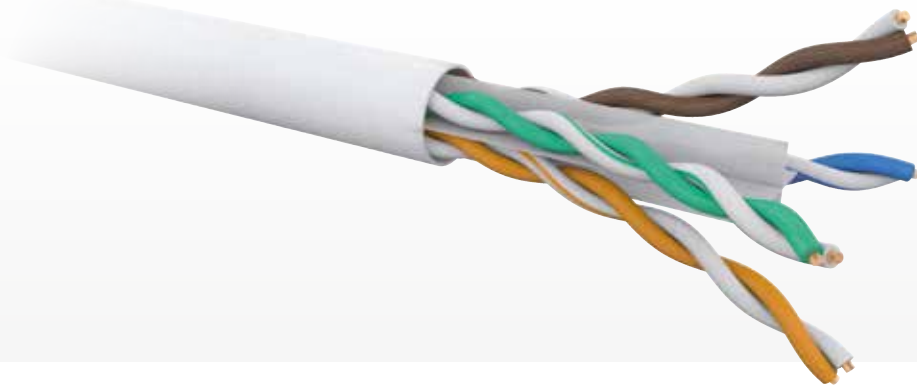


CAT6 U/UTP AWG24 LSZH Dca SOLID CABLE



APPLICATIONS

- IEEE802.3:
5GBase-T, 2.5GBase-T, 1000Base-T (Gigabit Ethernet), 100Base-Tx, 10Base-T
- ANSI / TIA / EIA: 1000Base-Tx
- IEEE 802.3at/af (PoE/PoE+)

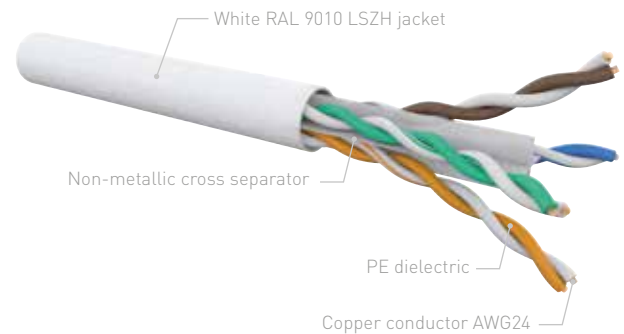


GIGAMEDIA CAT6 solution is designed to meet and exceed the performance levels described in the published cabling standards ISO/ IEC 11801, and ANSI/TIA/EIA 568C series and EN50173-1. The performance headroom provided makes it a reliable and safe choice to support all Class E applications including Gigabit Ethernet and PoE.

MECHANICAL CHARACTERISTICS

ITEM	JACKET	CONDUCTORS	INSULATION (MM)	EXTERNAL DIAMETER (MM)	BENDING RADIUS (MM)	INSTALLATION TENSION (N)
4	LSZH	AWG24	0,95	5,6	≥ 4 x OD without load ≥ 8 x OD with load	80

- Temperature rating (operation): -20 °C to +60 °C
- Temperature rating (installation): -20 °C to +60 °C
- Standards: ANSI/TIA-568-C.2
EN50173
ISO/IEC11801 2nd Ed. Amd 2
IEC 61156-5 : Ed.2.0
- Fire behaviour:
EN 13501-6: Dca, s2, d2, a1
EN 50575, EN 50399, EN 60332-1-2



CABLE MARKED

GIGAMEDIA EN50173 CAT6 U/UTP LSZH C6U4PDCA – TP023A Dca NVP 67% 4 PAIRS 24AWG [Lot n°] XXXXX

TRANSMISSION PERFORMANCE

FREQUENCY (MHZ)	IMPEDANCE (Ω)	ATTENUATION (dB/100 m)	RETURN LOSS (dB)	NEXT (dB/100 m)	PSNEXT (dB/100 m)	ELFEXT (dB/100 m)	PS-ELFEXT (dB/100 m)
1	100 \pm 15	2	20	74,3	72,3	67,8	64,8
4	100 \pm 15	3,8	23	65,3	63,3	55,8	52,8
10	100 \pm 15	6	25	59,3	57,3	47,8	44,8
16	100 \pm 15	7,6	25	56,2	54,2	43,7	40,7
20	100 \pm 15	8,5	25	54,8	52,8	41,8	38,8
31,25	100 \pm 15	10,7	23,6	51,9	49,9	37,9	34,9
62,5	100 \pm 15	15,4	21,5	47,4	45,4	31,9	28,9
100	100 \pm 15	19,8	20,1	44,3	42,3	27,8	24,8
200	100 \pm 15	29	18	39,8	37,8	21,8	18,8
250	100 \pm 15	32,8	17,3	38,3	36,3	19,8	16,8

ELECTRICAL CHARACTERISTICS (20 °C \pm 5 °C)

- Conductor resistance: 93.8 Ω /km 20 °C max
- Mutual Capacitance: 5.6 nF/100m max
- Resistance Unbalance: 5% max
- Capacitance Unbalance: 330 pF/100m max
- Nominal velocity of propagation: 67 %
- Impedance (1-250 MHz): 100 \pm 15 Ω

ORDERING INFORMATION

P/N	DESCRIPTION		
GGM C6U4PDCARU3	4 pairs CAT6 U/UTP AWG24 LSZH Dca	white	305 m box