

Cat. 5e LSOH cords

Catalogue numbers: 0 515 00/01/02/03/04/05



1. USE

Cords for VDI transmission networks.  
Cords wired according to method T568B.  
Straight RJ45 - RJ45 (cable with multicore cords).  
Grey RAL 7035.



Compatible remote powering "PoE" up to 100w (IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt) when installed according to standards ISO/IEC 14763-2 (final draft) and/or and EN 50174-2:2018

2. RANGE

Cat. Nos.	Length (m)	Type	Type of sleeve
0 515 00	8	U/UTP	LSOH
0 515 01	15		
0 515 02	20		
0 515 03	8	F/UTP	
0 515 04	15		
0 515 05	20		

3. CORD MARKINGS

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

4. PERFORMANCE AT 100 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 *	36.8	18
15	36	
20	35.8	

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. 5e	8	75	83
	15	65	80
	20	60	80

System performance at 100 MHz (standard EIA/TIA 568-C-2)	
Attenuation (dB)	21
Minimum NEXT (dB)	32.3
PS NEXT (dB)	29.3
ACR-F (dB)	18.6
PS ACR-F (dB)	15.6
Return Loss (dB)	12

## 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	1.04 ± 0.02
Cable diameter (mm)	5.5	6.5
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 100 MHz	100 Ω ± 15

## 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

ISO/IEC 11801 series

ANSI/TIA-568 series

EN 50173 series

ISO/IEC 60603-7

IEEE 802.3bt : "PoE++"