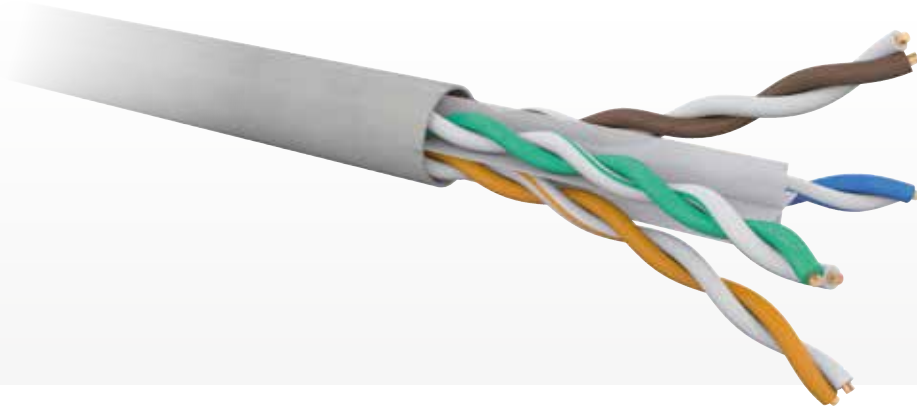


CAT6 U/UTP AWG24 PVC Eca SOLID CABLE



APPLICATIONS

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

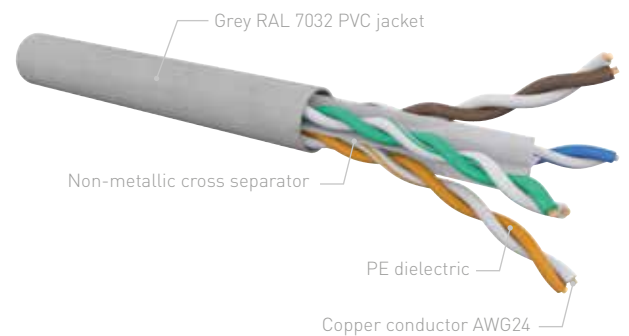
GIGAMEDIA CAT6 solution is designed to meet and exceed the performance levels described in the published cabling standards ISO/ IEC 11801, and ANSI/TIA/EIA 568C series and EN50173-1. The performance headroom provided makes it a reliable and safe choice to support all Class E applications including Gigabit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

MECHANICAL CHARACTERISTICS

ITEM	JACKET	CONDUCTORS	INSULATION (MM)	EXTERNAL DIAMETER (MM)	BENDING RADIUS (MM)	INSTALLATION TENSION (N)
4	PVC	AWG24	0,95	5,8	≥ 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 : Eca (EN 60332-1-2)



CABLE MARKED

GIGAMEDIA EN50173 CAT6 U/UTP PVC C6U4PECA – TP024B Eca NVP 69% 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
- Resistance Unbalance: 5% max
- Delay skew (ns/100m) : \leq 45
- Nominal velocity of propagation: 69 %
- Impedance (1-250 MHz): 100 \pm 15 Ω

ORDERING INFORMATION

P/N	DESCRIPTION		
GGM C6U4PECARC05	4 pairs CAT6 U/UTP AWG24 PVC Eca	grey	50 m coil
GGM C6U4PECARC1	4 pairs CAT6 U/UTP AWG24 PVC Eca	grey	100 m coil
GGM C6U4PECARU3	4 pairs CAT6 U/UTP AWG24 PVC Eca	grey	305 m box