

1. USE

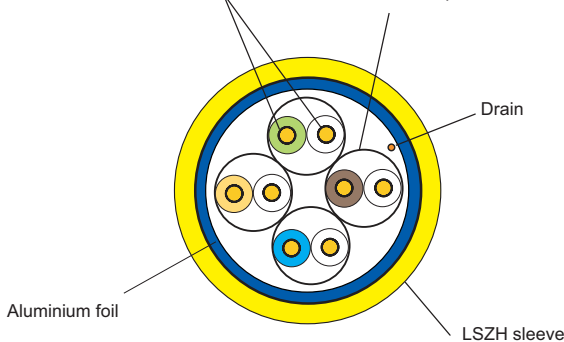
Cat. 6A cables with 4 twisted pairs, 100 ohms very high speed, for horizontal floor or backbone distribution. This cables enable the use of protocols supported by Class EA for 10G Base-T applications. It is characterised up to 500 MHz

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

8 conductors
 23 AWG with Pe insulation

4 pairs with an individual aluminium tape sleeve on each pair



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):	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 98	0 327 99
Type	F/FTP	
Type of sleeve	LSZH	
Number of pairs	2x4	4
Assembly	Pairs	
Diameter over insulation (mm)	1,42 ± 0,03	
Average nominal diameter of the cable (mm)	7,5 ± 0,5 x 15,5 ± 0,5	7,5 ± 0,5
Weight of cable (kg/km)	>109	>53
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 98	0 327 99
Type	F/FTP	
Maximum linear resistance (ohm/km)	77 *	76 *
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 98/99
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 Dca s2d2a1
Also compliant with Eca

9. STANDARDS AND APPROVALS

Cat 6A, 500 MHz
Electrical performances and characteristics :
- EN 50173-1
- EN 50288-10-1
- ISO/IEC 11801 (ed. 2.2)
- IEC 61156-5
IEEE 802.3bt : PoE++