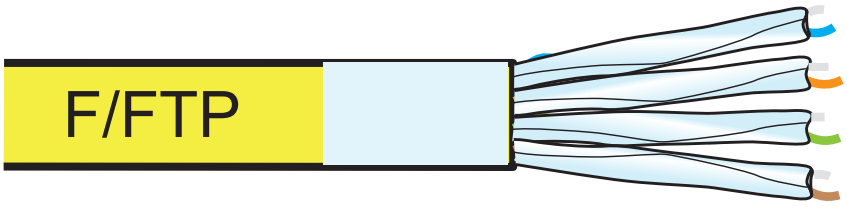
128, av. du Maréchal-de-Lattre-de-Tassigny - 87045 LIMOGES Cedex
Tel : 0 (+33) 5 55 06 87 87 Fax : 0 (+33) 5 55 06 88 88
www.legrand.com

Cat.6A F/FTP cable for local networks LSZH

Catalogue number(s) : 0 327 85/ 0 328 83

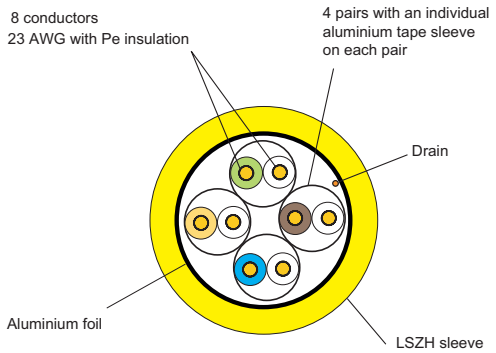


1. USE

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

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)

Maximum attenuation (dB/100 m):.....45,3
Minimum NEXT (dB):.....34,8
PS NEXT (dB) : 31,8
ACRF (dB / 100 m) :.....14
PS ACRF (dB / 100 m) :.....11
Return Loss (dB) :.....17,3

5. TECHNICAL AND MECHANICAL FEATURES

Catalogue number	0 327 85	0 328 83
Type	F/FTP	
Type of sleeve	LSZH	
Number of pairs	2 x 4	4
Assembly	Pairs	
Diameter over insulation (mm)	1.3 ± 0.03	
Average nominal diameter of the cable (mm)	7.2 ± 0.5 x 15 ± 0.3	7.2 ± 0.5
Weight of cable (kg/km)	> 105	> 51
Min. bending radius installation (mm)	61	
AWG gauge*	23	

* According to UL 444 ed.3 table 4

6. ELECTRICAL FEATURES AT 20°C

Catalogue number	0 327 85	0 328 83
Type	F/FTP	
Maximum linear resistance (ohm/km)	78	
DC dielectric strength	1 KV / 1 min *	
Minimum insulation resistance (Mohm.km)	5000	
Minimum propagation speed	79 %	
Characteristic impedance at 100 MHz	100 ±5Ω *	

* According to standard IEC 61156-5

7. ORDERING INFORMATION

Catalogue number	0 327 85	0 328 83
Type	F/FTP	
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 Cca s1a,d1,a1
Also compliant with Dca, Eca

9. STANDARDS AND APPROVALS

Cat 6A, 500 MHz
Electrical performances and characteritics :

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.