		Vp (nom%)	Weight	Package	Part Numbers			
		Dielectric	Outside				White	Gray	Blue	Yellow
4-Pair Non-Plenum	CMR	0.037 in	0.200 in	70	24 lbs/mft	WR	219538-1	219538-3	219538-5	219538-7
						RB	219538-2	219538-4	219538-6	219538-8
						PB	6-219538-2	6-219538-4	6-219538-6	6-219538-8
4-Pair Plenum	CMP	0.035 in	0.190 in	74	22 lbs/mft	WR	219513-1	219513-3	219513-5	219513-7
						RB	219513-2	219513-4	219513-6	219513-8
						PB	6-219513-2	6-219513-4	6-219513-6	6-219513-8

Package: WR= Wooden Reel, RB = Reel Box, PB = Pull Box (1000 ft. ±2%)

# Category 5e Cable

219513-X, 219538-X

## Performance Characteristics (meet or exceed TIA/EIA-568-B Category 5e)

Frequency, MHz	Attenuation, dB/100m Max.	NEXT, dB Min./Typical	PSNEXT, dB Min./Typical	ELFEXT, dB Min./Typical	PSELFEXT, dB Min./Typical	Return Loss, dB Min./Typical	ACR, dB Min./Typical	PS ACR, dB Min./Typical
.772	1.8	69/76	66/70	66/71	63/68	-/-	67.2/74.2	64.1/68.4
1	2.0	67/74	64/68	64/69	61/66	20.0/26.0	65.3/72.3	62.2/66.2
4	4.1	58/65	55/59	52/57	49/54	23.0/29.0	54.2/61.2	51.1/55.3
8	5.8	54/61	51/55	46/51	43/48	24.5/30.5	48.0/55.0	44.9/49.8
10	6.5	52/59	49/53	44/49	41/46	25.0/31.0	45.8/52.8	42.7/47.2
16	8.2	49/56	46/50	40/45	37/42	25.0/31.0	41.0/48.0	37.8/42.6
20	9.3	48/55	45/49	38/43	35/40	25.0/31.0	38.5/45.5	35.3/40.6
25	10.4	46/53	43/47	36/41	33/38	24.3/30.3	35.9/42.9	32.7/37.6
31.25	11.7	45/52	42/46	34/39	31/36	23.6/29.6	33.2/40.2	30.0/35.5
62.5	17.0	40/47	37/41	28/33	25/30	21.5/27.5	23.4/30.4	20.1/25.7
100	22.0	37/44	34/38	24/29	20/26	20.1/26.1	15.3/22.3	11.9/18.2
155	28.1	34/41	31/35	20/25	17/22	18.8/24.8	6.4/13.4	2.0/9.7
200	32.4	33/40	30/34	18/23	15/20	18.0/24.0	0.4/7.4	-1.1/4.8

**Impedance:** 100 ohms  $\pm$  15, 1 MHz to 200 MHz

**Propagation delay:** 538 ns/100 m max. @ 100 MHz

**Skew:** 25 ns max

**Mutual capacitance:** 5.6 nF max/100 m

**Conductor resistance:** 9.38 ohms max/100 m

**Bend radius:** (4 X cable diameter)  $\approx$  1"

### Materials:

Conductors - 24 AWG solid bare copper

Insulation -

219538 - Polyethylene, .036" dia. nom.

219513 - FEP, .032" dia. nom.

Jacket -

219538 - FR PVC, .200" dia. nom.

219513 - Polymer alloy, .195" dia. nom.

**Operating temperature:** -20°C – 60°C

**Storage temperature:** -20°C – 80°C

**Approvals:** UL listed file no. E138034  
ETL verified TIA/EIA-568-A-5 Category 5e

Specifications subject to change without notice.

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In the U.S. 1-800-553-0938

Canada 905-475-6222

Mexico 525-729-0400

South and Central Americas 54-11-4733-2200

[www.amp.com/networking](http://www.amp.com/networking)

e-mail: [networking.help@tycoelectronics.com](mailto:networking.help@tycoelectronics.com)

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