

## Cat.6A F/UTP LSZH 2x4 pairs cable for local networks

Catalogue number(s) : 0 328 78

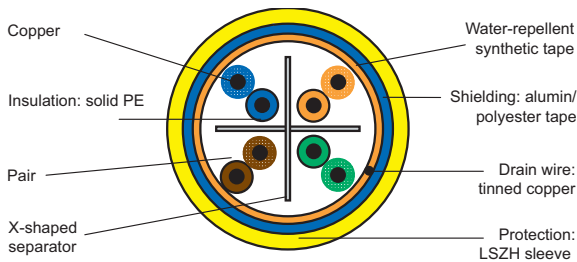


### 1. USE

Cat. 6A cables with 2x4 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	0 328 78
Type	F/UTP
Type of sleeve	LSZH
Number of pairs	2x4
Assembly	Pairs
Diameter over insulation (mm)	1,11±0.05
Average nominal diameter of the cable (mm)	7,7±0.3X15±0.3
Weight of cable (kg/km)	107
Min. bending radius when laying (mm)	62
AWG gauge*	23

\* According to UL 444 ed.3 table 4

### 6. ELECTRICAL FEATURES AT 20°C

Catalogue number	0 328 78
Type	F/UTP
Maximum linear resistance (ohm/km)	77*
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	0 328 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 6A, 500 MHz  
Electrical performances and characteristics :  
- ANSI/TIA 568.2-D  
- EN 50173-1  
- EN 50288-10-1  
- ISO/IEC 11801 (ed. 2.2)  
- IEC 61156-5  
IEEE 802.3bt : PoE++