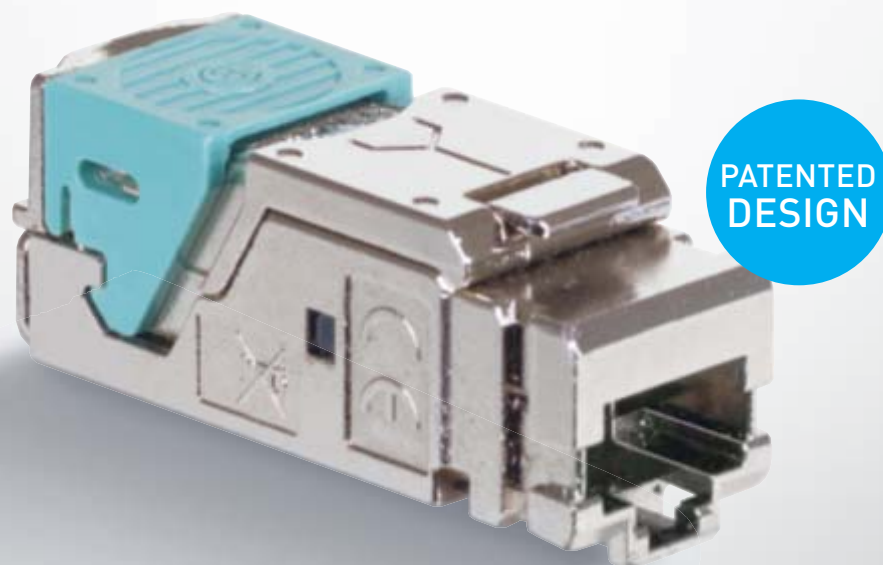


COPPER SYSTEM

# Optimum performance with Cat. 8



## THE NEW toolless Cat. 8 STP CONNECTORS

with transmission speed (bit rate) from 25 Gbps to 40 Gbps, are integral to the performance of the new LCS<sup>3</sup> system.

- In accordance with ISO/IEC 11801 standard - third edition
- Tested up to 2500 connection/disconnection cycles
- A perfect connection in just a few seconds




**To maximise performance, combine the Legrand Cat. 8 connector together with the Legrand Cat. 8 cable supporting up to 40 Gbps over a single cable.**

The Cat. 8 cable is terminated with an improved dedicated RJ45 connector which can support future performance.

The performance is 4 times better than that of a Cat. 6A cable with up to 2000 MHz bandwidth.

- Double screening to avoid interference and loss of data
- Dedicated to higher capacity in data centers and equipment rooms
- Compliant with ISO/IEC 11801 standard - third edition

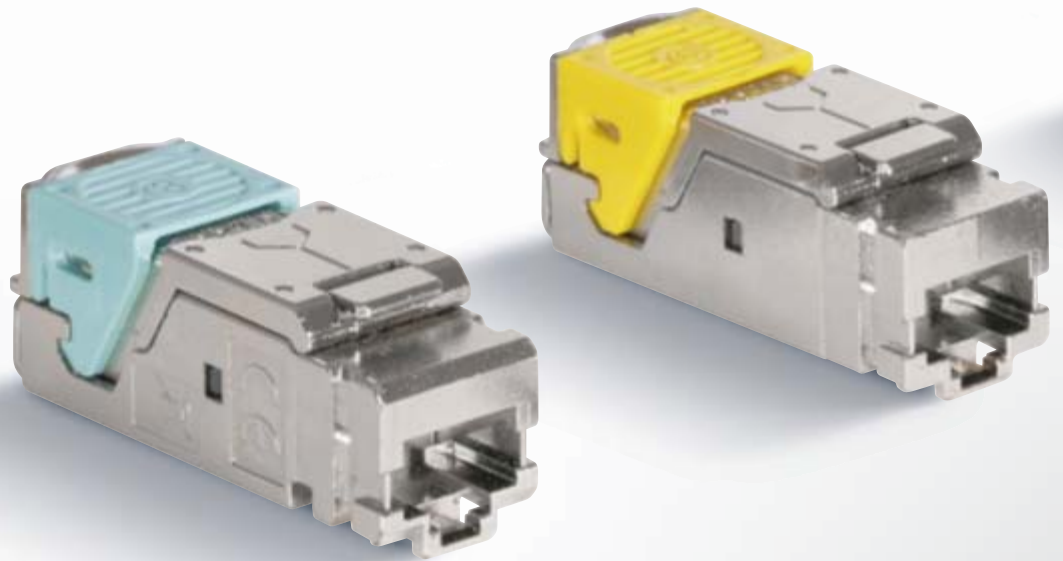
## Legrand cable solutions

	Supported network protocol	COMPONENT SIZES				LINK SIZES (CHANNEL)			
		Cat. 8 STP	Cat. 6A STP	Cat. 6 UTP	Cat. 6 FTP	Class I	Class E <sub>A</sub>		Class E
		2000 MHz	500 MHz	250 MHz	250 MHz	2000 MHz	500 MHz	250 MHz	250 MHz
 Attenuation (dB) Signal loss	LCS <sup>3</sup> 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 29.9 max	25.7 30.7 max
 Return loss (dB) Resistance to echo	LCS <sup>3</sup> ISO 11801 Edition 3	12	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 disturbance between pairs <sup>(1)</sup>	LCS <sup>3</sup> 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

	LCS <sup>3</sup> 8	LCS <sup>2</sup> 6 <sub>A</sub>		LCS <sup>2</sup> 6		LCS <sup>2</sup> 5 <sub>e</sub>
FREQUENCY	2000 MHz	500 MHz		250 MHz		100 MHz
DELIVERY	40 Gbps	10 Gbps		1 Gbps		1 Gbps
WIRING	Copper	Copper	F0	Copper	F0	Copper
CONNECTORS	RJ45	RJ45	SC-LC...	RJ45	SC-LC...	RJ45
MAX. CABLE LENGTH	30 m	100 m	variable	100 m	variable	100 m

## COPPER SYSTEM

All the  
**LCS<sup>3</sup>** connectors  
are PoE+ certified  
and ready for PoE++



Using PoE technology, devices such as Wi-Fi access points, cameras, etc. can be supplied with power by the Ethernet data cable. The cable combines data and power to supply all the PoE peripherals. Depending on the power available, there are three levels of PoE:

- PoE compliant with IEEE 802.3af -2003
- PoE+ compliant with IEEE 802.3at -2007
- PoE++ compliant with IEEE 802.3bt -2018



Due to the high power in PoE++ the choice of a high-quality connector is essential. While disconnected, Legrand's high-quality connectors prevent damage to the contacts due to the arc generated.



## PoE++ 802.3bt

Trade name	IEEE standards	Voltage	Current drawn
PoE	802.3af-2003	44-57 V	350 mA
PoE+	802.3at-2009	50-57 V	600 mA
PoE++	pr 802.3bt[*]	50-57 V	600 mA

Trade name	Power injector	Available power	Number of pairs for power supply	Minimum cable category
PoE	15.4 W	12.95 W	2	Cat. 3
PoE+	30 W	25.5 W	2	Cat. 5e
PoE++	100 W	70 W (min)	4	Cat. 5e

## FIBRE OPTIC SYSTEM

# Legrand high-speed solution MTP system

### High-speed solution

With data centers, increased bandwidth has become a priority requirement. The IEEE has therefore introduced the 802.3ba standard for internet connections at 40 Gbps and 100 Gbps and beyond. To answer this need Legrand has introduced the MTP (Multiple-Fibre Push-On/Pull-Off compatible MPO) fibre solution to the catalogue. It guarantees speed, resistance, high performance and high density.

