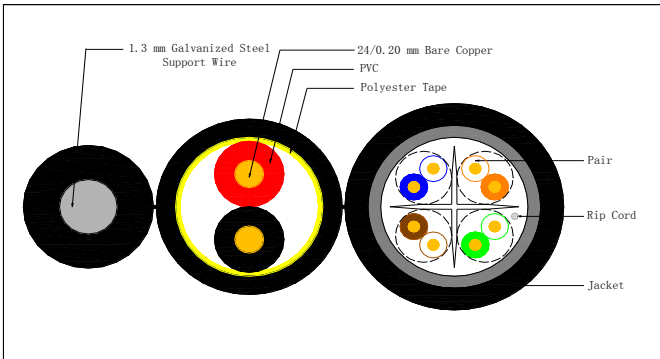


# 4 Pairs Cat.6 UTP Outdoor Hybrid LAN CABLE

No.4161A

## Cross Section

## Electrical Characteristics (20°C)



Reference Standard: TIA/EIA-568-C.2 & ISO/IEC 11801

Test Item (20°C)	Units	Spec
1.Max.Conductor DC Resistance	Ω/km	93.8
2.Max.Unbalance of Pair DC Resistance	%	2.5
3.Dielectric Strength between Pairs	kV/min	DC1.0
4.Min.Insulation Resistance	MΩ·km	5000
5.Max.Pair Mutual Capacitance	nF/100m	5.6
6.Max.Pair Capacitance Unbalance	pF/100m	330
7.Impedance(1 to 250MHz)	Ω	100±15

## Cable Description

### LAN CABLE

#### 1) Conductor:

Material	BC
Stranding	Solid
Wire Gage	23AWG
Dia.(+/-0.005mm)	0.555

#### 2) Insulation:

Material	HDPE
Dia.(+/-0.05mm)	0.95
Color Code	White/Blue & Blue White/Orange & Orange White/Green & Green White/Brown & Brown

#### 3) Paired:

Direction	Z
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#### 4) Cabling:

Order of the Pair	See the Cross Section
Direction	Z

#### 5) Outer Sheath:

Material	LDPE
Rip Cord	200Dx3
Thickness(+/-0.04mm)	0.54
Dia.(+/-0.3mm)	6.2

### AUDIO CABLE

#### 1) Conductor:

Material	BC
Stranding	Stranded
Dia.(+/-0.005mm)	0.2mm*24(0.75 sq.mm <sup>2</sup> )

#### 2) Insulation:

Material	PVC
Dia.(+/-0.05mm)	2.40
Color Code	RED& BLACK

#### 3) Jacket:

Material	LDPE
Dia.(+/-0.3mm)	7.60
Thickness(+/-0.05mm)	0.7

#### Messenger :

Material	LDPE
Steel wire	1.30mm
Thickness(+/-0.05mm)	0.75
Dia.(+/-0.2mm)	2.8

Frequency (MHz)	Min.RL (dB)	Max.IL (dB/100m)	Min.NEXT (dB)	Min.PSNEXT (dB)
1	20.0	2.0	74.3	72.3
4	23.0	3.8	65.3	63.3
8	24.5	5.3	60.8	58.8
10	25.0	6.0	59.3	57.3
16	25.0	7.6	56.2	54.2
20	25.0	8.5	54.8	52.8
25	24.3	9.5	53.3	51.3
31.25	23.6	10.7	51.9	49.9
62.5	21.5	15.4	47.4	45.4
100	20.1	19.8	44.3	42.3
200	18.0	29.0	39.8	37.8
250	17.3	32.8	38.3	36.3

Frequency (MHz)	Min.ELFEXT (dB)	Min.PSELFEXT (dB)	Max.Delay (ns/100m)	Max.Delay skew(ns/100m)
1	67.8	64.8	570	45
4	55.8	52.8	552	45
8	49.7	46.7	547	45
10	47.8	44.8	545	45
16	43.7	40.7	543	45
20	41.8	38.8	542	45
25	39.8	36.8	541	45
31.25	37.9	34.9	540	45
62.5	31.9	28.9	539	45
100	27.8	24.8	538	45
200	21.8	18.8	537	45
250	19.8	16.8	536	45

## Sheath Mechanical Characteristics

Reference Standard: UL 444

### Test Material

Before	Tensile Strength(Mpa)	LDPE	≥9.7
Aging	Elongation(%)		≥350
After	Tensile Strength(% of unaged)		≥75
Aging	Elongation(% of unaged)		≥75
	Cold Bend(-20±°C x4hrs)		No crack
	Operating Temperature Range		-10~+60°C
	Min.Bend Radius(Install)		8xD

## PAN-ASIA CABLE LIMITED

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## Revision History

Rev. : A/0

Prepared by : King Date: 11/04/2016  
Approved by: Gavin Page: 1 of 1

Note : The specifications are subjected to change without prior notice.