



Your Premier Cable Innovator

SPECIFICATION FOR APPROVAL

CUSTOMER : MIZU

CUSTOMER P/N : UT-5004 MIZU

DESCRIPTION : U/UTP Solid Cat.5e 4 Pair 25AWG - PVC Cable

VENDOR P/N : SB2AC010

REV. NO : 951214

DATE : 16th July 2009

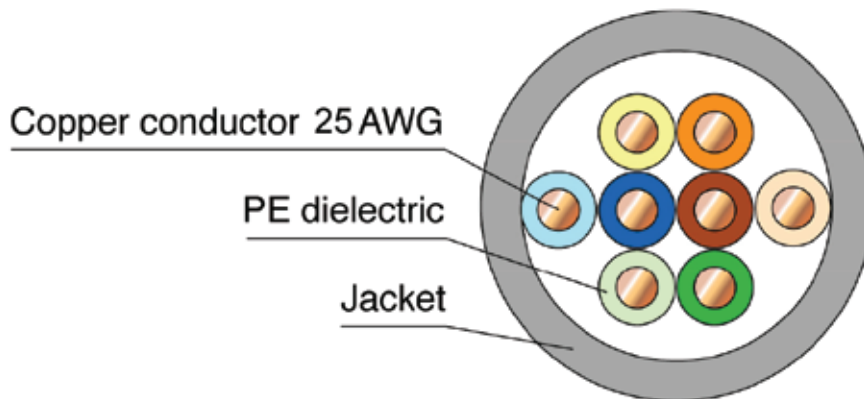
PART NO : 9R5065

審核 (Check) : _____ 工程部 (Engineer) : _____

9R5065

U/UTP Cat.5e

Cable: 4 Pair 25AWG Solid---PVC



Reference Standards

ISO/IEC 11801; IEC 61156-5; EN50173; EN50288-3-1; TIA/EIA -568B.2

Construction

Conductor	Bare copper wire nom. 1 x 0.49 mm (AWG25)
Insulation	Polyethylene, nom. 0.88 mm
Twisting	4 twisted pairs, 2 single conductors paired, Twisted pair color code: 1: white-blue / blue 2: white-orange / orange 3: white-green / green 4: white-brown / brown
Cable lay up	4 pairs with different pitches
Outer jacket	PVC
Outer diameter	nom. 4.8 mm

Mechanical Properties

Bending radius	$\geq 4 \times OD$ without load $\geq 8 \times OD$ with load
Temperature range, during operation	-20°C up to 60°C
during installation	0°C up to 50°C

Electrical Properties (at 20°C ± 5°C)

DC resistance	max. 10.28 Ω / 100 m at 20 °C
Resistance unbalance	max. 2 % at 20 °C
Insulation resistance (500V)	min. 5000 MΩ/Km at 20 °C
Mutual capacitance	nom. 5.1 nf / 100 m at 1 kHz
Capacitance unbalance (pair to ground)	max. 160 pf / 100 m at 1 kHz
Characteristic impedance (1-100 MHz)	100 Ω ± 15 Ω
Nominal velocity of propagation	nom. 66 %
Test voltage (DC, 1 min)	1 kV / 1 min

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Transmission performance acc. to IEC 61156-5 (at 20°C)

Frequency (MHz)	Impedance (Ω)	Attenuation (dB) Max.	NEXT (dB) Min.	PSNEXT (dB) Min.	ELFEXT (dB) Min.	PSELFEXT (dB) Min.
1	100 ± 15	*(2.1)	65.3	62.3	63.8	60.8
4		4.1	56.3	53.3	51.7	48.7
10		6.5	50.3	47.3	43.8	40.8
16		8.2	47.3	44.3	39.7	36.7
20		9.3	45.8	42.8	37.7	34.7
31.25		11.7	42.9	39.9	33.9	30.9
62.5		16.7	38.4	35.4	27.8	24.8
100		22	35.3	32.3	23.8	20.8

Frequency (MHz)	Return Loss (dB) Min.	Propagation Delay (ns) Max.	Delay Skew (ns) Max.
1	20.0	570.0	45
4	23.0	552.0	
10	25.0	545.4	
16	25.0	543.0	
20	25.0	542.0	
31.25	23.6	540.4	
62.5	21.5	538.6	
100	20.1	537.6	

*Values shown on tables above are for reference purpose only.



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