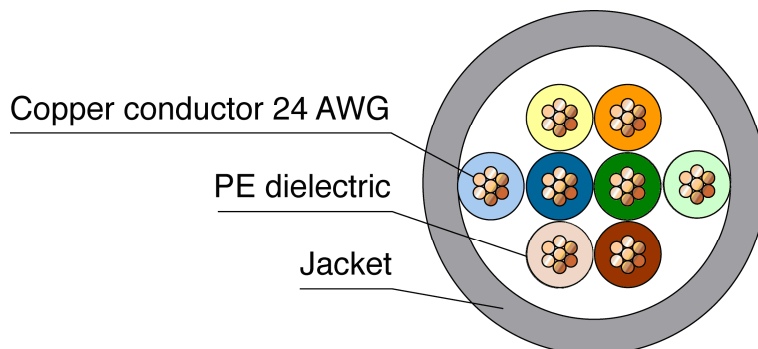


R/E8/Ugt lgu

U/UTP Patch Cat.6

Cable: 4 Pair 24AWG Patch



Reference Standards

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

Construction

Conductor	Stranded plain anneal bare copper wire 7/0.195 +0/-0.011 mm (AWG24)
Insulation	Polyethylene, 0.97 +/-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	$\geq 4xOD$ 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. 67 %
Test voltage (DC, 1 min)	1 kV / 1 min

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Transmission Performance ref. to ANSI/TIA-568-C.2 Cat.6 (at 20 °C / 100m)

Frequency (MHz)	Fitted Impedance (Ω)	Attenuation (dB) Max.	NEXT (dB) Min.	PSNEXT (dB) Min.	ACRF (dB) Min.	PSACRF (dB) Min.
1	100 ± 15	3.0	74.3	71.3	67.8	64.8
4		5.7	65.3	62.3	55.8	52.8
10		8.9	59.3	56.3	47.8	44.8
16		11.3	56.3	53.3	43.7	40.7
20		12.7	54.8	51.8	41.8	38.8
31.25		16.0	51.9	48.9	37.9	34.9
62.5		23.1	47.4	44.4	31.9	28.9
100		29.7	44.3	41.3	27.8	24.8
125		33.5	42.8	39.8	25.9	22.9
200		43.5	39.8	36.8	21.8	18.8
250		49.3	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	18.1	537.2	
200	16.4	536.6	
250	15.6	536.3	

P/N and Marking

Material	Customer P/N	Length	Marking	Color	Color	Fire Rating
LSZH	P-C6-UTP	500M	U-UTP 24AWG CATEGORY 6 ECS PATCH CABLE LSZH IEC60332-1 XXXXXXXXXX (BATCH CODE)	Blue	Light Grey	IEC 60332-1
	P-C6-UTP/BL	500M			Blue	
	P-C6-UTP/GN	500M			Green	
	P-C6-UTP/RD	500M			Red	