

RJ 45 Cat. 6 cords for zone distribution box

Cat. No(s): 0 515 10/11/12/13/14/15
 Configure To Order (CTO) range



1. USE

Cords for high speed transmission networks.
 Straight RJ45 - RJ45.
 The cord is snagless : it has a strain-relief boot to protect the connector's lock from being snapped off easily.
 Compatible with a "PoE" remote power supply up to 90W (IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt) when installed according to standards ISO/IEC 14763-2:2019 and/or and EN 50174-2:2018

2. RANGE

Type	Type of sleeve	Colour	RAL	Length (m)	Cat. Nos.
U/UTP	LSZH	Blue	5015	8	0 515 10
		Blue	5015	15	0 515 11
		Blue	5015	20	0 515 12
F/UTP		Blue	5015	8	0 515 13
		Blue	5015	15	0 515 14
		Blue	5015	20	0 515 15

Configurations of above table are also available on-demand in the following colors.

Yellow	Red	Green	Grey	Black	White
RAL 1018	RAL 3020	RAL 6026	RAL 7035	RAL 9005	RAL 9003

For other lengths (from 5,5m to 20m by 0,5m step), cable types, sleeves and colours, please contact us.

3. MARKINGS

Marking on products:

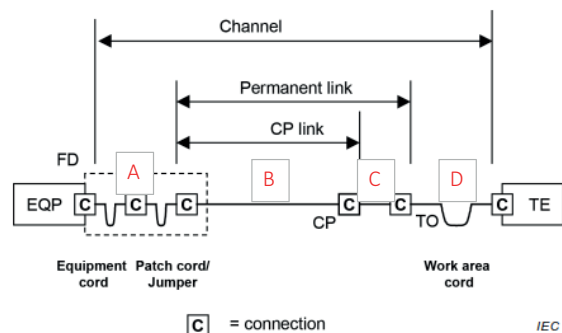
- LEGRAND
- Catalogue number
- Gauge
- Type
- Impedance
- Category

4. PERFORMANCE

4.1 NORMATIVES PERFORMANCE AT 20°C:

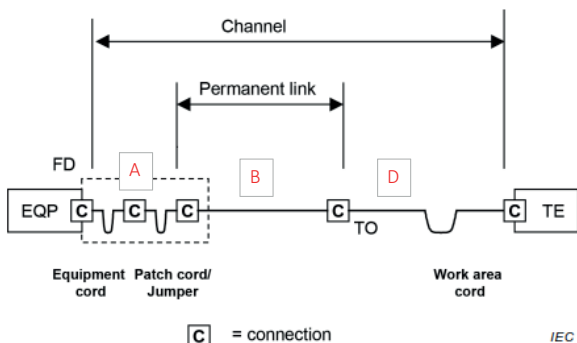
The following tables show the maximum distances allowed depending on the configurations.
 Both cross connect and interconnect are allowed.

a) Use of the cord in a channel with a Consolidation Point



CP Cord (C)	Maximum CP link (B)	TR Cord(s) (A)	Work Area Cord (D)	Total Channel
8 m	74 m	5 m	5 m	92 m
15 m	63 m	5 m	5 m	88 m
20 m	56 m	5 m	5 m	86 m

b) Use of the cord in a channel with a MUTOA



MUTOA/W.A. Cord (D)	Maximum PL (B)	TR Cord(s) (A)	Total Channel
8 m	82 m	5 m	95 m
15 m	72 m	5 m	92 m
20 m	64 m	5 m	89 m

4.2 LEGRAND POE FOR RP3 COMPLIANCE

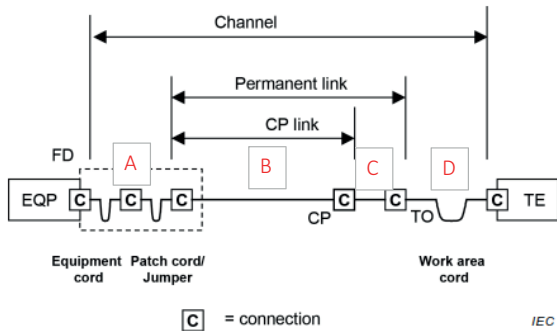
For PoE compliant cabling of Type RP3 according to ISO/IEC 14763 and EN 50174-2, follow the LCS³ PoE guidelines and the maximum distances in the 2 options below:

4.2.1 Legrand PoE compliance for all configurations (Version 3 in the LCS³ PoE Guidelines).

In order to allow all standard compliant configurations, then the distance limits shown below should be followed.

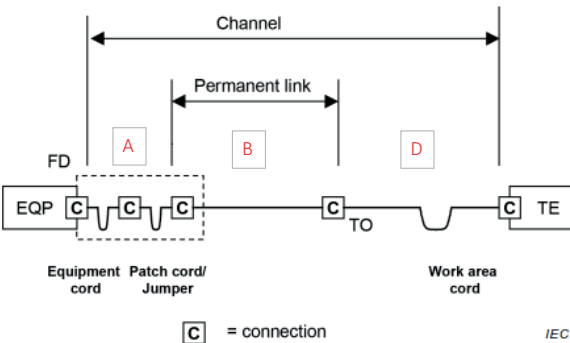
Both cross connect and interconnect are allowed.

a) Use of the cord in a channel with a Consolidation Point



	CP Cord (C)	Maximum CP link (B)	TR Cord(s) (A)	Work Area Cord (D)	Total Channel
Shielded Systems	8 m	69 m	5 m	5 m	87 m
	15 m	59 m	5 m	5 m	84 m
	20 m	51 m	5 m	5 m	81 m
Un-shielded Systems	8 m	65 m	5 m	5 m	83 m
	15 m	54 m	5 m	5 m	79 m
	20 m	47 m	5 m	5 m	77 m

b) Use of the cord in a channel with a MUTOA



	CP Cord (C)	Maximum PL (B)	TR Cord(s) (A)	Total Channel
Shielded Systems	8 m	78 m	5 m	91 m
	15 m	67 m	5 m	87 m
	20 m	60 m	5 m	85 m
Un-shielded Systems	8 m	74 m	5 m	87 m
	15 m	63 m	5 m	83 m
	20 m	56 m	5 m	81 m

4.2.2 Legrand PoE compliance for optimized distance (Version 2 in the LCS³ PoE Guidelines)

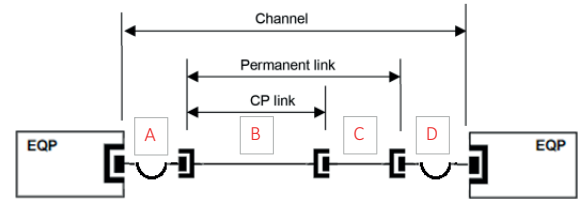
If the objective is to optimize the channel length, then the distance limits below can be used.

Conditions:

Only interconnect is allowed.

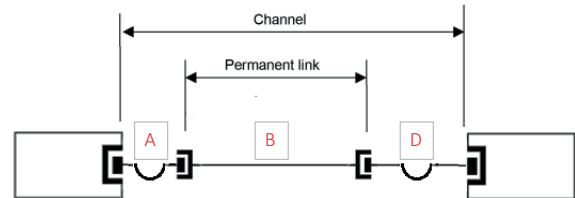
The equipment cord is maximum 2m.

a) Use of the cord in a channel with a Consolidation Point



	CP Cord (C)	Maximum CP link (B)	Equipment Cord (A)	Work Area Cord (D)	Total Channel
Shielded Systems	8 m	75 m	2 m	5 m	90 m
	15 m	64 m	2 m	5 m	86 m
	20 m	57 m	2 m	5 m	84 m
Un-shielded Systems	8 m	70 m	2 m	5 m	85 m
	15 m	60 m	2 m	5 m	82 m
	20 m	52 m	2 m	5 m	79 m

b) Use of the cord in a channel with a MUTOA



	CP Cord (C)	Maximum PL (B)	Equipment Cord (A)	Total Channel
Shielded Systems	8 m	83 m	2 m	93 m
	15 m	73 m	2 m	90 m
	20 m	65 m	2 m	87 m
Unshielded Systems	8 m	79 m	2 m	89 m
	15 m	69 m	2 m	86 m
	20 m	61 m	2 m	83 m

For PoE standard installations non-compliant with LCS³ PoE guidelines, contact Legrand technical support to obtain adjusted distances according to temperature.

5. TECHNICAL AND MECHANICAL FEATURES

Type	U/UTP	F/UTP
Type of sleeve	PVC	
Number of pairs	4	
Assembly	Pairs	
Cable type	Cable with stranded wire	
Diameter over insulation (mm)	0.97±0.05	0.9±0.05
Cable diameter (mm)	6±0.2	5.9±0.2
AWG gauge	24	26
Min. bending radius when laying (mm)	24	24
Tensile strength of the cord	≥50 N	
Number of twists	500	
Number of insertions	2500	
Wiring method	T568B	

6. ELECTRICAL FEATURES AT 20°C

Loop resistance	< 2Ω
Contact resistance	< 20 mΩ
Total resistance of the cord	< 5Ω
Resistance per 100m of cable with cords	< 14Ω
DC dielectric strength	1 kV/1 min
Characteristic impedance from 1 to 250 MHz	100Ω ± 15

7. ENVIRONMENTAL FEATURES

LSZH cable sheath compliant with :

Smoke density: Series IEC 61034 including IEC 61034-2, EN 61034-2

Toxicity of fire effluent: Series IEC 60754 including IEC 60754-2, EN 60754-2

Fire resistance: Series IEC 60332-1 including IEC 60332-1-2

Storage and transport temperature: -20 to +75°C

Operating temperature: -20 to +60°C

Installation temperature : 0 to +60°C

8. STANDARDS AND APPROVALS**Cords are compliant to the following series**

ISO/IEC 11801 series : International standard for generic cabling for customer premises

ANSI/TIA 568 series : North American standard for generic cabling for customer premises

EN 50173 series : European standard for generic cabling for customer premises

Components of the cords are compliant to the following series

IEC 61156 : International standard for twisted pair cable specifications

IEC 60603-7 : International standard for connector specifications

Cords are compliant to requirements for the following remote powering applications

IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt : "Power over Ethernet", Types 1 to 4, up to 90W.