Litech®

Category 6 Solutions

Litech® Unshielded Cable ++
Litech® Patchcord ++
Litech® Modular Jacks ++
Litech® Patch Panels ++
Litech® Face Plate & Floor Outlet ++

Category 6 Unshielded Cable

The Litech Category 6 Cables is a superior product delivering the best network performance.The cable in constructed with four pair solid copper conductor and with L CMR rated. The category 6 Series has a 25 years warranty and system performance guarantee when used in conjuction with complete Litech Category 6 Solutions and installed by Litech Certified Installer.

CONSTRUCTION

Conductor	Solid Bare Copper
AWG	23
Conductor Diameter (+0.1mm)	0.574
Insulation	PE
Insulation Diameter (±0.03mm)	1.04
Filler	PE Polyester
Drain Wire	Tinned Copper
AL Foil Jacket	PVC
Outer Diameter (±0.2mm)	6.80





PRODUCT FEATURES

- UL vertified to TIA/EIA 568A & ISO/IEC 11801
- Flammability Grade : CMX, CM, MP, CMR, MPR
- Rated Temperature : 60ºC
- Suitable for horizontal cabling
- 305m (1000ft) roll
- Reelex Pull-Out Box Packing Available

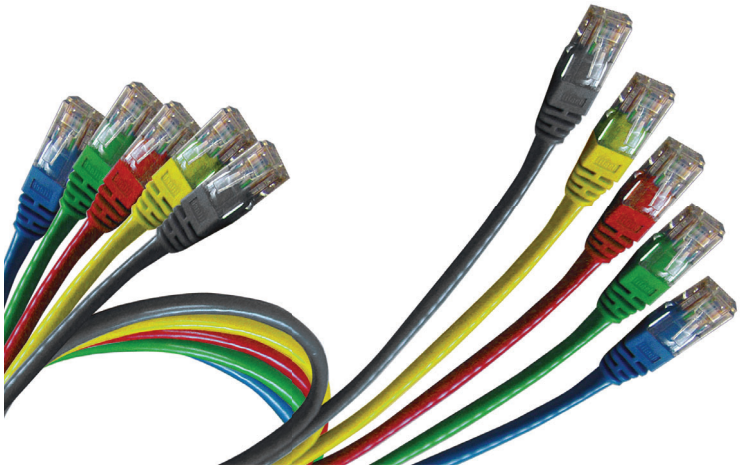
ORDERING INFORMATION

Part No.	Description
LTSS-CU6-01	UTP Cat 6 - 4 pair
LTSS-FT6-01	FTP Cat 6 - 4 pair
LTSS-ST6-01	S-FTP Cat 6 - 4 pair

TRANSMISSION PERFORMANCE

Frequency	IL (Attenuation) dB/100m	NEXT (dB)	PSNEXT (dB)	RL (dB)	ELFEXT (dB)	PSELFEXT (dB)	ACR (dB)	PSACR (dB)
0.772	1.8	76.0	74.0	19.4	70.0	67.0	74.2	72.2
1	2.0	74.3	72.3	20.0	67.8	64.8	72.3	70.3
4	3.8	65.3	63.3	23.0	55.8	52.8	61.5	59.5
8	5.3	60.8	58.8	24.5	49.7	46.7	55.4	53.4
10	6.0	59.3	57.3	25.0	47.8	44.8	53.3	51.3
16	7.6	56.2	54.2	25.0	43.7	40.7	48.7	46.7
20	8.5	54.8	52.8	25.0	41.8	38.8	46.3	44.3
25	9.5	53.3	51.3	24.3	39.8	36.8	43.8	41.8
31.25	10.7	51.9	49.9	23.6	37.9	34.9	41.2	39.2
62.5	15.4	47.4	45.4	21.5	31.9	28.9	32.0	30.0
100	19.8	44.3	42.3	20.1	27.8	24.8	24.5	22.5
155	25.2	41.4	39.4	18.8	24.0	21.0	16.3	14.3
200	29.0	39.8	37.8	18.0	21.8	18.8	10.8	8.8
250	32.8	38.3	36.3	17.3	19.8	16.8	5.5	3.5
300	36.4	37.1	35.1	16.8	18.3	15.3	0.7	-1.3
350	39.8	36.1	34.1	16.3	16.9	13.9	-3.6	-5.6
400	43.0	35.3	33.3	15.9	15.8	12.8	-7.7	-9.7
450	46.0	34.5	32.5	15.5	14.7	11.7	-11.5	-13.5
500	48.9	33.8	31.8	15.2	13.8	10.8	-15.1	-17.1
550	51.8	33.2	31.2	14.9	13.0	10.0	-18.6	-20.6
600	54.5	32.6	30.6	14.7	12.2	9.2	-21.9	-23.9

Category 6 Patch Cord



Litech Category 6 Patchcord is a superior product provide best network performance when used in conjunction with other Litech Category 6 products. The Patch Cord is constructed of high grade cable and quality RJ45 plugs, and is designed to operate up to 300MHz for Category 6 environment. Patch cords are available in white, grey, yellow, red and blue, with matching colour boots for better circuit identification in the cable rack.

PRODUCT FEATURES

- Complied to ISO/IEC 11801 Edition 2 2002 and ANSI/TIA/EIA-568-B. Standards
- UL CMR fire rated jacketing
- PE insulation on conductors
- PVC outer jacket material, LSZH jacket available upon request
- Customized colours are available

ORDERING INFORMATION	
Part No.	**Description**
UTP Cat 6 Patchord	LTSS - PCC6 - UXX - YY
FTP Cat 6 Patchord	LTSS - PCC6 - FXX - YY
XX - Colour Boots	White (W1), Grey (G2), Red (R3), Yellow (Y4), Green (E5), Blue (B6), Black (K7)
YY - Cable Length	0.5m, 1.0m, 1.5m, 2.0m, 3.0m, 5.0m

MECHANICAL CHARACTERISTICS Cable	
Wire Gauge	23 AWG with PE insulation
Pair Count	4 pair individually colour coded with PVC jacket
Wiring Scheme	568 A/B
Durability	1000 mating cycles
RJ45 Plug	Polycarbonate, UL 94V-0
Contact Material	Phosphor bronze with 50 micro-inches gold over 100 micro-inches nickel

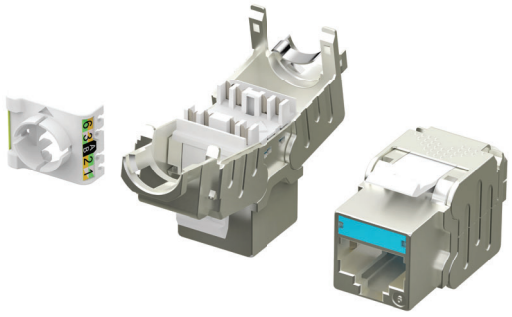
ELECTRICAL	
Dielectric Strength	1000 V RMS at 60 Hz for 1 minute
Voltage Rating	150 VAC maximum
Current Rating	1.5 A maximum
Insulation	500mΩ minimum
Contact Resistance	10mΩ maximum

TRANSMISSION SPECIFICATIONS		
Parameter	**Value (-dB)**	**Cat 6 (-dB)**
NEXT	55.1	≥54.0
Power Sum NEXT	52.0	≥54.0
FEXT	49.8	≥43.1
Power Sum FEXT	46.9	≥40.1
Attenuation	0.1	≤0.2
Return Loss	27.0	≥23.0

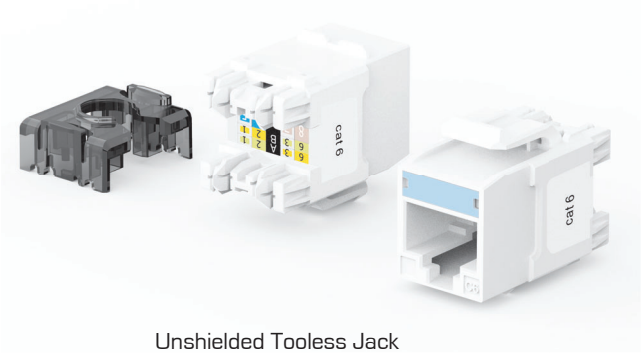
Category 6 Modular Jacks



Unshielded Modular Jack



Unshielded Modular Jack (90°)



Unshielded Tooless Jack

Litech range of Category 6 products are design with superior performance and able to match any standard work station outlets. These modular jacks are colour coded for both 568A and 568B standards and are the perfect solution to your data communications needs.

MECHANICAL CHARACTERISTICS Modular Connector	
RJ45 8-Pin Connector	FCC part 68, Subpart F and IEC-60603-7 compliant
Durability	1000 mating cycles
Material	Phosphor Bronze with 50 micro inches of gold over 100 micro-inches nickel plating

CONSTRUCTION	
Dielectric Strength	1,000V RMS at 60Hz for 1 minute
Current Rating	1.5Amp maximum
Insulation Resistance	200MΩ minimum
Contact Resistance	1mΩ per contact
Temperature Range	-40˚C to +70˚C
Transmission Performance	Exceeds ISO/IEC 11801 Class E AS/NZS 3080:2003 Class E

IDC Connector	
IDC Connector	Insulation slicing of 22 to 24 AWG (0.64 to 0.41mm)
Insulation Diameter (Wire)	0.70 - 1.40mm
Durability	10 insertions of any combination of wire gauge - two wires per slot
Connector Material	Phosphor Bronze with nickel plating

IDC Body & Cover Material Fire-Retardant, UL 94V-O, Plastic

PRODUCT FEATURES

- Fully compliant to ISO/IEC 11801 Edition 2 2002 and ANSI/TIA/EIA-568-B. Series Connecting Hardware Standards
- Backward compatible with Category 5 and 5e products
- UL 94V-O rated
- Accepts solid 22-24 AWG diameter conductor

ORDERING INFORMATION Part No.	Description
Cat 6 Modular Jack	LTSS - MJC6 - XX

Category 6 Patch Panels



Unshielded Tooless Patch Panel 24 Port



Unshielded Patch Panels 24 Port



Shielded Patch Panels 24 Port



Shielded Patch Panels 48 Port

ELECTRICAL CHARACTERISTICS

Dielectric Strength	1,000V RMS at 60Hz for 1 minute
Current Rating	1.5Amp maximum
Insulation Resistance	200MΩ minimum
Contact Resistance	1mΩ per contact
Temperature Range	-40˚C to +70˚C
Transmission Performance	Exceeds ISO/IEC 11801 Class E
	AS/NZS 3080:2003 Class E

IDC Connector

IDC Connector	Insulation slicing of 22 to 24 AWG
	(0.64 to 0.41mm)
Insulation Diameter (Wire)	0.70 - 1.40mm
Durability	10 insertions of any combination
	of wire gauge - two wires per slot
Connector Material	Phosphor Bronze with nickel plating

IDC Body & Cover Material Fire-Retardant, UL 94V-0, Plastic

MECHANICAL CHARACTERISTICS
Modular Connector

RJ45 8-Pin Connector	FCC part 68, Subpart F and IEC
	60603-7 compliant
Durability	1000 mating cycles
Material	Phosphor Bronze with 50 micro-
	inches of gold over 100 micro-
	inches nickel plating

Litech range of Category 6 products are design with superior performance and able to match any standard data products.The Category 6 patch panel features individual plug in Category 6 keystone modular jacks on standard 19" frame for improved performance conistency. These modular jacks are colour coded for both 568A and 568B standards. Coupler with other Litech Category 6 products, is the perfect solution to your data communications needs.

PRODUCT FEATURES

- Individual plug in modules feature eliminates PCB failure and Improved performance consistency
- additional rear cable management and tie down bracket
- universal colour-coding for 568A and 568B standards
- standard 19" ETSI mounting
- IDC termination
- complied to ISO/IEC 11801 Edition 2 2002 and ANSI/TIA/EIA-568-B. Series Connecting Hardware Standards.

ORDERING INFORMATION

Part No.	Description
LTSS-PP6-U24-01	Category 6 - Shielded Patch Panels 24 Port
LTSS-PP6-U48-01	Category 6 - Shielded Patch Panels 48 Port
LTSS-PP6-S24-01	Category 6 - Unshielded Patch Panels 24 Port
LTSS-PP6-S48-01	Category 6 - Unshielded Patch Panels 48 Port
LTSS-PCC6S-U24TL	Category 6 - Unshielded Tooless Patch Panel 24 Port

Category 6
24 Port Patch Panel
with shutter

ELECTRICAL CHARACTERISTICS

Dielectric Strength	1,000V RMS at 60Hz for 1 minute
Current Rating	1.5Amp maximum
Insulation Resistance	200MΩ minimum
Contact Resistance	1mΩ per contact
Temperature Range	-40˚C to +70˚C
Transmission Performance	Exceeds ISO/IEC 11801 Class E
	AS/NZS 3080:2003 Class E

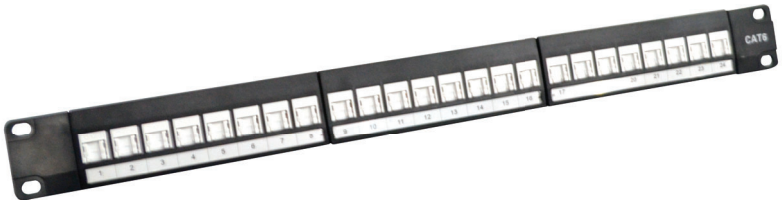
IDC Connector

IDC Connector	Insulation slicing of 22 to 24 AWG
	(0.64 to 0.41mm)
Insulation Diameter (Wire)	0.70 - 1.40mm
Durability	10 insertions of any combination
	of wire gauge - two wires per slot
Connector Material	Phosphor Bronze with nickel plating

IDC Body & Cover Material Fire-Retardant, UL 94V-0, Plastic

MECHANICAL CHARACTERISTICS
Modular Connector

RJ45 8-Pin Connector	FCC part 68, Subpart F and IEC
	60603-7 compliant
Durability	1000 mating cycles
Material	Phosphor Bronze with 50 micro-
	inches of gold over 100 micro-
	inches nickel plating



Litech range of Category 6 products are design with superior performance and able to match any standard data products.The Category 6 patch panel with automatic shutter features individual plug in Category 6 keystone modular jacks on standard 19" frame for improved performance conistency. These modular jacks are colour coded for both 568A and 568B standards. Coupler with other Litech Category 6 products, is the perfect solution to your data communications needs.

PRODUCT FEATURES

- Individual plug in modules feature eliminates PCB failure and Improved performance consistency
- Additional rear cable management and tie down bracket
- Universal colour-coding for 568A and 568B standards
- Standard 19" ETSI mounting
- IDC termination
- Automatic shutter
- Complied to ISO/IEC 11801 Edition 2 2002 and ANSI/TIA/EIA-568-B. Series Connecting Hardware Standards.

ORDERING INFORMATION

Part No.	Description
LTSS - PPC6S - S24	Cat 6 24 Port UTP Patch Panel - Shielded with shutter
LTSS - PCC6S - U24	Cat 6 24 Port UTP Patch Panel - Unshielded with shutter

Category 6
Inline Patch Panels



Litech range of 19" RJ45 Inline Patch Panel are design with superior performance and able to match any standard data products.The inline patch panel features individual plug in keystone modular jacks on standard 19" frame for improved performance consistency. The RJ45 jack to RJ 45 jack design eliminate the needs for timing consuming cable termination and use only standard factory per-terminated patchcords. Coupler with other Litech Category products, is the perfect solution to your data communications needs as well as for FE or GE application for mobile network applications.

PRODUCT FEATURES

- Individual plug in modules feature eliminates PCB failure and Improved performance consistency
- Additional rear cable management and tie down bracket
- RJ45 Jack to RJ45 jack design eliminates needs for cable punching
- Standard 19" ETSI mounting
- Complied to ANSI/TIA-568-B.2-1 channel compliant, FCC part 68.5, subpart F compliant

Frequency (Mhz)	Attenuation (dB)	NEXT (dB)	RL (dB)	ELFEXT (dB)	PSELFEXT (dB)
1	1.2	83.8	25.6	71.6	71.5
4	2.9	82.5	29.0	60.1	59.8
8	4.0	72.3	26.1	54.8	53.7
10	4.5	79.3	29.8	52.8	50.9
16	5.9	67.5	29.3	49.2	46.0
20	6.5	65.7	48.6	47.4	43.5
25	7.4	63.1	34.4	46.0	41.2
31.25	8.3	62.9	34.8	44.7	39.0
62.5	12.0	62	35.2	39.9	37.1
100	15.4	59.1	20.5	39.1	34.0
200	22.8	50.9	20.6	38.3	29.3
250	25.8	46.9	19.0	32.0	29.1

Performance compliant with TIA-568B.2-1

ELECTRICAL CHARACTERISTICS

Insulation resistance	500 MΩ
Dielectric withstanding voltage	1000 V AC
Current rating	1.5Amps
DC resistance	0.1Ω
Contact resistance	20mΩ

PHYSICAL CHARACTERISTICS

Housing	Polycarbonate high-impact
	UL94V-0 thermoplastic
Spring wire	Phosphor Bronze wire,
	ø =0.45mm, Au/PdNi over
	60u" Nickel undercoat
Insertion Life	750 mating cycles with FCC
	compliant RJ-45 plug
Contact force	100 grams with FCC
	compliant RJ-45 plug
Plug retention force	11 lbf min.
Operating Temperature Range	-10 °C to 60°
Humidity	10%~90%RH

ORDERING INFORMATION

Part No.	Description
LTSS - IPC6 - XX	19" RJ45 Inline Patch Panel

Face Plate & Floor Outlet

Litech provides varies types of workstation outlets to suit different countries' standard. All faceplates are in slim and ergo-compact design with smooth and elegant finished surface.

CABLE MANAGEMENT GUIDE



1U Cable Management Guide (Metal Type)



1U Plastic Horizontal Cable Management Panel



1U Plastic Double-Sided Horizontal Cable Management Panel



2U Cable Management Guide (Metal Type)



2U Plastic Horizontal Cable Management Panel



2U Plastic Double-Sided Horizontal Cable Management Panel

ORDERING INFORMATION

Part No.	Description
LTSS-CMG-D01-P	1U Plastic Double-Sided Horizontal Cable Management
LTSS-CMG-D02-P	2U Plastic Double-Sided Horizontal Cable Management
LTSS-CMG-01-M	1U Cable Management Guide (Metal Type)
LTSS-CMG-02-M	2U Cable Management Guide (Metal Type)
LTSS-CMG-D01-P	1U Plastic Horizontal Cable Management Panel
LTSS-CMG-D02-P	2U Plastic Horizontal Cable Management Panel

SURFACE MOUNT BOX

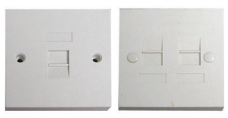




ORDERING INFORMATION

Part No.	Description
LTSS-FPFO-N1	Floor Outlet Single Port
LTSS-FPFO-N2	Floor Outlet Dual Port

RJ45 FACEPLATE



FPA1-01/02



FPBS-01/02



FPS1-01/02



FPCL-01/02



FPAG-01/02



FPAS-01/02/03/04

ORDERING INFORMATION

Part No.	Description
LTSS-FPA1-01	Face Plate Single Port
LTSS-FPA1-02	Face Plate Double Port
LTSS-FPS1-01	Face Plate Single Port (Conceal Hole)
LTSS-FPS1-02	Face Plate Double Port (Conceal Hole)
LTSS-FPCL-01	Face Plate Single Port (CL Type)
LTSS-FPCL-02	Face Plate Double Port (CL Type)
LTSS-FPAG-01	Face Plate Single Port Angled Type
LTSS-FPAG-02	Face Plate Double Port Angled Type
LTSS-FPAS-01	US Style Face Plate Single Port
LTSS-FPAS-02	US Style Face Plate Dual Port
LTSS-FPAS-03	US Style Face Plate Three Port
LTSS-FPAS-04	US Style Face Plate Four Port