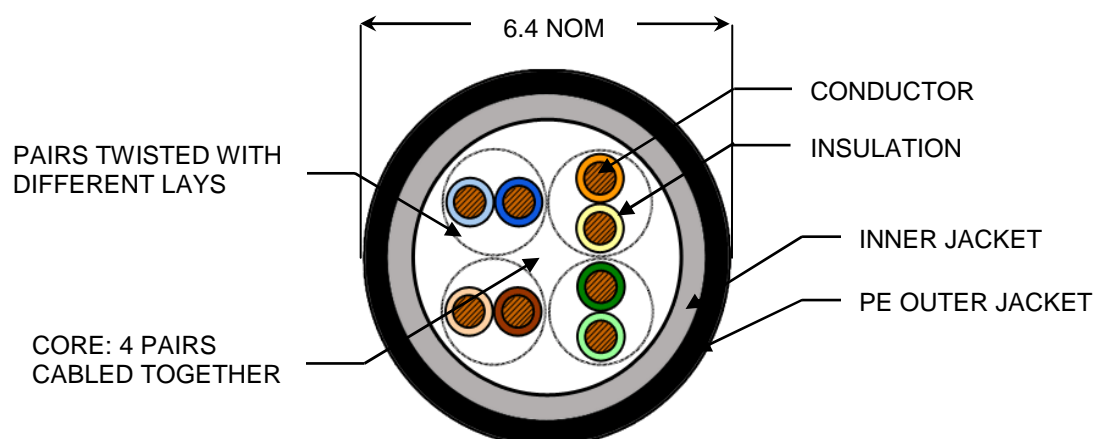


Category 5e U/UTP Outdoor Double Jacket Cable



1427321-1



Description

AMP NETCONNECT Enhanced Category 5 (Cat5e) Outdoor cables UV Stabilized PE Double Jacket, suitable for horizontal, vertical, aerial and under ground conduit and outdoor applications, 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 TP-PMD, ISDN, analog (Broadband, Baseband) and digital video and analog and digital voice (VoIP) and VoIP Camera, Outdoor CCTV Camera. The cable is available in black color, and packaged as reel box.

Specification (text in brackets [] requires a choice)

Horizontal cabling shall be 24 AWG, 4-pair UTP. Cable outer jacketing shall be a [Black], Polyethylene (LDPE) for UV/harsh outdoor environment protection. Inner Jacket is FRPVC, 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 comply to NEC article 800. Horizontal (Solid) cable shall be AMP NETCONNECT part number 1427321-1.

Part Numbers

Description	Nominal Diameter		Vp (nom%)	Weight KG/KM	Package	Part Numbers
	Dielectric	Outside				Black
Cat 5E, 4-Pair Outdoor Double Jacket Cable UV Stabilized, PE	0.91mm	6.4mm +/- 0.15 mm	66	27.15 ± 5 lbs	Reel in Box	1427321-1

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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, 0.91mm nom dia, 0.199 mm thickness
Inner Jacket –	FRPVC, 5.3mm nom dia
Outer Jacket –	PE, Polyethylene, 6.4mm nom dia, 0.50 +/- 0.15 mm thickness nom

Electrical Characteristics

Impedance –	100Ω ± 15%, 1 MHz to 100 MHz
Resistance unbalance –	2% max @ 20°C
Propagation Delay –	538 ns/100 m max. @ 100 MHz
Delay Skew –	45 ns max
Mutual capacitance –	5.1 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 –	>9MPa, (9000KN/Square Meter)
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 –	-40°C to 75°C
Storage temperature –	-20°C to 60°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>

