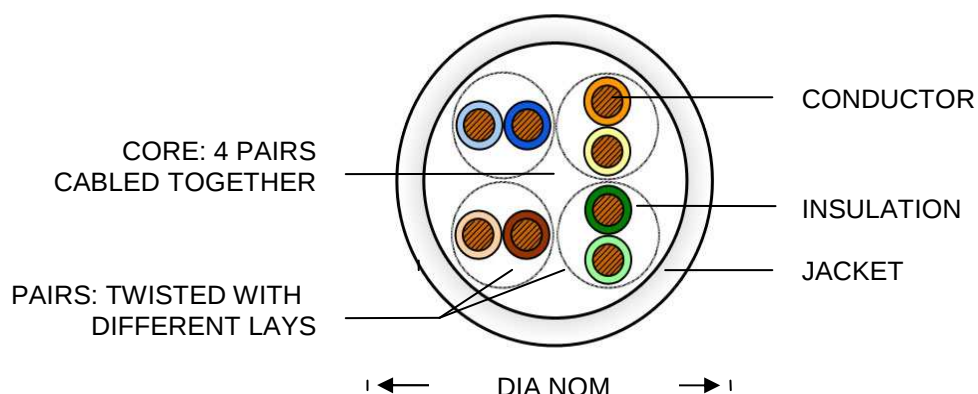


Category 5e U/UTP Cable, 350MHz



Y-57825-X, Y-57826-X



Description

AMP NETCONNECT Enhanced Category 5 (Cat5e) U/UTP cables exceed TIA/EIA-568-B.2, ITA/EIA 568-C and ISO/IEC 11801 Class D, IEC61156-5, EN50288 and EN50173 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 1000Base-T IEEE802.3ab, 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) and VoIP Camera application. 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 U/UTP, UL/NEC/NFPA [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. Flammability shall comply with NEC article 800 and NFPA 70; [CMP (NFPA 262, UL 910) or CMR (ANSI/UL 1666, IEC 332-1)]. Horizontal cable shall be AMP NETCONNECT part number [57825-X or 57826-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	CMR	0.032 in ± 0.0036	0.205 in ± 0.026	70	24 lbs/1000ft ± 5 lbs	WR	57826-1	57826-3	57826-5	57826-7
						RB	57826-2	57826-4	57826-6	57826-8
						PB	6-57826-2	6-57826-4	6-57826-6	6-57826-8
4-Pair Plenum	CMP	0.032 in ± 0.0036	0.195 in ± 0.026	74	22 lbs/1000ft ± 5 lbs	WR	57825-1	57825-3	57825-5	57825-7
						RB	57825-2	57825-4	57825-6	57825-8
						PB	6-57825-2	6-57825-4	6-57825-6	6-57825-8

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

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Performance Characteristics (meet or exceed TIA/EIA-568-C.2 Category 5e and ISO/IEC 11801)

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	72/81	69/77	- / -	- / -	-/-	70.2/79.2	67.0/73.4
1	2	70/79	67/75	64/71	61/68	20.0/28.0	68.3/77.3	65.1/71.2
4	4.1	61/70	58/66	52/59	49/56	23.0/31.0	57.2/66.2	53.9/60.3
8	5.8	57/66	54/62	46/53	43/50	24.5/32.5	51.0/60.0	47.7/54.8
10	6.5	55/64	52/60	44/51	41/48	25.0/33.0	48.8/57.8	45.5/52.2
16	8.2	52/61	49/57	40/47	37/44	25.0/33.0	44.0/53.0	40.6/47.6
20	9.3	51/60	48/56	38/45	35/42	25.0/33.0	41.5/50.5	38.1/45.6
25	10.4	49/58	46/54	36/43	33/40	24.3/32.3	38.9/47.9	35.5/42.6
31.25	11.7	48/57	45/53	34/41	31/38	23.6/31.6	36.2/45.2	32.7/40.5
62.5	17	43/52	40/48	28/35	25/32	21.5/29.5	26.4/35.4	22.7/30.7
100	22	40/49	37/45	24/31	22/28	20.1/28.1	18.3/27.3	14.2/23.2
155	28.1	37/46	34/42	20/27	17/24	18.8/26.8	9.4/18.4	5.9/14.7
200	32.4	36/45	33/41	18/25	15/22	18.0/26.0	3.4/12.4	2.5/9.8
225	34.7	35/44	32/40	17/24	14/21	17.6/25.6	0.3/9.3	0.5/8.7
250	36.9	34/43	31/39	16/23	13/20	17.3/25.3	-/6.5	-/4.7
300	41	33/42	30/38	14/21	11/18	16.8/24.8	-/1.2	-
350	44	32/41	29/37	13/20	10/17	16.3/24.3	-	-

Technical Details

Materials	
Conductors –	24 AWG solid bare copper
Insulation –	CMR: Polyethylene, 0.94mm +/- 0.1 mm nom dia, 0.22 mm thickness CMP: FEP, 0.81mm +/- 0.1 mm nom dia, 0.15 mm thickness
Jacket –	CMR: FRPVC, 5.08mm +/- 0.66mm nom CMP: FEP, 4.95mm +/- 0.66mm nom
Electrical Characteristics	
Impedance –	100Ω ± 15%, 1 MHz to 350 MHz
Resistance unbalance –	2% max @ 20°C
Propagation Delay –	538 ns/100 m max. @ 100 MHz
Delay Skew –	25 ns/100M max
Mutual capacitance –	5.6 nF max/100 m @ 1 kHz
Capacitance unbalance –	160 pF max/100 m @ 1 kHz
Conductor resistance –	9.38Ω max/100 m
Insulation resistance –	5000 MΩ/Km @ 20°C
Test voltage (DC, 1min) –	1kV / 1 min
Tensile Strength –	1400 psi
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 listed file no	E138034
CMR	UL 1666, IEC 332-1, (60332-1)
CMP	NFPA 262, UL 910
ETL	J20049516-001

Specifications subject to change without notice. Revised 03/11

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