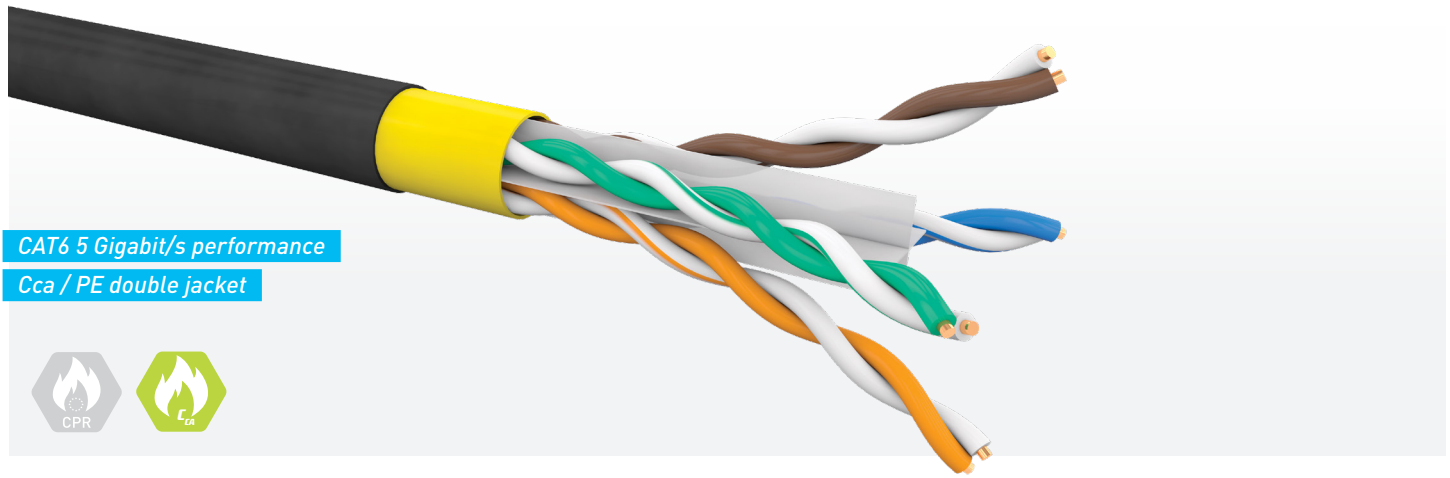
GIGAMEDIA
SMART BUILDING SOLUTIONS

CAT6 U/UTP LSZH-FR Cca / PE CABLE

GGM C6U4PFRPExx



APPLICATIONS

- **IEEE802.3:** 5GBase-T, 2.5GBase-T, 1000Base-T (Gigabit Ethernet), 100Base-Tx, 10Base-T
- **IEEE 802.3af:** PoE
- **IEEE 802.3at:** PoE+
- **IEEE 802.3bt:** 4 PPoE

This cable has been designed to exceed the requirements of ISO/IEC 11801 and EN 50173 for Category 6 components. The performance headroom provided makes it a reliable and safe choice to support all class E applications including 5 Gigabit Ethernet and PoE.

With its LSZH-FR (Cca) / PE double jacket, it is particularly suitable for outdoor installations.

It can also be installed indoors once the PE outer jacket has been withdrawn.

MECHANICAL CHARACTERISTICS

ITEM	JACKET	CONDUCTORS	INSULATION (mm)	EXTERNAL DIAMETER (mm)	GROSS WEIGHT (kg)	BENDING RADIUS (mm)
4	LSZH-FR / PE	AWG23	1	6 / 7.2 (LSZH-FR/PE)	51.6	57.6

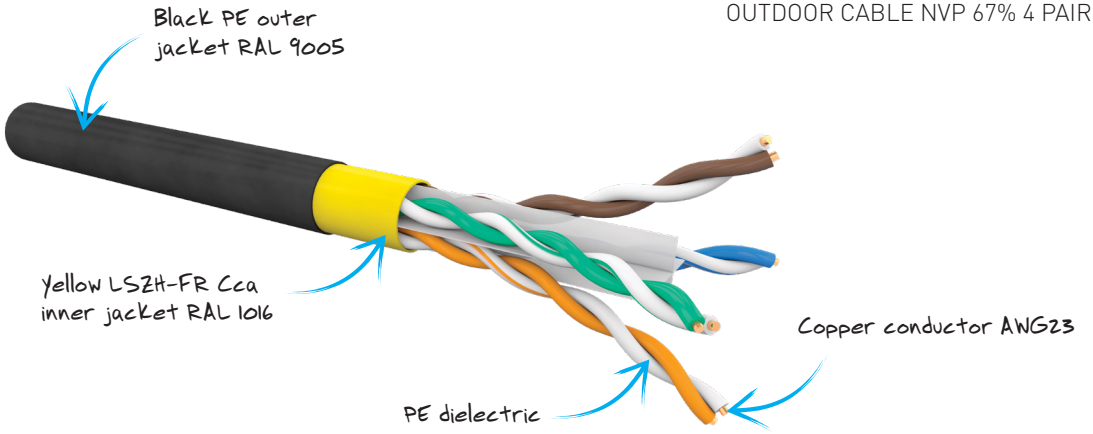
- Temperature rating
  0 °C to +50 °C (installation)
  -20 °C to +60 °C (operating)
- Standards:
  ANSI/TIA-568-2-D (CAT6),EN50173 CAT6,
  ISO/IEC11801 CAT6, IEC 61156-5 : Ed.2.0
- Fire behaviour (inner jacket):
  EN 13501-6: Cca-s1a, d1, a1
  EN 50575, EN 50399, EN 60332-3

P/N	DESCRIPTION	PACKAGING
GGM C6U4PFRPET3	CAT6 4 pairs AWG23 U/UTP LSZH-FR Cca / PE outdoor - black	Drum 305 m
GGM C6U4PFRPET5	CAT6 4 pairs AWG23 U/UTP LSZH-FR Cca / PE outdoor - black	Drum 500 m

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OUTER JACKET CABLE MARKED

GIGAMEDIA C6U4PFRPExx EN50173 CAT6 U/UTP LSZH-FR / PE
OUTDOOR CABLE NVP 67% 4 PAIR 23AWG (batch #) (lot #) xxx M



TRANSMISSION PERFORMANCE

FREQUENCY (MHZ)	IMPEDANCE (Ω)	ATTENUATION (DB) MAX	NEXT (DB) MIN	PSNEXT (DB) MIN	ACRF (DB) MIN	PSACRF (DB) MIN	RETURN LOSS (DB) MIN	PROPAGATION DELAY (NS) MAX	DELAY SKEW (NS) MAX
4	100 ±15	3.8	66.3	63.3	55.8	52.8	23.0	552.0	45
10		6.0	60.3	57.3	47.8	44.8	25.0	545.4	
16		7.6	57.2	54.2	43.7	40.7	25.0	543.0	
20		8.5	55.8	52.8	41.8	38.8	25.0	542.0	
31.25		10.7	52.9	49.9	37.9	34.9	23.6	540.4	
62.5		15.4	48.4	45.4	31.9	28.9	21.5	538.6	
100		19.8	45.3	42.3	27.8	24.8	20.1	537.6	
125		22.4	43.8	40.8	25.9	22.9	19.4	537.2	
200		29.0	40.8	37.8	21.8	18.8	18.0	536.6	
250		32.8	39.3	36.3	19.8	16.8	17.3	536.3	

- Segregation class B
- Insulation resistance (500 V): ± 5000 MΩ/km
- Resistance unbalance: ⩽ 2 % at 20 °C
- Velocity of propagation: 67 %

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