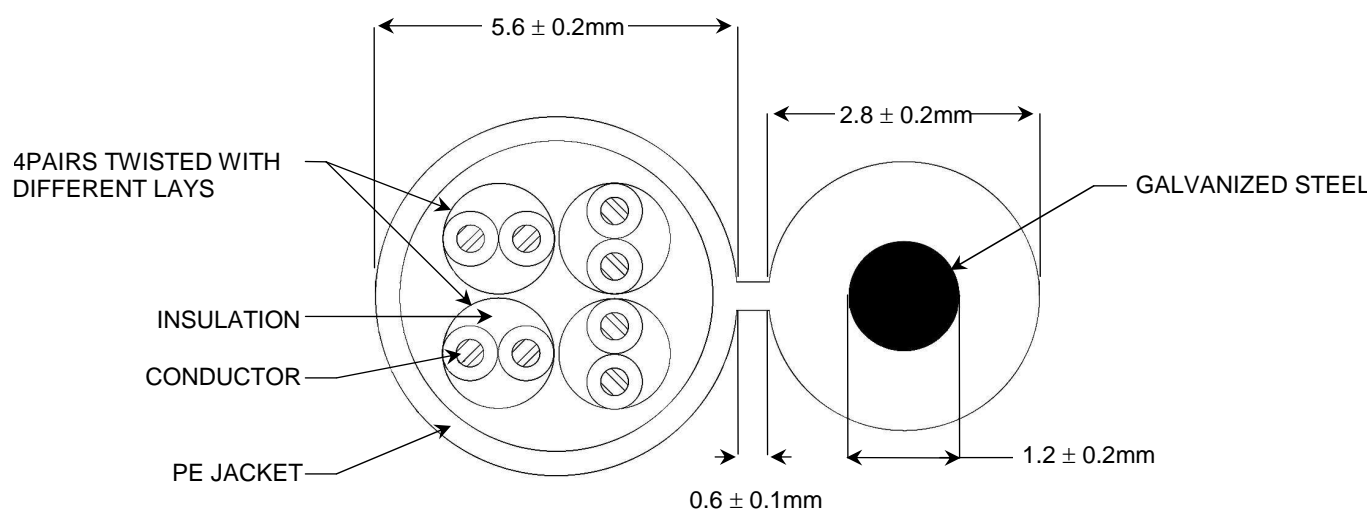


# Category 5e UTP Outdoor Cable with messenger wire



1427320-1



## Description

AMP NETCONNECT Enhanced Category 5 (Cat5e) Outdoor cables UV Stabilized PE Jacket (Double PE, Jacket and Insulation) with messenger wire, suitable for horizontal, vertical, aerial self support applications, exceed TIA/EIA-568-B.2 Enhanced Category 5 (Category 5e) 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

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## Performance Characteristics (meet or exceed TIA/EIA-568-B.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

### 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

### Mechanical Characteristics

Bend radius –	The minimum bending radius is 8x outside diameter during installation and 4x the outside diameter after installation ≈ 1"
Operating/Installation temperature –	-20°C to 60°C
Storage temperature –	0°C to 50°C

### Approvals

RoHS Compliant

Specifications subject to change without notice.

Revised 10/09

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

