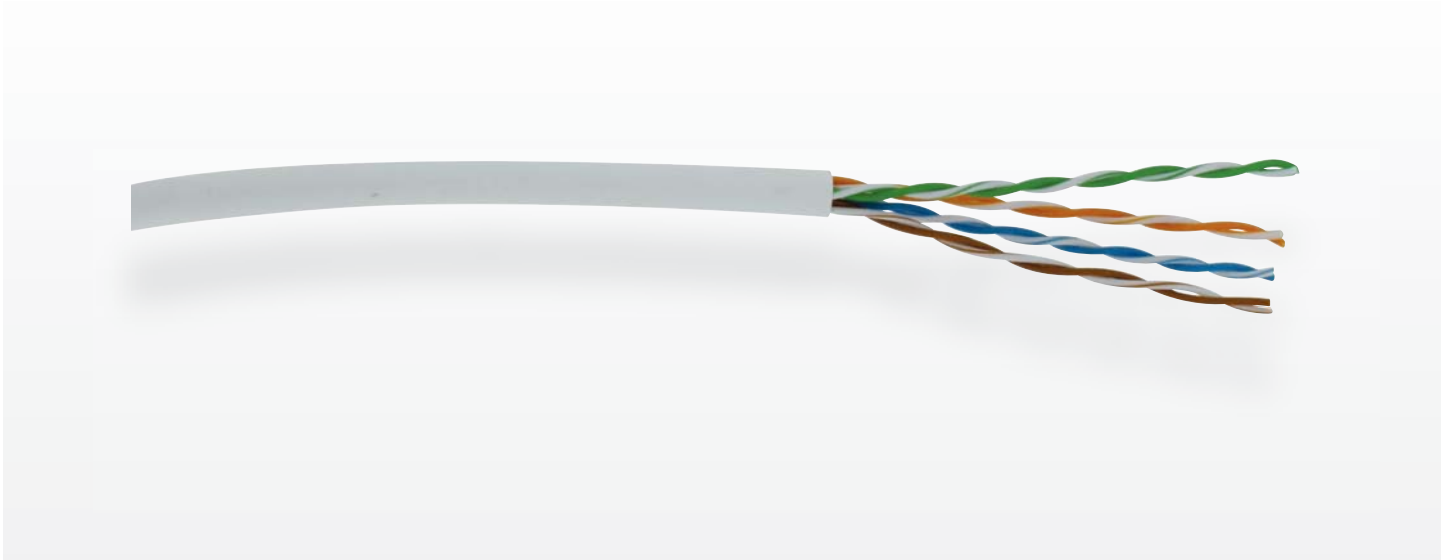




GIGAMEDIA CAT5E U/UTP SOLID CABLE



APPLICATIONS

- Specifically designed to comply with performance requirements
- Meet and exceed all TIA/EIA 568 C.2 CAT5e cable performances
- IEEE 802.5 16 MB and IEEE802.3 : 10Base-T; 100Base-T; 1000Base-T;

STANDARDS

- EIA/TIA 568-C.2
- ISO/IEC 11801; IEC 61156-5; EN50173-1; EN50288-6-1

FLAME RATING

- IEC 60332-1; IEC60754-2; IEC61034 (LSOH)

CONSTRUCTION

- **Conductors** : Bare copper conductor \varnothing 0.5 mm (AWG24) with polyethylene insulation
- **Insulation** : Polyethylene, \varnothing 0.9 mm
- **Assembly** : 4 twisted pairs with different pitches
- **External outsheet** : LSOH White RAL9005
- **Outer diameter** : 5.0 mm
- **Cable marked** : GIGAMEDIA EN50173-1 ANSI/EIA-568-C.2 CATEGORY5E U/UTP LSOH IEC61034 4PAIR 24AWG (Lot^o) 0000 m

ITEM	EXTERNAL DIAMETRE (MM)	BEND RADIUS MINIMUM (MM)		Ø OF CONDUCTORS INSULATION (MM)	TEMPERATURE RATING INSTALLATION	INSTALLATION TENSION (N)
4 pairs	5.0	operationnal 4XOD	installation 8XOD	-- 0.9	0 °C +50°C	80

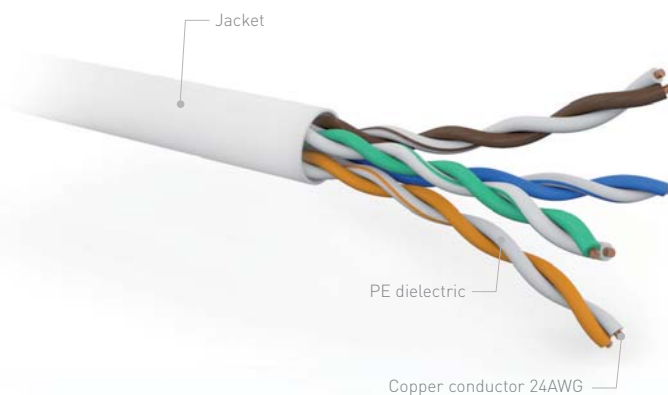
MECHANICAL CHARACTERISTICS

- **Bending radius**
 - ± 4 x OD without load
 - ± 8 x OD with load
- **Temperature rating**
 - 20 °C to + 60 °C during operation
 - 0 °C to + 50 °C during installation



ELECTRICAL CHARACTERISTICS (20 °C ± 5 °C)

• Loop Résistance	± 190 Ω/km
• Insulation resistance (500 V)	± 2000 m Ω/km
• Capacitance @ 1 kHz nom.	33 pF/km
• Unbalanced capacity (pairs/floor)	Max. 150 pF/100m at 1 kHz
• Impedance (1-200 MHz)	(100 ± 15) Ω
• Velocity of propagation	nom. 67 %
• Propagation delay	± 535 ns/100m
• Skew delay	± 20 ns/100m



TRANSMISSION PERFORMANCE

FREQUENCY (MHZ)	IMPEDANCE (OHMS)	ATTENUATION (dB)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB)
1	22.0	2.0	68.3	65.3	66.0	63.0
4	25.0	4.1	59.3	56.3	54.0	51.0
8	26.5	5.8	54.8	51.8	47.9	44.9
10	27.0	6.5	53.3	50.3	46.0	43.0
16	27.0	8.2	50.3	47.3	41.9	38.9
20	27.0	9.3	48.8	45.8	40.0	37.0
25	26.3	10.4	47.3	44.3	38.0	35.0
31.25	25.6	11.7	45.9	42.9	36.1	33.1
62.5	23.5	17.0	41.4	38.4	30.1	27.1
100	22.1	22.0	38.3	35.3	26.0	23.0
200	20.0	32.4	33.8	30.8	20.0	17.0

ORDERING INFORMATION

P/N	DESCRIPTION
GGM C5EU4PZHBU1	4P CAT5E U/UTP LSZH WHITE 100 m
GGM C5EU4PZHBU3	4P CAT5E U/UTP LSZH WHITE 305 m
GGM C5EU4PZHBT5	4P CAT5E U/UTP LSZH WHITE 500 m

