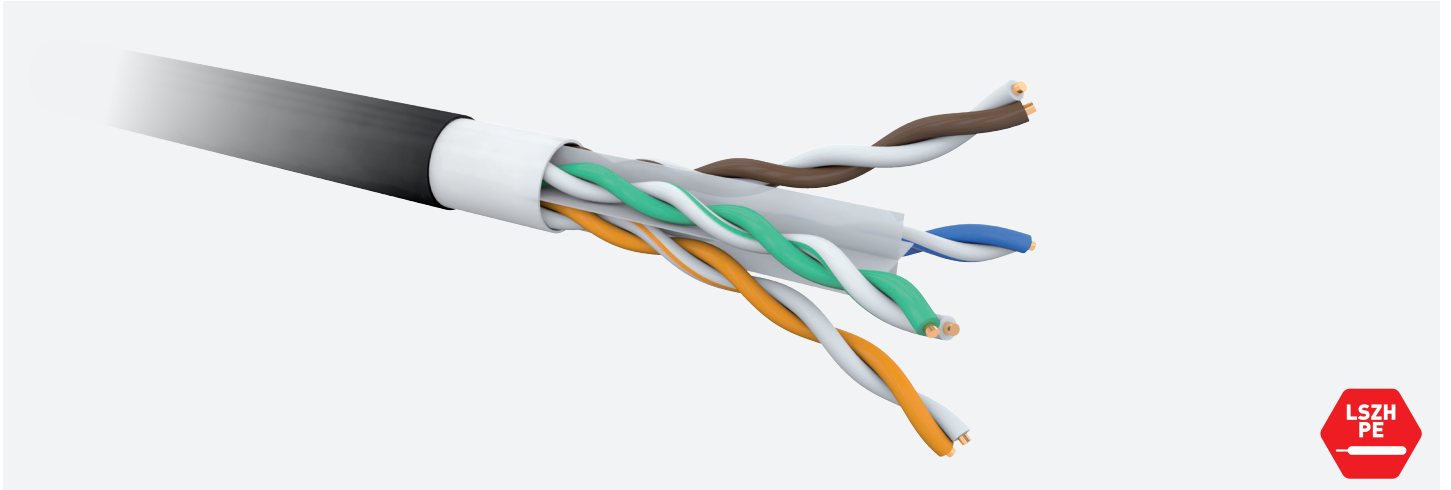




CAT6 U/UTP LSZH/PE CABLE

GGM C6U4PHFPExx



APPLICATIONS

- ▶ Outside building installations (e.g. IP cameras, access points)
- ▶ IEEE802.3: 5GBase-T, 2.5GBase-T, 1000Base-T (Gigabit Ethernet), 100Base-Tx, 10Base-T
- ▶ ANSI / TIA / EIA: 1000Base-Tx
- ▶ IEEE 802.3af/at/bt (PoE/PoE+/4PPoE)

GIGAMEDIA CAT6 solution is designed to meet and exceed the performance levels described in the published cabling standards ISO/ IEC 11801 and EN 50173.

The performance headroom provided makes it a reliable and safe choice to support all Class E applications including 5 Gigabit Ethernet and 4PPoE.

Thanks to its LSZH/PE double jacket, this cable is particularly adapted for an outdoor use (UV protection) and can also be installed indoors if the PE jacket is removed.

A dual solution for your deployments!

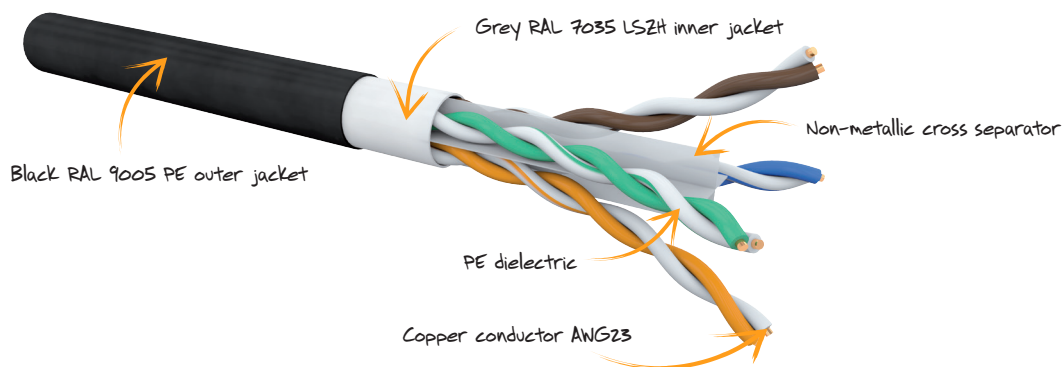
MECHANICAL CHARACTERISTICS

- ▶ Pairs: 4
 - ▶ Conductors: bare copper conductor \varnothing 0.55 mm (AWG23) with polyethylene insulation
 - ▶ Insulation: polyethylene, \varnothing 1.0 mm
 - ▶ Assembly: 4 twisted pairs with different pitches, non-metallic separator (spine)
 - ▶ Inner jacket: grey LSZH Dca; 6.3 mm
 - ▶ Outer jacket: black LDPE; 7.3 mm
 - ▶ Bending radius:
- ▶ Operationnal: 4 x OD
 - ▶ Installation: 8 x OD
 - ▶ Installation tension: 80 N
 - ▶ Temperature rating: -20 °C to +50 °C (installation)
 - ▶ Standards: ANSI/TIA-568.2-D ; ISO/IEC11801 ; EN50173 ; IEC 61156-5 ; EN50288-6-1

CABLE MARKED

Inner LSZH jacket: GIGAMEDIA EN50173 CAT6 U/UTP LSZH C6U4PZH-TP011C Dca NVP 69% 4 PAIR 23AWG [lot n°] XXXXXX m

Outer PE Jacket: GIGAMEDIA EN 50173 CAT6 U/UTP LSZH/PE OUTDOOR CABLE NVP 69% 4 PAIR 23AWG [lot n°] XXXXXX m



TRANSMISSION PERFORMANCE

FREQUENCY (MHz)	ATTENUATION (dB/100m)	NEXT (dB/100m)	PSNEXT (dB/100m)	ACR (dB/100m)	FEXT (dB/100m)	PS-ELFEXT (dB/100m)
1	2	74.3	72.3	72.3	68	65
4	3.8	65.3	63.3	61.5	56	53
8	5.3	60.8	58.8	55.5	49.9	46.9
10	6	59.3	57.3	53.4	48	45
16	7.6	56.2	54.2	48.7	43.9	40.9
20	8.5	54.8	52.8	46.3	42	39
25	9.5	53.3	51.3	43.8	40	37
31.25	10.7	52	50	41.3	38.1	35.1
62.5	15.4	47.4	45.4	32	32.1	29.1
100	19.8	44.3	42.3	24.5	28	25
200	29	39.8	37.8	10.8	22	19
250	32.9	38.3	36.3	5.5	20	17

- ▶ Propagation delay: ≤ 535 ns/100m
- ▶ Delay skew: ≤ 45 ns/100m
- ▶ Conductor resistance: ≤ 190 Ω /km 20 °C max
- ▶ DC resistance unbalance: 5 % max
- ▶ NVP: 69 %
- ▶ Characteristic impedance: 100 ± 15 Ω

PART NUMBER	DESCRIPTION		
GGM C6U4PHFPEC1	4 pairs AWG23 CAT6 U/UTP LSZH/PE	black	100 m (coil)
GGM C6U4PHFPET3	4 pairs AWG23 CAT6 U/UTP LSZH/PE	black	305 m (drum)
GGM C6U4PHFPET5	4 pairs AWG23 CAT6 U/UTP LSZH/PE	black	500 m (drum)