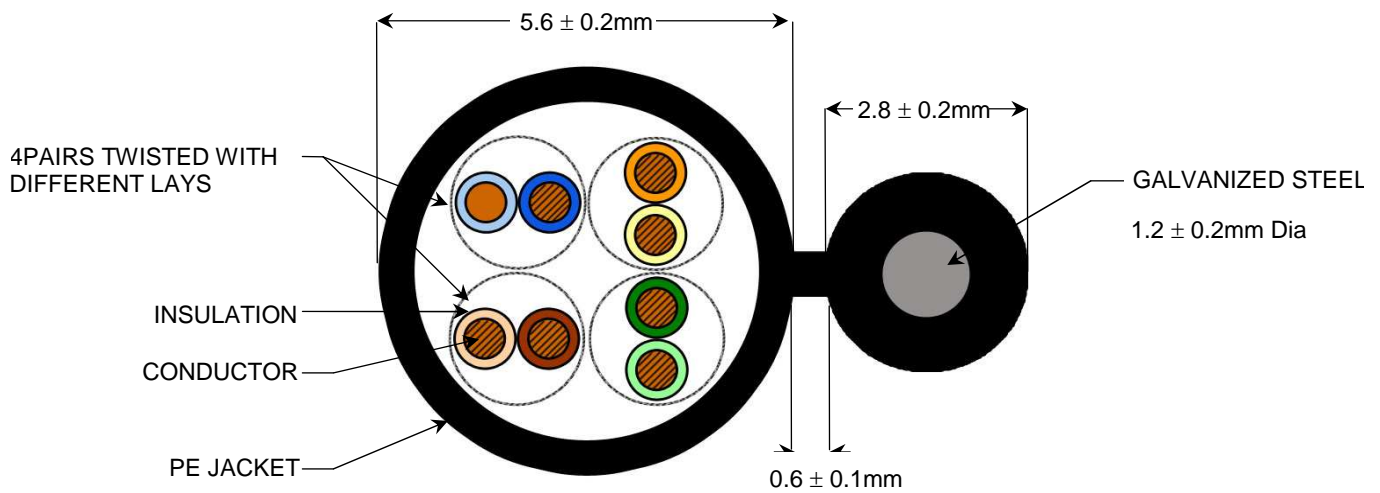


Category 5e U/UTP Outdoor with messenger wire



1427320-1



Description

AMP NETCONNECT Enhanced Category 5 (Cat5e) Outdoor cables UV Stabilized PE Jacket (PE Jacket and Insulation) with messenger wire, suitable for horizontal, vertical, aerial self support 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 (UV-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 1427320-1.

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, With Messenger wire	0.93mm +/- 0.05mm	5.6X2.8mm +/- 0.2 mm	66	35 ± 5 lbs	RB	1427320-1

Category 5e U/UTP Outdoor with messenger wire



1427320-1

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	20.2	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	24.5	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 –	HDPE, 0.93mm +/- 0.05 mm nom dia
Jacket –	UV-PE, Polyethylene, 5.6X2.8 +/- 0.2 mm nom dia, Over all Dia 5.6X9 mm

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 –	5.6 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 –	2400 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 –	-40°C to 75°C
Installation temperature –	-20°C to 60°C
Storage temperature –	0°C to 50°C

Approvals

RoHS Compliant

Specifications subject to change without notice. Revised 03/11

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

