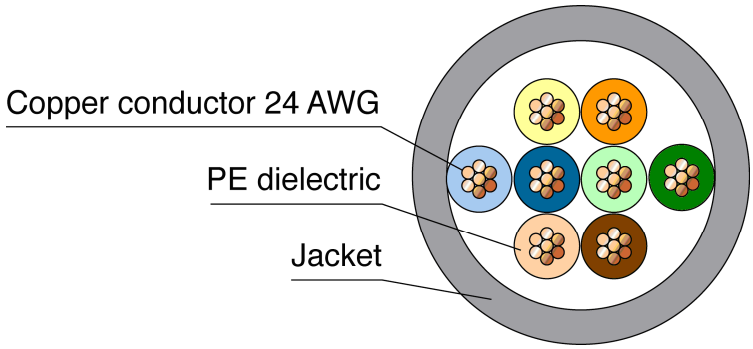
GAD Series	U/UTP Patch Cat.5e
	Cable: 4 Pair 24AWG Patch



Reference Standards IEC 61156-6; ANSI/TIA-568C.2

Construction

Conductor	Stranded plain anneal bare copper wire 7/0.195 +0/-0.01 mm (AWG24)
Insulation	Polyethylene, 0.95+/-0.05 mm
Twisting	4 twisted pair, 2 cores to the pair 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 diameter	5.4 +/-0.3 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. 9.38 Ω / 100 m at 20 °C
Resistance unbalance	max. 5 % 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 ref. to ANSI/TIA-568-C.2 Cat.5e (at 20 °C)

Frequency (MHz)	Fitted Impedance (Ω)	Attenuation (dB) Max.	NEXT (dB) Min.	PSNEXT (dB) Min.	ACRF (dB) Min.	PSACRF (dB) Min.
1	100 ± 15	3.1	65.3	62.3	64.0	61.0
4		6.1	56.3	53.3	52.0	49.0
10		9.7	50.3	47.3	44.0	41.0
16		12.4	47.2	44.2	39.9	36.9
20		13.9	45.8	42.8	38.0	35.0
31.25		17.6	42.9	39.9	34.1	31.1
62.5		25.5	38.4	35.4	28.1	25.1
100		33.0	35.3	32.3	24.0	21.0

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	23.3	540.4	
62.5	20.7	538.6	
100	19.0	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