

### 1. USE

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

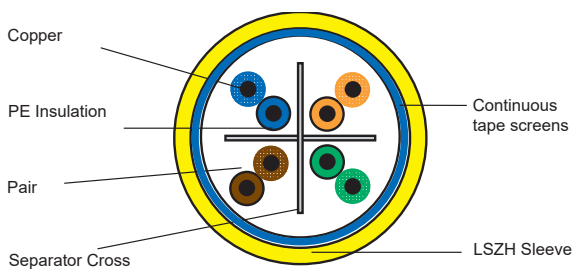
802.3 bt PoE++ up to type 4 applications compatible according to installation standards ISO/IEC 14763-2 : 2019 and EN 50174-2 : 2018

#### 1.1 Particularities

- U/UTP cable with a discontinuous strip section, cut every 15cm ensuring no shielding continuity. This strap allows a reduced external diameter of the cable compared to the solutions usually proposed in Cat 6A U/UTP; serves as protection against external disturbances (Aliencrosstalk) and above all makes it possible to reach a high EUROCLASS level within the framework of the RPC: Cca - s1a d1 a1

- 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 (length in meters).

Complementary marking (on label)

- Designation
- Made in....

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

Reference	0 328 28
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	0 328 28
Type	U/UTP
Type of sleeve	LSZH
Number of pairs	4
Assembly	Pairs
Diameter over insulation (mm)	1.14±0.06
Average nominal diameter of the cable (mm)	7.3±0.3
Weight of cable (kg/km)	50
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	0 328 28
Type	U/UTP
Maximum linear resistance (ohm/km)	76.1 *
DC dielectric strength	1 KV / 1 min *
Minimum insulation resistance (Mohm.km)	5000
« Nominal Velocity of Propagation (NVP) »	79 %
Characteristic impedance at 100 MHz	100 ±5Ω

\* According to standard IEC 61156-5

**7. ORDERING INFORMATION**

Catalogue number	0 328 28
Type	U/UTP
Colour	Yellow RAL 1018
Pack (m)	500
Packaging	Reel

**8. ENVIRONMENTAL FEATURES**

Transport and storage temperature: 0 to + 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, IEC 60332-3-24  
 Toxicity of fire effluent : IEC 60754-2, EN 60754-2

EUROCLASS EN 13501-6 = Class Cca s1a, d1, a1  
 Also compliant with Dca and 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

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