



1. USE

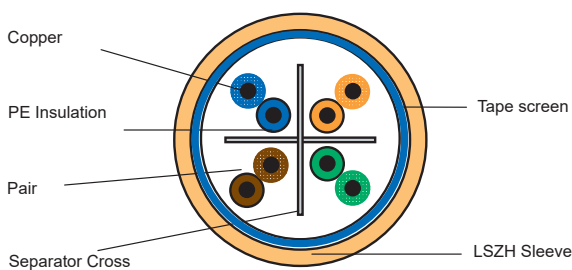
Cat. 6_A cables with 4 twisted pairs, 100 ohms very high speed, for horizontal floor or backbone distribution. These cables enable the use of protocols supported by Class EA up to 10G Base-T applications. It is characterised up to 500 MHz

802.3 bt PoE++ up to type 4 applications compatible according to installation standards ISO/IEC 14763-2 : 2019 and EN 50174-2 : 2018

1.1 Particularities

- U/UTP cable with a continuous strip section without shielding continuity. This strap allows a reduced external diameter of the cable compared to the solutions usually proposed in Cat 6_A U/UTP; serves as protection against external disturbances (Aliencrosstalk)
- Cable to be connected to UTP sockets
- For optimum use, cut the strip flush with the sheath.

2. DESCRIPTION



3. MARKING AND PACKAGING

Marking of Legrand cables

- LEGRAND
- Catalogue number
- Number of pairs
- Gauge
- Type
- Impedance
- Type of sleeve
- Category
- Conformity to standards
- EUROCLASS
- Velocity of propagation
- Traceability
- Measurement (remaining length in metres).

Complementary marking (on label)

- Designation
- Made in....

4. PERFORMANCE AT 500 MHZ (STAND. ISO/IEC 11801)

Reference	6 327 47
Maximum attenuation (dB/100 m)	45,3
Minimum NEXT (dB)	33,8
PS NEXT (dB)	31,8
ACRF (dB/ 100 m)	13,8
PS ACRF (dB/ 100 m)	10,8
Return Loss (dB)	15,2

5. TECHNICAL AND MECHANICAL FEATURES

Catalogue number	6 327 47
Type	U/UTP
Type of sleeve	LSZH
Number of pairs	4
Assembly	Pairs
Diameter over insulation (mm)	1,11±0,1
Average nominal diameter of the cable (mm)	7,3±0,4
Weight of cable (kg/km)	46.5
Min. bending radius when laying (mm)	58
AWG gauge*	23

* According to UL 444 ed.3 table 4

6. ELECTRICAL FEATURES AT 20°C

Catalogue number	6 327 47
Type	U/UTP
Maximum linear resistance (ohm/km)	81*
DC dielectric strength	1 KV / 1 min *
Minimum insulation resistance (Mohm.km)	5000
Nominal Velocity of Propagation (NVP)	≥65%
Characteristic impedance at 100 MHz	100 ±5Ω

* According to standard IEC 61156-5

7. ORDERING INFORMATION

Catalogue number	6 327 47
Type	U/UTP
Colour	Yellow sun RAL 1037
Pack (m)	500
Packaging	Reel

8. ENVIRONMENTAL FEATURES

Transport and storage temperature: 0 at + 50 °C
 Storage temperature before use: 10°C during 24h (if stock ≤ 5°C)
 Usage temperature: – 20 to + 60 °C

Fire rating:EN 50399, IEC 60332-1-2, EN 60332-1-2
 Smoke density : IEC 61034-2, EN 61034-2
 Toxicity of fire effluent : IEC 60754-2, EN 60754-2

EUROCLASS EN 13501-6 = Class Eca

9. STANDARDS AND APPROVALS

Cat 6A, 500 MHz
 Electrical performances and characteristics :
 ISO/IEC 11801 series : International standard for generic cabling for customer premises
 ANSI/TIA 568 series : North American standard for generic cabling for customer premises
 EN 50173 series : European standard for generic cabling for customer premises
 IEC 61156 : International standard for twisted pair cable specifications
 IEEE 802.3af , IEEE 802.3at , IEEE 802.3bt : "Power over Ethernet", Types 1 to 4, up to 90W