

Cat.6 LSZH RJ45/RJ45 cords

Catalogue numbers: 0 515 23/24/25



1. USE

Cat.6A RJ 45/RJ 45 cords for S/FTP zone distribution box.

For direct connection by male RJ45 plug to the zone distribution box and RJ45 socket with copper feedthrough to provide:

- Safe connection
- Quick, reliable connection

Yellow RAL 1018



2. RANGE

Cat. Nos.	Length (m)	Type	Type of sleeve
0 515 23	8	S/FTP	LSZH
0 515 24	15		
0 515 25	20		

3. CORD MARKINGS

- LEGRAND
- Catalogue number
- Gauge
- Type
- Impedance
- Type of sleeve
- Category

4. PERFORMANCE AT 500 MHZ

a/ Performance of cords only:

Standards IEC 61935-2 - Ed. 3.0
 ISO/IEC 11801

Length (m)	Minimum NEXT (dB)	Return Loss (dB)
8	31.5	9.5
15	31.9	
20	32.1	

b/ Performance of cords in system:

Maximum recommended lengths to ensure optimum performance of the system, using a copper feedthrough and/or RJ45 sockets:

	Length associated with the cord lengths (m)		Links
	Cords	Cables	
Cat. 6A	8	70	78
	15	60	75
	20	55	75

Performance in the system at 500 MHz (standard 11801 PL3 Class E _a)	
Attenuation (dB)	42.1
Minimum NEXT (dB)	27.9
PS NEXT (dB)	24.8
ACR-F (dB)	10.2
PS ACR-F (dB)	7.2
Return Loss (dB)	8

5. TECHNICAL AND MECHANICAL CHARACTERISTICS

Type	S/FTP
Type of sleeve	LSZH
Number of pairs	4
Assembly	Pairs
Diameter over insulation (mm)	1.02
Cable diameter (mm)	5.7 ± 0.2
AWG gauge	27
Min. bending radius when laying (mm)	24
Tensile strength of the cord	≥ 50N
Number of twists	500
Number of insertions	750

6. ELECTRICAL CHARACTERISTICS AT 20°C

Loop resistance	< 2 Ω
Contact resistance	< 20 mΩ
Total resistance of the cord	< 5 Ω
Resistance per 100 m of cable with cords	< 14 Ω
DC dielectric strength	1 KV/1 min
Characteristic impedance from 1 to 500 MHz	100 Ω ± 25

7. ENVIRONMENTAL CHARACTERISTICS

Storage and transport temperature: 0 to + 50°C
 Operating temperature: – 20 to + 60°C
 Fire resistance: IEC 60332-1, UL VW-1

8. STANDARDS AND APPROVALS

ANSI/TIA 568-C.2
 EN 50173
 ISO/IEC 60603-7
 ISO/IEC 11801