

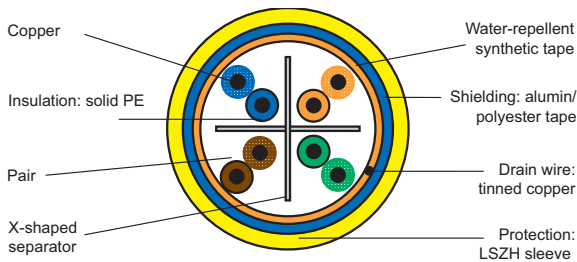


### 1. USE

Cat. 6<sub>A</sub> 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

### 2. DESCRIPTION



Note : The conductive part of the shielding is located on the wire side

### 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. ANSI/TIA 568.2-D)

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	0 327 78
Type	F/UTP
Type of sleeve	LSZH
Number of pairs	4
Assembly	Pairs
Diameter over insulation (mm)	1,16±0.05
Average nominal diameter of the cable (mm)	7,3±0.3
Weight of cable (kg/km)	51
Min. bending radius when laying (mm)	60
AWG gauge*	23

\* According to UL 444 ed.3 table 4

### 6. ELECTRICAL FEATURES AT 20°C

Catalogue number	0 327 78
Type	F/UTP
Maximum linear resistance (ohm/km)	93,8 *
DC dielectric strength	1 KV / 1 min *
Minimum insulation resistance (Mohm.km)	5000
Minimum propagation speed	65 %
Characteristic impedance at 100 MHz	100 ±5Ω

\* According to standard IEC 61156-5

**7. ORDERING INFORMATION**

Catalogue number	0 327 78
Type	F/UTP
Colour	Yellow RAL 1018
Pack (m)	500
Packaging	Reel

**8. ENVIRONMENTAL FEATURES**

Transport and storage temperature: -20 at + 60 °C  
Storage temperature before installation: 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 = Classe Dca s2d2a1  
Also compliant with Eca

**9. STANDARDS AND APPROVALS**

Cat 6<sub>A</sub>, 500 MHz

**9.1 INTERNATIONAL STANDARDS**

Electrical performances and characteristics :

ISO/IEC 11801 series : International standard for generic cabling for customer premises

ANSI/TIA 568.2-D : Commercial Building Telecommunications Cabling Standard

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.

**9.2 COUNTRY-SPECIFIC STANDARDS**

ANATEL 02551-10-6450 (Brazil)