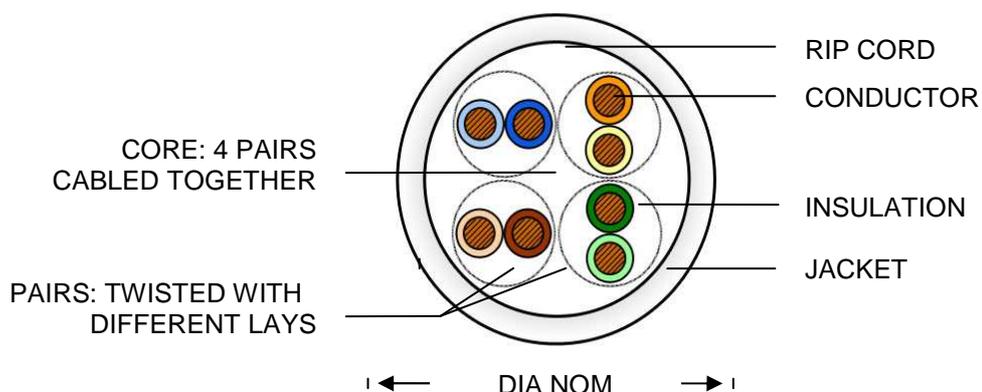


Category 5e U/UTP Cable, 200 MHz



219590-X



Description

AMP NETCONNECT Enhanced Category 5 (Cat5e) cables exceed TIA/EIA-568-B.2, TIA/EIA 568-C and ISO/IEC 11801 Class D, IEC61156-5, IEC60332-1, EN50288 and EN50173-1 performance requirements, providing extra headroom for a more robust cabling system. They comply with all of the performance requirements for current and proposed applications such as 1000Base-T, Gigabit Ethernet, 10/100BASE-Tx, token ring, 155 Mbps ATM, 100 Mbps, 1.2Gbps, TP-PMD, ISDN, analog (Broadband, Baseband) and digital video and analog and digital voice (VoIP). 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 CM rated. Cable jacketing shall be a [white, gray, blue or yellow] PVC jacket and 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 and shall be independently verified by ETL. Cable shall be supplied [on wooden reels, in pull box or in reel-in-box]. Cable shall be UL listed under file number E138034. Flammability shall comply to NEC article 800. Horizontal (Solid) cable shall be AMP NETCONNECT part number 219590-X.

Part Numbers

Description	UL/NEC Ratings	Nominal Diameter		Vp (nom%)	Weight	Package	Part Numbers				
		Dielectric	Outside				White	Gray	Blue	Yellow	
4-Pair Non-Plenum	CM	0.032 in	0.20 in	70	24 lbs/mft	WR	219590-1	219590-3	219590-5	219590-7	
		± 0.0036	± 0.026			± 5 lbs	RB	219590-2	219590-4	219590-6	219590-8
							PB	6-219590-2	6-219590-4	6-219590-6	6-219590-8

Package: WR = Wooden Reel, RB = Reel Box, PB = Pull Box (305 meter. ± 2%)

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Performance Characteristics (meet or exceed TIA/EIA-568-C.2 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
0.772	1.8	69/76	66/70	66/71	63/68	-/-	67.2/74.2	64.1/68.4
1	2	67/74	64/68	64/69	61/66	20.0/26.0	65.3/72.0	62.2/66.2
4	4.1	58/65	55/59	52/57	49/54	23.1/29.0	54.2/60.9	51.1/55.3
8	5.8	54/61	51/55	46/51	43/48	24.5/30.5	48.0/55.2	44.9/49.8
10	6.5	52/59	49/53	44/49	41/46	25.0/31.0	45.8/52.5	42.7/47.2
16	8.2	49/56	46/50	40/45	37/42	25.0/31.0	41.0/47.8	37.8/42.6
20	9.3	48/55	45/49	38/43	35/40	25.0/31.0	38.5/45.7	35.3/40.6
25	10.4	46/53	43/47	36/41	33/38	24.3/30.3	35.9/42.6	32.7/37.6
31.25	11.7	45/52	42/46	34/39	31/36	23.6/29.6	33.2/40.3	30.0/35.5
62.5	17	40/47	37/41	28/33	25/30	21.5/27.5	23.4/30.0	20.1/25.7
100	22	37/44	34/38	24/29	21/26	20.1/26.1	15.3/22.0	11.9/18.2
155	28.1	34/41	31/35	20/25	17/22	18.8/24.8	6.4/12.9	2.0/9.7
200	32.4	33/40	30/34	18/23	15/20	18.0/24.0	0.4/7.6	1.1/4.8

Technical Details

Materials	
Conductors –	24 AWG solid bare copper
Insulation –	Polyethylene, 0.032 ± 0.0036 in nom dia
Jacket –	FR PVC, 0.20 ± 0.026 in nom dia
Electrical Characteristics	
Impedance –	100Ω ± 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 –	9.38Ω max/100 m
Voltage –	300 Volts AC or DC
Mechanical Characteristics	
Bend radius –	The minimum bending radius is 8x outside diameter during installation and 4x the outside diameter after installation ≈ 1"
Operating temperature –	-20°C to 60°C
Storage temperature –	-20°C to 80°C
Installation temperature –	0°C to 50°C
Approvals	
UL File Number	E138034
ETL Certificate Number	3041441-003
RoHS Compliant	

Specifications subject to change without notice. Revised 03/11

<http://www.ampnetconnect.com/thailand>

