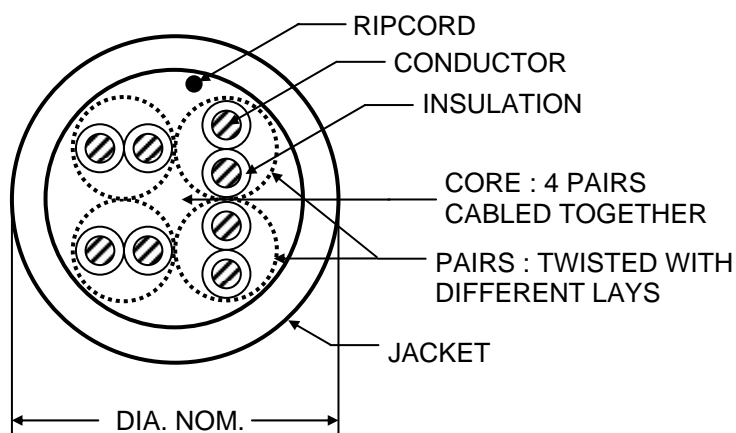


Category 5e UTP Cable



Y-1427260-X



Description

AMP NETCONNECT Enhanced Category 5e (Cat5e) cables exceed TIA/EIA-568-B.2 Enhanced Category 5 (Category 5e) 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 Gigabit Ethernet, 100BASE-Tx, token ring, 155 Mbps ATM, 100 Mbps 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 reel or box.

Specification (text in brackets [] requires a choice)

Horizontal cabling shall be 24 AWG, 4-pair UTP. 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]. Cable shall be supplied [on wooden reels, in pull box or in reel-in-box]. Cable shall be UL 444. Flammability shall comply to NEC article 800. Horizontal (Solid) cable shall be AMP NETCONNECT part number Y-1427260-X.

Part Numbers

Description	Nominal Diameter		Vp (nom%)	Weight KG/KM	Package	Part Numbers			
	Dielectric	Outside				White	Gray	Blue	Yellow
4-Pair Non-Plenum	0.034 in ± 0.0036	0.189 in ± 0.026	70	28 ± 5 lbs	RB	2-1427260-2	2-1427260-4	2-1427260-6	2-1427260-8

Category 5e UTP Cable



Y-1427260-X

Performance Characteristics (meet or exceed TIA/EIA-568-B.2 Category 5e)

Frequency, MHz	Attenuation, dB/100m Max.	NEXT, dB Min.	PSNEXT, dB Min.	ELFEXT, dB Min.	PSELFEXT, dB Min.	Return Loss, dB Min.	ACR, dB Min.
0.772	1.8	67.0	64.0	66.0	63.0	19.4	65.2
1	2	65.3	62.3	63.8	60.8	20.0	63.3
4	4.1	56.3	53.3	51.7	48.7	23.0	52.2
8	5.8	51.8	48.8	45.7	42.7	25.0	46.0
10	6.5	50.3	47.3	43.8	40.8	25.0	43.8
16	8.2	47.3	44.3	39.7	36.7	25.0	39.0
20	9.3	45.8	42.8	37.7	34.7	25.0	36.5
25	10.4	44.3	41.3	35.8	32.8	24.3	33.9
31.25	11.7	42.9	39.9	33.9	30.9	23.6	31.2
62.5	17	38.4	35.4	27.8	24.8	21.5	21.4
100	22	35.3	32.3	23.8	20.8	20.1	13.3

Technical Details

Materials

Conductors – 24 AWG solid bare copper

Insulation – Polyethylene, 0.034 ± 0.0036 in nom dia

Jacket – PVC, 0.189 ± 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

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

Approvals

RoHS Compliant

Specifications subject to change without notice.

Revised 02/09

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

