



Your Premier Cable Innovator

SPECIFICATION

CUSTOMER : WECL

CUSTOMER P/N :

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

VENDOR P/N : SB2AK015

REV. NO : 2012.04.09

DATE : 2012.04.09

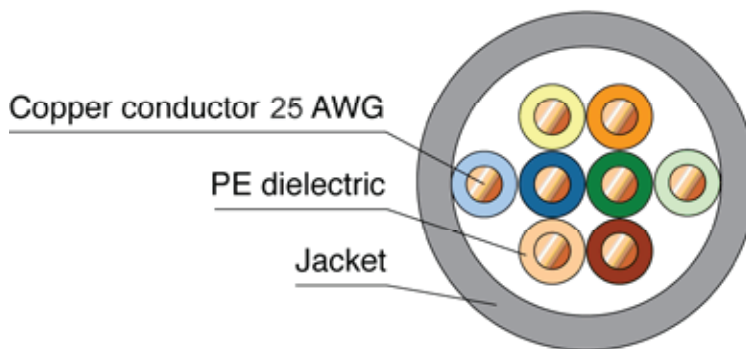
PART NO : GAA Series

審核 (Check) : Jacky Huang 工程 部 (Engineer) : Vicky Chen

GAA Series

U/UTP Solid Cat.5e

Cable: 4 Pair 25AWG Solid



Reference Standards

IEC 61156-5; ANSI/TIA-568-C.2

Construction

Conductor	Bare copper wire nom. 1 x 0.48 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	4pairs with different pitches
Outer diameter	Nom. 5.1 mm

Mechanical Properties

Bending radius	≥ 4xOD without load ≥ 8xOD 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. 10.5 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
Nominal velocity of propagation	nom. 67%
Test voltage (DC, 1 min)	1 kV / 1 min



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Transmission Performance acc. to IEC 61156-5 (at 20 °C / 100 m)

Frequency (MHz)	Impedance (Ω)	Attenuation (dB) Max.	NEXT (dB) Min.	PSNEXT (dB) Min.	ACRF (dB) Min.	PSACRF (dB) Min.
4	100 \pm 15	4.1	56.3	53.3	52.0	49.0
10		6.5	50.3	47.3	44.0	41.0
16		8.3	47.2	44.2	39.9	36.9
20		9.3	45.8	42.8	38.0	35.0
31.25		11.7	42.9	39.9	34.1	31.1
62.5		17.0	38.4	35.4	28.1	25.1
100		22.0	35.3	32.3	24.0	21.0

Frequency (MHz)	Return Loss (dB) Min.	Propagation Delay (ns) Max.	Delay Skew (ns) Max.
4	23.0	552.0	45
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	

Fire Rating:

Material	Fire Rating
LSZH	IEC 60332-1
FRLSZH	UL 444 CM
PVC	IEC 60332-1
FRPVC	UL 444 CM
Outdoor PE	NA