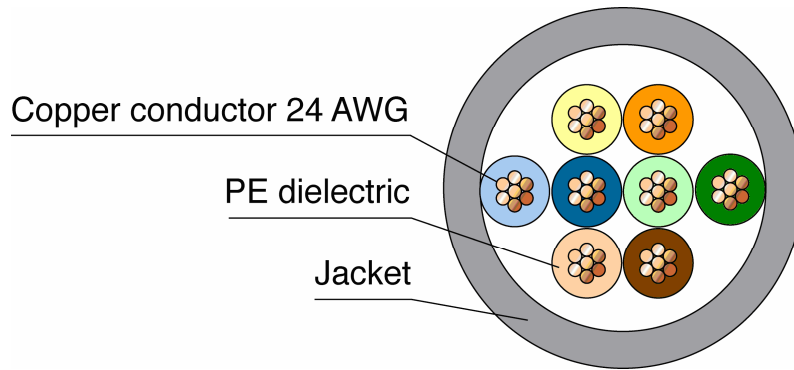


GAY Series	U/UTP Patch Cat.6
Cable: 4 Pair 24AWG Patch---LSZH	



Reference Standards

ISO/IEC 11801; IEC 61156-6; EN50173; EN50288-6-2; TIA/EIA -568B.2-1

Construction

Conductor	Stranded anneal copper wire nom. 7x 0.186 mm (AWG24)
Insulation	Polyethylene, nom. 1.0 mm
Twisting	4 twisted pair, 2 cores to the pair, Twisted pair color code: 1: white-blue / blue 2: white-green / green 3: white-orange / orange 4: white-brown / brown
Cable lay up	4 pairs with different pitches
Outer jacket	LSZH
Outer diameter	Nom.5.4 mm

Mechanical Properties

Bending radius	$\geq 4xOD$ without load $\geq 8xOD$ 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 M Ω /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. 66 %
Test voltage (DC, 1 min)	1 kV / 1 min

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Transmission performance acc. to IEC 61156-6 Cat.6 (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	3.1	74.3	71.3	67.8	64.8
4		5.8	65.3	62.3	55.8	52.8
10		9.0	59.3	56.3	47.8	44.8
16		11.4	56.3	53.3	43.7	40.7
20		12.8	54.8	51.8	41.8	38.8
31.25		16.1	51.9	48.9	37.9	34.9
62.5		23.3	47.4	44.4	31.9	28.9
100		29.9	44.3	41.3	27.8	24.8
125	100 ± 22	33.8	42.8	39.8	25.9	22.9
200		43.8	39.8	36.8	21.8	18.8
250		49.7	38.3	35.3	19.8	16.8

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	23.3	540.4	
62.5	20.7	538.6	
100	19.0	537.6	
125	18.2	537.2	
200	16.4	536.6	
250	15.6	536.3	