

Cat. 6 LSOH cords

Catalogue numbers: 0 515 10/11/12/13/14/15



1. USE

Cords for VDI transmission networks.
 Straight RJ45 - RJ45 (cable with multicore cords).
 Blue RAL 5015.



2. RANGE

Cat. Nos.	Length (m)	Type	Type of sleeve
0 515 10	8	U/UTP	LSOH
0 515 11	15		
0 515 02	20		
0 515 13	8	F/UTP	
0 515 14	15		
0 515 15	20		

3. CORD MARKINGS

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

4. PERFORMANCE AT 250 MHZ (on site tester)

a/ Performance of cords only:

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

Length (m)	Minimum NEXT (dB)	Return Loss (dB)
7.5 *	37.7	14
15	37.5	
20	37.6	

* 7.5: test length for 8 m cord.

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. 6	8	70	78
	15	60	75
	20	55	75

System performance at 250 MHz (standard EIA/TIA 568-C-2)	
Attenuation (dB)	31.1
Minimum NEXT (dB)	35.3
PS NEXT (dB)	32.7
ACR-F (dB)	16.2
PS ACR-F (dB)	13.2
Return Loss (dB)	10

5. TECHNICAL AND MECHANICAL FEATURES

Type	U/UTP	F/UTP
Type of sleeve	LSOH	
Number of pairs	4	
Assembly	Pairs	
Diameter over insulation (mm)	0.97	0.9
Cable diameter (mm)	6	5.9 ± 0.2
AWG gauge	24	26
Min. bending radius when laying (mm)	24	24
Tensile strength of the cord	≥ 50 N	≥ 50 N
Number of twists	500	500
Number of insertions	750	750

6. ELECTRICAL FEATURES 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 250 MHz	100 Ω ± 22

7. ENVIRONMENTAL FEATURES

Storage and transport temperature: 0 to + 50°C

Usage temperature: – 20 to + 60°C

Fire resistance: IEC 60332-1, UL VW-1

8. STANDARDS AND APPROVALS

ANSI EIA/TIA 568-C.2

EN 50173

ISO/IEC 60603-7

ISO/IEC 11801