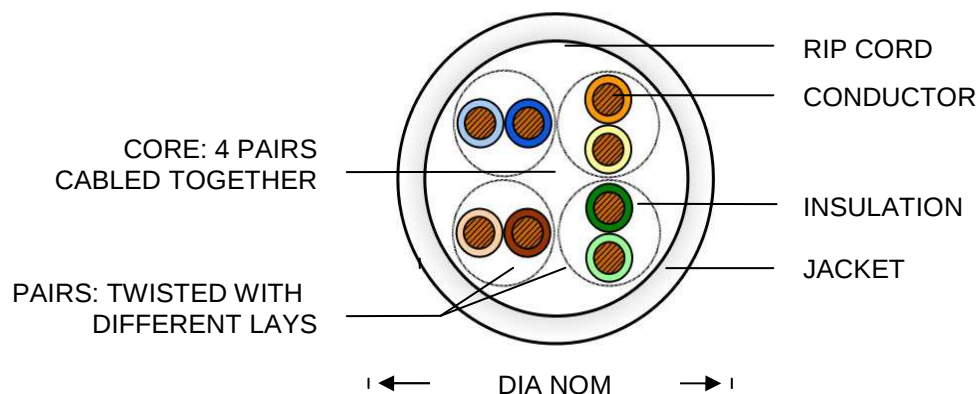


Category 5e U/UTP

Y-1427260-X, Y-1427297-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 or reelex 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 or CMX 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 with NEC article 800. Horizontal (Solid) cable shall be AMP NETCONNECT part number Y-1427260-X, Y-1427297-X

Part Numbers

Description	Nominal Diameter		Vp (nom%)	Weight KG/KM	Package	Part Numbers			
	Dielectric	Jacket				White	Gray	Blue	Yellow
CAT 5e, U/UTP, 4-Pair, PVC	0.88 mm ± 0.1	4.8 mm	70	28	200M, RB	2-1427260-2	2-1427260-4	2-1427260-6	2-1427260-8
		± 0.2		± 5 lbs	400M, RB	4-1427260-2	4-1427260-4	4-1427260-6	4-1427260-8
CAT 5e, U/UTP, 4-Pair, CMX		5.3 mm		27	100M, RB	-	1427297-1	1427297-2	-

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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.	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, 0.19mm thickness, 0.88mm diameter

Jacket – PVC 0.5mm thickness, 4.8mm nom diameter, CMX 0.5mm thickness, 5.3mm nom diameter

Electrical Characteristics

Impedance – $100\Omega \pm 15\%$, 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 – 9.38Ω 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 $\approx 1"$

Operating temperature – -20°C to 60°C

Storage temperature – -20°C to 80°C

Installation temperature – 0°C to 50°C

Approvals

RoHS Compliant

Specifications subject to change without notice.

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

