

Legrand cabling system LCS³

Performance table

	Supported network protocol	SIZES OF COMPONENTS				LINK SIZES (CHANNEL)			
		Cat. 8 STP	Cat. 6 _A STP	Cat. 6 UTP	Cat. 6 FTP	Class I	Class E _A		Class E
		2000 MHz	500 MHz	250 MHz	250 MHz	2000 MHz	500 MHz	250 MHz	250 MHz
		40 Giga	10 Giga	1 Giga	1 Giga	40 Giga	10 Giga	1 Giga	1 Giga
Attenuation (dB) Signal loss	LCS ³ ISO 11801 edition 3	1.5	0.13 0.45 max	0.06 0.32 max	0.09 0.32 max	32.7	35.4 42.1 max	24.1 28.9 max	25.7 30.7 max
Return loss (dB) Resistance to echo	LCS ³ ISO 11801 edition 3	1.2	17.05 14 min	26.59 20 min	29.8 16 min	8	16.4 8 min	22.1 10 min	38.8 10 min
Next (dB) Resistance to disturbances between pairs ⁽¹⁾	LCS ³ ISO 11801 edition 3	12.9	37.46 37 min	56.93 46 min	51.3 46 min	9.8	38.1 29.2 min	54 35.3 min	53.9 35.3 min



Performance stability and long-lasting product capabilities guaranteed for a POE signal up to 100 W

Compliance with LCS³ system standards and approvals

The LCS³ system and its components (de-embedded) comply with the current standards:

- EIA/TIA 568 B2.10
- EN 50173-1 and EN 50173-2
- ISO/IEC 11801 edition 3

The LCS³ system supports 10 G applications Base T up to 100 m in a transmission channel in compliance with ISO/IEC 11801 edition 3.0 and EIA/TIA 568 C2-1 standards

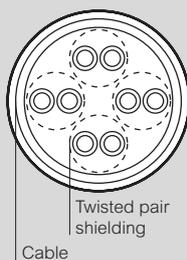
The class I link of the LCS³ system is also compliant with ISO/IEC 11801 edition 3.0 and EIA/TIA 568 C2-1 standards. LCS³ systems are certified by the independent lab 3P, a point of reference for the sector



New denominations of LAN cables (according to ISO 11801-2)

They indicate: "Type of cable shielding" / "type of twisted pair shielding" followed by TP (twisted pairs)

Cable type		Cable shielding	Twisted pair shielding
old denomination	new denomination		
SSTP	S/FTP	S: screen consisting of a copper braid	F: screen consisting of alu/polyester ribbon U: no screen
SFTP	SF/UTP	SF: ribbon + braid association	F: screen consisting of alu/polyester ribbon U: no screen
STP	U/FTP	U: no screen	F: screen consisting of alu/polyester ribbon U: no screen
FTP	F/FTP	F: screen consisting of alu/polyester ribbon	F: screen consisting of alu/polyester ribbon U: no screen
FTP	F/UTP	F: screen consisting of alu/polyester ribbon	U: no screen
UTP	U/UTP	U: no screen	U: no screen



Main characteristics of LCS³ systems

	LCS ³ 8	LCS ³ 6 _A	LCS ³ 6	LCS ³ 5e
Frequency	2000 MHz	500 MHz	250 MHz	100 MHz
Delivery	40 Gbit/s	10 Gbit/s	1 Gbit/s	1 Gbit/s
Wiring	Copper	Copper	FO	Copper
Connectors	RJ 45	RJ 45	SC-LC...	RJ 45
Max. cable length	30 m	100 m	variable	100 m

Maintenance performance



Legrand guarantees the long-term performance of the LCS³ system by providing a 25-year performance guarantee



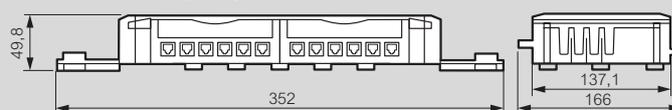
Performance in case of installation with zone distribution box (consolidation point)

Maximum recommended lengths for the connections, in order to guarantee system performance when using copper feedthrough RJ 45 sockets and/or RJ 45 sockets

	Associated length (m)		Connections
	Cords	Cables	
Cat. 6 _A	8	70	78
	15	60	75
	20	55	75
Cat. 6	8	70	78
	15	60	75
	20	55	75
Cat. 5e	8	75	83
	15	65	80
	20	60	80

The use of cables as short as possible is recommended, in order to increase flexibility as far as cord lengths in case of reconfiguration

Dimensions (mm)



The Innoval training center gives the possibility of obtaining LCS³ approval at legrand.com



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