

Cat. 5e LSOH cords

Catalogue numbers: 0 517 90/91/92/93/94/95



1. USE

Cords for VDI transmission networks.
RJ45 plug/wire (single-core cable).
Grey RAL 7035.



2. RANGE

Cat. Nos.	Length (m)	Type	Type of sleeve
0 517 90	8	U/UTP	LSOH
0 517 91	15		
0 517 92	20		
0 517 93	8	F/UTP	
0 517 94	15		
0 517 95	20		

3. CORD MARKINGS

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

4. PERFORMANCE AT 100 MHZ

Performance of cords in system (on site tester)
Maximum recommended lengths to ensure optimum performance of the system, using RJ45 sockets:

	Length associated with the cord lengths (m)		Links
	Cords	Cables	
Cat. 5e	7.5 *	75	83
	15	65	80
	20	60	80

* 7.5: test length for 8 m cord

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)	0.91	1.06
Cable diameter (mm)	5.5	6.5
AWG gauge	24	24
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

ANSI EIA/TIA 568-C.2

EN 50173

ISO/IEC 60603-7

ISO/IEC 11801