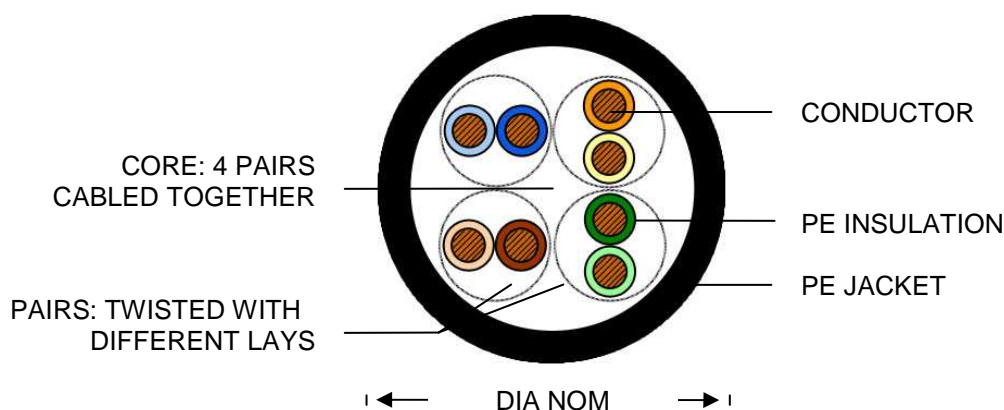


Category 5e U/UTP Outdoor Cable



1427318-1



Description

AMP NETCONNECT Enhanced Category 5 (Cat5e) Outdoor cables UV Stabilized PE Jacket (Double PE, Jacket and Insulation), suitable for horizontal, vertical, aerial and under ground conduit applications, exceed TIA/EIA-568-B.2, TIA/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. 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 jacketing shall be a [Black] Polyethylene (PE) jacket for UV/harsh outdoor environment protection 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 1427318-1.

Part Numbers

Description	Nominal Diameter		Vp (nom%)	Weight KG/KM	Package	Part Numbers
	Dielectric	Outside				Black
Cat 5E, 4-Pair Outdoor Cable UV Stabilized, PE	0.91mm	5.2mm +/- 0.15 mm	67	26.15 ± 5 lbs	Reel in Box	1427318-1

Category 5e U/UTP Outdoor Cable



1427318-1

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
Jacket –	PE, Polyethylene, 5.2mm 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. Revised 03/11

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

