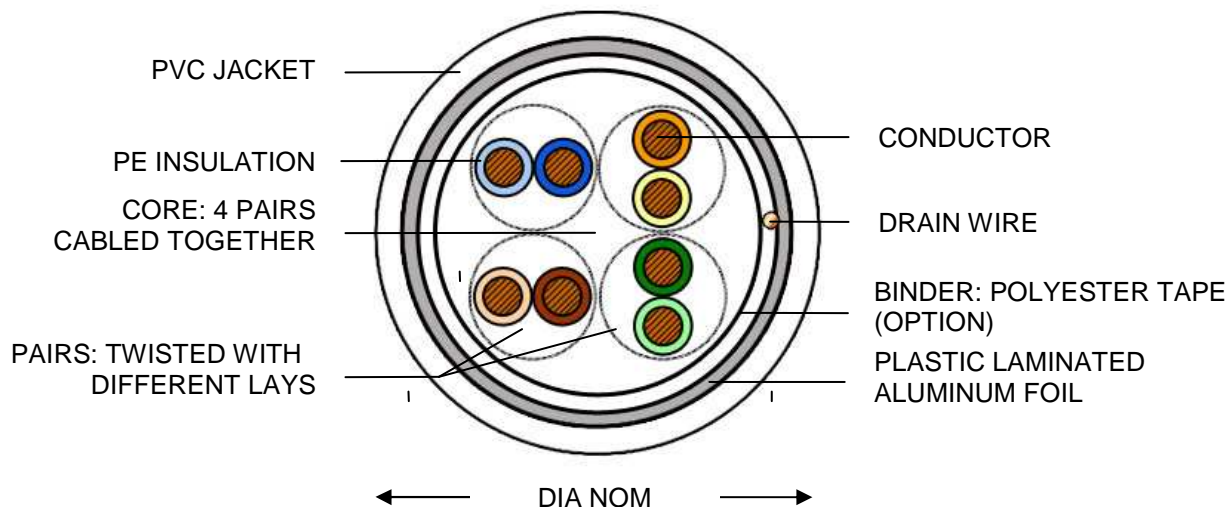


Category 5e F/UTP Cable, 350 MHz



219413-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 Gigabit Ethernet IEEE 802.3ab, 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 or pull box.

Specification (text in brackets [] requires a choice)

Horizontal cabling shall be 24 AWG, 4-pair F/UTP, Cable jacketing shall be a [white or gray] 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. Cable shall be supplied [on wooden reels, in pull box or in reel-in-box]. Cable shall be AMP NETCONNECT part number 219413-X.

Part Numbers

Description	UL/NEC Ratings	Nominal Diameter		V _p (nom%)	Weight	Package	Part Numbers	
		Dielectric	Outside				White	Gray
4-Pair Non-Plenum	PVC	0.044 in	0.244 in	72	30 lbs/mft	WR	219413-1	219413-4
						RB	219413-2	219413-5

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
1	2.1	70/79	67/75	64/71	61/68	20/28	68.2/77.3	64.1/68.4
4	4.0	61/70	58/66	52/59	49/56	23/31	57.3/66.2	62.2/66.2
10	6.3	55/64	52/60	44/51	41/48	25/33	49.0/57.8	51.1/55.3
16	8.0	52/61	49/57	40/47	37/44	25/33	44.2/53	44.9/49.8
20	9.3	51/60	48/56	38/45	35/42	25/33	41.8/50.5	42.7/47.2
31.25	11.4	48/57	45/53	34/41	31/38	24/31.6	36.5/45.2	37.8/42.6
62.5	16.5	43/52	40/48	28/35	25/32	22/29.5	26.8/35.4	35.3/40.6
100	21.3	40/49	37/45	24/31	21/28	20/28.1	19.0/27.3	32.7/37.6
125	24.2	39/47	36/43	22/28	19/24	19/27.2	14.7/22.8	30.0/35.5
155	27.2	37/46	34/42	20/27	17/24	19/26.8	10.2/18.8	20.1/25.7
200	31.5	36/45	33/41	18/25	15/22	18/26.0	4.3/13.5	11.9/18.2
225	33.7	35/44	32/40	17/24	14/21	18/25.6	1.3/10.3	2.0/9.7
250	35.8	34/43	31/39	16/23	13/20	17/25.3	-7.2	1.1/4.8
300	39.8	33/42	30/38	14/21	11/18	17/24.8	-2.2	-/-
350	43.5	32/41	29/37	13/20	10/17	16/24.3	-/-	-/-

Technical Details

Materials

Conductors –	24 AWG solid bare copper 0.485 ≤ Ø 0.546 mm
Insulation –	Polyethylene, 0.89 ≤ Ø 1.12 mm nom dia
Drain Wire –	Copper Tinned Plating, 0.4 ≤ Ø 0.55 mm nom dia
Binder –	Polyester Tape (Option)
Shield –	Foil Material, Plastic Laminated Aluminum Foil
Jacket –	PVC, 6.1 ± 0.3 mm nom dia

Electrical Characteristics

Impedance –	100Ω ± 15%, 1 MHz to 350 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

Approvals

RoHS Compliant

Specifications subject to change without notice.

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

