# KIMQUANG
## Electrical equipment

**LS** Cable & System

# Simple™
## Structured Cabling System

Twenty-five Years System Warranty
**25**

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# About LS Cable & System

LS spun off from LG in 2003 as a group specializing in the Electrics, Electronics, Energy, and Material.
LS consists of about 40 affiliates including LS Cable & System, LSIS, LS-Nikko Copper, LS Mtron, Gaon Cable, E1 and Yesco.
A leading player in the global cable industry, with over half a century of experience as a manufacturer, providing consolidated expertise in the design and production of premium quality cabling technologies.

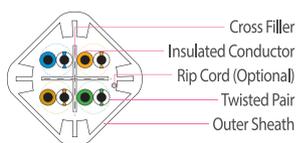# Contents

# Cables

## Category 6A Cable 4 Pair

### Description

- Capable of handling full broadband and baseband
- High flame retardant grade to minimize the risk of fire propagation
- Comply with ANSI/TIA - 568 - C.2 standard

- Horizontal Distribution & Backbone Cabling
- 10/100/1000/10G BASE-T (IEEE 802.3)
- POE ++ (IEEE 802.3 bt draft. Type 3(60W) or Type 4(100W))
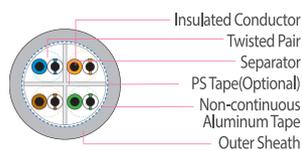
### Features

**Category 6A U/UTP Cable 4Pair Inner Jacket Spacer**

- Inner Jacket Spacer Sheath
- Cable Out Diameter : 8.4mm
- UL Listed & ETL Verified
- 23AWG Solid Copper

Cross Filler
Insulated Conductor
Rip Cord (Optional)
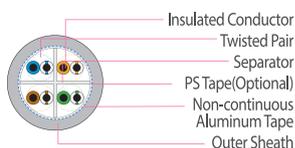Twisted Pair
Outer Sheath

**Category 6A U/UTP Cable 4Pair Segmented Tape Type**

- LS Unique Segmented Tape Type
- Cable Out Diameter : 6.8mm
- UL Listed & ETL Verified
- 23AWG Solid Copper

Insulated Conductor
Twisted Pair
Separator
PS Tape(Optional)
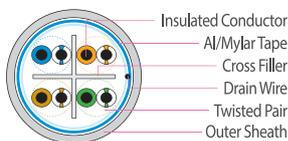Non-continuous Aluminum Tape
Outer Sheath

**Category 6A U/UTP Slim Cable 4Pair Segmented Tape Type**

- LS Unique Segmented Tape Type
- Cable Out Diameter : 5.8mm
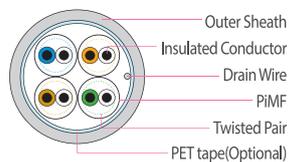- 70m Category 6A Channel Support
- 26AWG Solid Copper

Insulated Conductor
Twisted Pair
Separator
PS Tape(Optional)
Non-continuous Aluminum Tape
Outer Sheath

**Category 6A F/UTP Cable 4Pair Shielded**

- Aluminum Foiled Shield
- Cable Out Diameter : 7.2mm
- UL Listed
- 23AWG Solid Copper

Insulated Conductor
Al/Mylar Tape
Cross Filler
Drain Wire
Twisted Pair
Outer Sheath

**Category 6A U/FTP Cable 4Pair PiMF Shielded**

- PIMF (pair in metal foil)
- Cable Out Diameter : 7.2mm
- Electrical Performance IEC 61156-5
- 23AWG Solid Copper

Outer Sheath
Insulated Conductor
Drain Wire
PiMF
Twisted Pair
PET tape(Optional)

*PIMF : Pair In Metal Foil

### Part Numbers

| Description | | Flame Retardant Grade | | | | |
|---|---|---|---|---|---|---|
| | | CMX | CM | CMR | CMP | LSZH |
| Category 6A U/UTP Cable 4 Pair | Original : 8.4mm | UTP-A-C6G-E1VI-X 0.5X004P/xx | UTP-A-C6G-E1VI-M 0.5X004P/xx | UTP-A-C6G-E1VI-R 0.5X004P/xx | UTP-A-C6G-F1VI-P 0.5X004P/xx | UTP-A-C6G-E1ZI-X 0.5X004P/xx |
| | Next G : 6.8mm | UTP-A-C6G-E1VF-X 0.5X004P/xx | UTP-A-C6G-E1VF-M 0.5X004P/xx | UTP-A-C6G-E1VF-R 0.5X004P/xx | – | UTP-A-C6G-E1ZF-X 0.5X004P/xx |
| | USS : 5.8mm | UTP-A-C6G-E1VL-X 26AWGx004P/xx | UTP-A-C6G-E1VL-M26AWGx004P/xx | UTP-A-C6G-E1VL-R26AWGx004P/xx | – | UTP-A-C6G-E1ZL-X 26AWGx004P/xx |
| Category 6A U/FTP Cable 4 Pair | | USP-A-C6G-E1VN-X 0.5X004P/xx | USP-A-C6G-E1VN-M 0.5X004P/xx | USP-A-C6G-E1VN-R 0.5X004P/xx | – | USP-A-C6G-E1ZN-X 0.5X004P/xx |
| Category 6A F/UTP Cable 4 Pair | | FTP-A-C6G-E1VN-X 0.5X004P/xx | FTP-A-C6G-E1VN-M 0.5X004P/xx | FTP-A-C6G-E1VN-R 0.5X004P/xx | – | FTP-A-C6G-E1ZN-X 0.5X004P/xx |

xx denotes color: WH=White, BL=Blue, GY=Gray, VI=Violet, OR=Orange, RD=Red, GN=Green, YL=Yellow, BK=Black
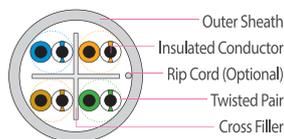
# Category 6+ Cable 4 Pair

Additional +3dB margin of NEXT, ELFEXT in channel performance (compared to standard Cat6 level) is guaranteed by the enhancement of cable and jack even using standard Cat6 patch cord application. Supporting stabilization of communication environment, this solution is suited to high profile application for data center and bank.

## Description

- Capable of handling full broadband and baseband
- High flame retardant grade to minimize the risk of fire propagation
- Comply with ANSI/TIA - 568 - C.2 standard
- LS Reel-In-a-Box packaging, enables easy wire pulling through box opening
- The Crosstalk performance is specified 3dB higher than standard Category 6
- RoHS Compliant
- Horizontal Distribution & Backbone Cabling
- 10/100/1000/10G BASE-T (IEE 802.3)
- POE+ (IEEE 802.3 at Type 2 (34.2W))

## Structure

Category 6+ U/UTP Cable 4 Pair  (3rd party approval : UL, ETL)

Outer Sheath
Insulated Conductor
Rip Cord (Optional)
Twisted Pair
Cross Filler

- Improve +3 db Electrical Margin
- Up to 250Mhz Bandwidth Available
- UL Listed & ETL Verified
- 23AWG Solid Copper

## Part Numbers

| Description | Flame Retardant Grade | | | | |
|---|---|---|---|---|---|
| | CMX | CM | CMR | CMP | LSZH |
| Category 6+ U/UTP Cable 4Pair | UTP-E-C6G-E1VN-X 0.5X004P/xx | UTP-E-C6G-E1VN-M 0.5X004P/xx | UTP-E-C6G-E1VN-R 0.5X004P/xx | UTP-E-C6G-F1VN-P 0.5X004P/xx | UTP-E-C6G-E1ZN-X 0.5X004P/xx |

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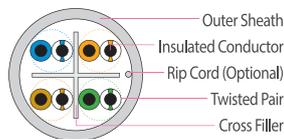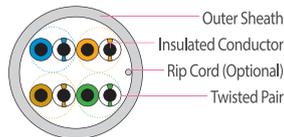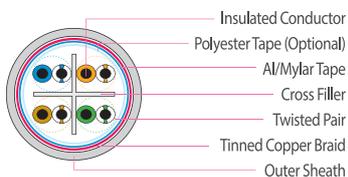
# Category 6 Cable 4 Pair

## Description

- Capable of handling full broadband and baseband
- High flame retardant grade to minimize the risk of fire propagation
- Every Master reel is tested for electrical performance compliance
- Comply with ANSI/TIA - 568 - C.2 standard
- Reelex & Reel in a box is standard and it makes easy wire pulling from box
- RoHS Compliant
- Horizontal Distribution & Backbone Cabling
- 10/100/1000/10G BASE-T (IEE 802.3)
- POE+ (IEEE 802.3 at Type 2 (34.2W))
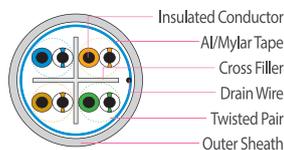
### Category 6 SF/UTP Cable 4Pair Double Shielded

- Block Electrical Interference          - Strengthen Physical Tension
- 23 & 24AWG Solid Copper              - Cable Out Diameter : 7.6mm

Insulated Conductor
Polyester Tape (Optional)
Al/Mylar Tape
Cross Filler
Twisted Pair
Tinned Copper Braid
Outer Sheath

## Structure

Category 6 U/UTP Cable 4Pair

Outer Sheath
Insulated Conductor
Rip Cord (Optional)
Twisted Pair
Cross Filler

[Filler Type]
Conduct Size : 24AWG
O.D : 6.0mm
UL Listed & Verified
CMP-LP(0.5A)(90C)
CPR Verified

Outer Sheath
Insulated Conductor
Rip Cord (Optional)
Twisted Pair

[Non-Filler Type]
Conduct Size : 23AWG
O.D : 5.4mm
UL Listed & Verified
CPR Verified

### Category 6 F/UTP Cable 4Pair Shielded

- Block Electrical Interference          - UL Listed & Verified
- 24AWG Solid Copper                   - Cable Out Diameter : 7.2mm

Insulated Conductor
Al/Mylar Tape
Cross Filler
Drain Wire
Twisted Pair
Outer Sheath

## Part Numbers

| Description | | Flame Retardant Grade | | | | |
|---|---|---|---|---|---|---|
| | | CMX | CM | CMR | CMP | LSZH |
| Category 6 U/UTP Cable 4Pair | Cross Filler | UTP-G-C6G-E1VN-X 0.5X004P/xx | UTP-G-C6G-E1VN-M 0.5X004P/xx | UTP-G-C6G-E1VN-R 0.5X004P/xx | UTP-G-C6G-F1VN-P 0.5X004P/xx | UTP-G-C6G-E1ZN-X 0.5X004P/xx |
| | Non Filler | UTP-G-C6G-E1VX-X 0.5X004P/xx | UTP-G-C6G-E1VX-M 0.5X004P/xx | UTP-G-C6G-E1VX-R 0.5X004P/xx | UTP-G-C6G-F1VX-P 0.5X004P/xx | UTP-G-C6G-E1ZX-X 0.5X004P/xx |
| Category 6 SF/UTP Cable 4Pair | | SFP-G-C6G-E1VN-X 0.5X004P/xx | SFP-G-C6G-E1VN-M 0.5X004P/xx | SFP-G-C6G-E1VN-R 0.5X004P/xx | - | SFP-G-C6G-E1ZN-X 0.5X004P/xx |
| Category 6 F/UTP Cable 4Pair | | FTP-G-C6G-E1VN-X 0.5X004P/xx | FTP-G-C6G-E1VN-M 0.5X004P/xx | FTP-G-C6G-E1VN-R 0.5X004P/xx | - | FTP-G-C6G-E1ZN-X 0.5X004P/xx |

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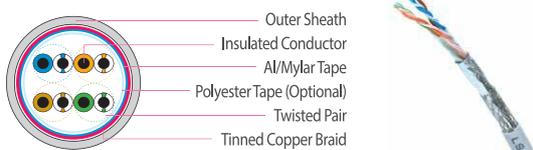
# Category 5e Cable 4 Pair

## Description

- All accepted design for global commercial network installation
- Simplified structured cabling solution preserving long-term network investment
- Comply with ANSI/TIA - 568 - C.2 standard
- RoHS Compliant
- Horizontal Distribution & Backbone Cabling
- 10/100/1000 BASE-T (IEEE 802.3)
- POE (IEEE 802.3af Type 1 (15.4W))

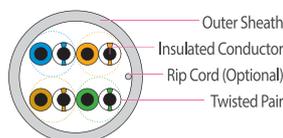### Category 5E SF/UTP Cable 4Pair Screended Foiled Shielded

- Block Electrical Interference
- 24AWG Solid Copper
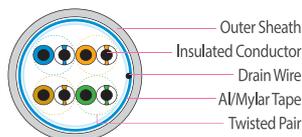- Strengthen Physical Tension
- Cable Out Diameter : 6.5mm

Outer Sheath
Insulated Conductor
Al/Mylar Tape
Polyester Tape (Optional)
Twisted Pair
Tinned Copper Braid

## Structure

### Category 5E U/UTP Cable 4Pair

- 24AWG Solid Copper
- UL Listed & Verified
- Cable Out Diameter : 4.9mm
- CPR Verified

Outer Sheath
Insulated Conductor
Rip Cord (Optional)
Twisted Pair

### Category 5E U/UTP Cable 4Pair

- Block Electrical Interference
- 24AWG Solid Copper
- Cable Out Diameter : 5.9mm
- UL Listed & Verified

Outer Sheath
Insulated Conductor
Drain Wire
Al/Mylar Tape
Twisted Pair

## Part Numbers

| Description | Flame Retardant Grade | | | | |
|---|---|---|---|---|---|
| | CMX | CM | CMR | CMP | LSZH |
| Category 5e U/UTP Cable 4 Pair | UTP-E-C5G-E1VN-X 0.5X004P/xx | UTP-E-C5G-E1VN-M 0.5X004P/xx | UTP-E-C5G-E1VN-R 0.5X004P/xx | UTP-E-C5G-F1VN-P 0.5X004P/xx | UTP-E-C5G-E1ZN-X 0.5X004P/xx |
| Category 5e SF/UTP Cable 4 Pair | SFP-E-C5G-E1VN-X 0.5X004P/xx | SFP-E-C5G-E1VN-M 0.5X004P/xx | SFP-E-C5G-E1VN-R 0.5X004P/xx | - | SFP-E-C5G-E1ZN-X 0.5X004P/xx |
| Category 5e F/UTP Cable 4 Pair | FTP-E-C5G-E1VN-X 0.5X004P/xx | FTP-E-C5G-E1VN-M 0.5X004P/xx | FTP-E-C5G-E1VN-R 0.5X004P/xx | - | FTP-E-C5G-E1ZN-X 0.5X004P/xx |

xx denotes color: WH=White, BL=Blue, GY=Gray, VI=Violet, OR=Orange, RD=Red, GN=Green, YL=Yellow, BK=Black

# Multi-Pair Cables

## Description

- All accepted design for global commercial network installation
- Simplified structured cabling solution preserving long-term network investment
- Comply with ANSI/TIA - 568 - C.2
- RoHS Compliant

## Structure

### Category 5e U/UTP Cable 25 Pair

Outer Sheath
Insulated Conductor
Round Filler
Twisted Pair
Rip Cord (Optional)
Polyester Tape

### Category 3 U/UTP Cable 25~500 Pair

Outer Sheath

25~500 Pair

Rip Cord (Optional)

## Part Numbers

| Description | Flame Retardant Grade | | | |
|---|---|---|---|---|
| | CMX | CM | CMR | LSZH |
| Category 5e U/UTP Cable 25Pair | UTP-E-C5G-E1VN-X 0.5X025P/xx | UTP-E-C5G-E1VN-M 0.5X025P/xx | UTP-E-C5G-E1VN-R 0.5X025P/xx | UTP-E-C5G-E1ZN-X 0.5X025P/xx |
| Category 3 U/UTP Cable 25~500Pair | UTP-G-C3G-S1VN-X 0.5XyyyP/xx | UTP-G-C3G-S1VN-M 0.5XyyyP/xx | UTP-G-C3G-S1VN-R 0.5XyyyP/xx | UTP-G-C3G-S1ZN-X 0.5XyyyP/xx |

xx denotes color : WH=White, BL=Blue, GY=Gray, VI=Violet, OR=Orange, RD=Red, GN=Green, YL=Yellow, BK=Black
yyy denotes the number of pairs : 025 ~ 500

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# Category 7 Cable 4 Pair

## Description

- Capable of handling full broadband and baseband
- Low smoke zero halogen and high flame retardant grade of the cable
- Electrical performances comply with IEC 61156-5
- RoHS compliant
- High Performance Electric Noise Shielding
- High Performance Physical Specification
- 10/100/1000/10G BASE-T (IEE 802.3)
- POE++(IEEE 802.3 bt draft.type 3(60W) or Type 4(100W))

## Structure

### Category 7 S/FTP Cable 4 Pair

- Outer Sheath
- Insulated Conductor
- PiMF
- Tinned Copper Braid
- Twisted Pair

### Category 7 F/FTP Cable 4Pair

- Outer Sheath
- Insulated Conductor
- PiMF
- Drain Wire
- Al/Mylar Tape
- Twisted Pair

## Part Numbers

| Description | Flame Retardant Grade | | |
|---|---|---|---|
| | CMX | CM | LSZH |
| Category 7 S/FTP Cable 4Pair | SSP-G-C7G-E1VN-X 0.5X004P/xx | SSP-G-C7G-E1VN-M 0.5X004P/xx | SSP-G-C7G-E1ZN-X 0.5X004P/xx |
| Category 7 F/FTP Cable 4Pair | FSP-G-C7G-E1VN-X 0.5X004P/xx | FSP-G-C7G-E1VN-M 0.5X004P/xx | FSP-G-C7G-E1ZN-X 0.5X004P/xx |

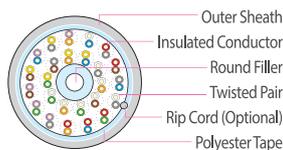xx denotes color : WH=White, BL=Blue, GY=Gray, VI=Violet, OR=Orange, RD=Red, GN=Green, YL=Yellow, BK=Black
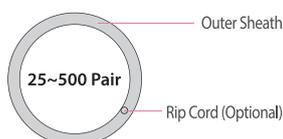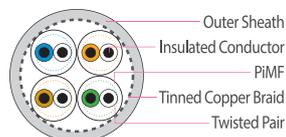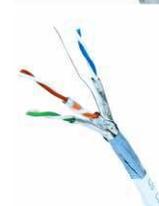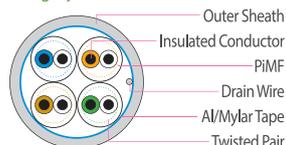
# Fiber Optic Cable

| Structure | Type | Part Numbers |
|---|---|---|
| Outer Jacket / Coated Central Strength Member / Ripcord — Optical Fiber / 0.9mm Buffered Fiber / Aramid Yarn / Sub-unit Jacket / Ripcord | Distribution Cable — LSSS-OC0072 | DT-NVTKVXX/ARR □ □ □ □ ① ② |
| 12-Fiber Cable (Non-Armor) — Optical Fiber / Filling Compound / Loose Buffer Tubes / Glass Yarn / Ripcord / Outer Jacket(LSZH)   12-Fiber Cable (Armor, Anti-rodent) — Optical Fiber / Filling Compound / Loose Buffer Tubes / Glass Yarn / Water blocking tape / Ripcord / Corrugate Steel Tape Armor / Outer Jacket | Central Tube Cable — LSSS-OC0119 (Non-Armor) | CT-NJBGZXX/BRX □ □ □ □ □ (Non-Armor) ① ② |
| | LSSS-OC0198 (Armor) | CT-NJBGSEX/BRN □ □ □ □ □ (Armor) ① ② |
| 24-Fiber Cable (Non-Armor) — Optical Fiber / Jelly Compound / Loose Buffer Tubes / PE Filler / Central Strengh Member / Water Blocking Yarn / Core Wrapping Tape / Ripcord / Glass Yarn (if necessary) / Outer Jacket   24-Fiber Cable (Armor, Anti-rodent) — Optical Fiber / Jelly Compound / Loose Buffer Tubes / PE Filler / Central Strengh Member / Water Blocking Yarn / Core Wrapping Tape / Ripcord / Glass Yarn (if necessary) / Corrugated Steel tape Armor / Outer Jacket | Loose Tube Cable — LSSS-OC0056 (Non-Armor) | LT-DJBGEXX/BRN □ □ □ □ (Non-Armor) ① ② |
| | LSSS-OC0055 (Armor) | LT-DJBGSEX/BRN □ □ □ □ (Armor) ① ② |
| 1-fiber Cable   2-fiber Cable — Coloring Fiber / FRP / LSZH Jacket | Drop Cable — LSSS-OC0097 | DP-DXXZXX/AFX □ □ □ □ ① ② |

① Fiber Type
- MG : 50/125μm Multi Mode 1Gbe
- MX : 50/125μm Multi Mode 10Gbe
- SE : 9/125μm Single Mode Fiber Enhanced
- B(A1) : G657(A1) LWPE EZ-Bend
- Etc.

② Number of Fiber
- 2XX or 2XXX : 2 Core
- 24X or 24XX : 24 Core
- 144X : 144 Core
- Etc.

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# Connectivity

## Modular Jack

| Products | Category | Description | Part Numbers | Compatible items |
|---|---|---|---|---|
| | Cat.5e Cat.6 Cat.6A | Unshielded Modular Jack, Slim Enhanced Rear IDC type | LS-MJ-UCxx-yy-ERI (Non-Door) LS-MJ-UCxx-yy-ERD (Door) | Panel : LS-PP-24P(48P) Series, LS-APP-24P(48P)-E Series, LS-PPP(APP)-UC Series, LS-PP-24P-LWM, LS-PP-MD-24P-E Outlet : LS-FP-SA(SF)(SU)(US)(AUS) Series Tool : LS-EZT-TOOL-ER |
| | Cat.6A | Shielded Modular Jack, Slim Enhanced Rear IDC type | LS-MJ-SC6A-ERI | Panel : LS-PP-24P(48P) Series, LS-APP-24P(48P)-E Series, LS-PPP(APP)-SC series, LS-PP-24P-LWM Outlet : LS-FP-SA(SF)(SU)(US)(AUS) Series Tool : LS-EZT-TOOL-ER |
| | Cat.5e Cat.6 | Shielded Modular Jack, Rear IDC type | LS-MJ-SCxx-yy-RIDC | Panel : LS-PP-24P(48P)-E series Outlet : LS-FP-SA(SF)(SU)(US)(AUS) series Tool : LS-EZT-TOOL-FR |
| | Cat.6 Cat.6A | LED Modular Jack Rear IDC Type | LS-MJ-UCxx-yy-LRI | Panel : LS-PP-24P(48P) Series, LS-APP-24P(48P)-E Series, LS-PPP(APP)-UC Series, LS-PP-24P-LWM, LS-PP-MD-24P-E Outlet : LS-FP-SA(SF)(SU)(US)(AUS) Series Tool : LS-EZT-TOOL-ER |

xx denotes category : 5E(Cat.5e), 6(Cat.6), 6A(Cat.6A) / yy denotes color : WH=White, BL=Blue, RD=Red, BK=Black / 3rd party approval : UL

## 110 Patching Blocks

| Products | Category | Description | Part Numbers | Compatible items |
|---|---|---|---|---|
| | Cat.6 | Unshielded 110 GXC™ Block with leg (40,80P available) | LS-110WB-UC6-yyP-W | In the SoHo box or consolidation box |
| | Cat.6 | Unshielded 110 GXC™ Block without leg (20,40,80P available) | LS-110WB-UC6-yyP-W/O | 19inch Rack bracket : LS-110BRACKET-xU series Mini Rack : LS-HWMR-xx series |
| | Cat.5e | Unshielded 110 Wiring Block with leg (50,100P available) | LS-110WB-UC5ES-yyP-W | In the SoHo box or consolidation box |
| | Cat.5e | Unshielded 110 Wiring Block without leg (25,50,100P available) | LS-110WB-UC5ES-yyP-W/O | 19inch Rack bracket : LS-110BRACKET-xU series Mini Rack : LS-HWMR-xx series |
| | Cat.6 | Unshielded GXC™ 240Port Wall Mount rack | LS-HWMR-PR12-8726-WC6240-WM | Wall mount rack 12U, W8.7 X D 4.0 Inch Other size is available |
| | Cat.5e | Unshielded GXC™ 300Port Wall Mount rack | LS-HWMR-PR12-8726-WC5E300-WM | Wall mount rack 12U, W8.7 X D 4.0 Inch Other size is available |

xx denotes rack units(1U,2U,4U)    yy denotes the number of pairs : 20(20 pair), 25(25 pair), 40(40 pair), 50(50 pair), 80(80 pair), 10 100 pair))    3rd party approval: UL(Cat.5e w  out leg and Cat.6 80Pair)

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# Patch Panel

| Products | Category | Description | Part Numbers |
|---|---|---|---|
| | Cat.6A | 24-Ports Unshielded, Jack type Panel with Enhanced Rear IDC Jack & Wire Management | LS-PPP-UC-24P-E4-WM-C + LS-MJ-UC6A-WH-ERI |
| | Cat.6A | 24-Ports Shielded, Jack type Panel with Enhanced Rear IDC Jack & Wire Management | LS-PPP-SC-24P-E4-WM-C + LS-MJ-SC6A-ERI |
| | Cat.6 | 24-Ports Unshielded Module IDC type Panel With Wire Management | LS-PP-UC6-24P-WM |
| | Cat.6 | 24-Ports Shielded Module IDC type Panel | LS-PP-SC6-24P |
| | Cat.5e | 24-Ports Unshielded Module IDC type Panel | LS-PP-UC5E-24P |
| | Cat.5e | 24-Ports Shielded Module IDC type Panel | LS-PP-SC5E-24P |
| | All | 24-Ports 1U Empty Panel, Jack type, 19" std. with hinged management | LS-PP-24P-E-LWM |
| | All | 48-Ports 2U Empty Panel, Jack type, 19" std. with management | LS-PP-48P-E-WM |
| | All | 24-Ports Hinged Angled Empty Panel, Jack type for Unshielded 19" std. | LS-APP-24P-E(-WM) |
| | All | 48-Ports Hinged Angled Empty Panel, Jack type for Unshielded 19" std. | LS-APP-48P-E(-WM) |
| | All | 24-Ports Angled Empty Panel, Removable Module type for Shielded or Unshielded, 19" std. with Wire management | LS-APP-UC(SC)-24P-E4-WM-C |
| | All | 24-Ports Empty Panel, Removable Module type for Shielded or Unshielded, 19" std. with Wire management | LS-PPP-UC(SC)-24P-E4-WM-C |
| | All | HD 48-Ports Angled Empty Panel, Removable Module type for Shielded or Unshielded, 19" std. with Wire management | LS-APP-48P-E-WM-1U |
| | All | HD 48-Ports Empty Panel, Removable Module type for Shielded or Unshielded, 19" std. with Wire management | LS-PP-48P-E-WM-1U |

* 3rd party approval : UL

# Patch Cord

| Products | Category | Type | Part Numbers | Description |
|---|---|---|---|---|
| | Cat.6, Cat.6A | PVC, LSZH | LS-MTPC-UCxx-yy-zzz | Unshielded Super Slim Patch Cord 32AWG Stranded Copper Turn Boot Type Max. 5m Distance |
| | Cat.5E, Cat.6, Cat.6A | PVC, LSZH | LS-PC-UCxx(L)-yy-zzz | Unshielded Patch Cord 24AWG Stranded Copper Molding Boot Type, UL Listed Max. 20m Distance |
| | Cat.5E, Cat.6, Cat.6A | PVC, LSZH | LS-PC-SCxx(L)-yy-zzz | Shielded Patch Cord 26AWG Shielded Stranded Copper Molding Boot Type, UL Listed Max. 20m Distance |
| | Cat.6, Cat.6A | PVC | LS-PC-UCxx-yy-K-zzz | Unshielded Slim Patch Cord 26AWG Solid Copper Cable Strong Plastic Boot Type Max. 60m Distance |

xx denotes category : 5E(Cat.5e), 6(Cat.6), 6A(Cat.6A)
yy denotes color : WH=White, BL=Blue, YL=Yellow, RD=Red, GN=Green, GY=Gray

zzz denotes length : 005(0.5m), 010(1m), 050(5m) etc    ※ T568A is available
3rd party approval : UL(PVC type)

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# Fiber Connectivity

| Products | Type | Component | Description | Part Numbers |
|---|---|---|---|---|
| | Assembled | - | Assembled FDF, Inner Type | LS-FDF-a-b-(c)-(d)-e-f-I |
| | Assembled | - | Assembled FDF, Outer type | LS-FDF-a-b-(c)-(d)-e-f |
| | | Empty Closure | Empty closure outer type | LS-FDF-xU-EP-O |
| | Module | Front Panel | Front panel 4 module | LS-FDF-BK-4M |
| | | Module (FDM or MCF) | FDM(Fiber Distribution adaptor Module) MCF(Multi-connection fiber Frame) | LS-FDM-a-b-c-d LS-MCF-a-b-c-d |

※Part Number for assembled FDF
a denotes Adaptor : LC, SC, ST
b denotes Fiber type : SM(Single-Mode), MM(Multi-Mode)
*c denotes Sleeve type : C(Ceramic) (* If necessary)
*d denotes Unit : 1U, 2U (* If necessary)
e denotes Cores No : 004(4C) ~ 096(96C)
f denotes Transmission Mode : SP(Simplex), DP(Duplex)

※Part Number for Empty closure, FDM, MCF
x denotes Rack unit : 1U, 2U, 3U, 4U
a denotes Adapter : LC, SC
b denotes Transmission mode : SP(Simplex), DP(Duplex), 4M(Quad)
c denotes Cores No : 06, 12, 18, 24, 36 core
d denotes Fiber type : SM(Single-mode), MM(Multi mode), M3(OM3), M4(OM4)

| Products | Description | Part Numbers |
|---|---|---|
| | Fiber Optic Jumper Cord | LS-JC-AB/AB-C-DEF-G |
| | One Side Connector | LS-PIG-AB-C-DEF-G |

| A denotes Connector type | B denotes Polishing | C denotes Fiber type | D denotes Diameter | E denotes Cable type | F denotes Cable Jacket | G denotes Length (M) |
|---|---|---|---|---|---|---|
| SC = SC Connector | Blank = PC | SM = Single mode (SM) | 09 = Φ0.9 | SP = Simplex Cord | V = PVC | 005=0.5m |
| ST = ST Connector | AC = APC | M1 = Multi mode (OM1) | 20 = Φ2.0 | DP = Duplex Cord | Z = LSZH | 010=1m |
| LC = LC Connector | | M2 = Multi mode (OM2) | 24 = Φ2.4 | | | 050=5m |
| FC=FC Connector | | M3 = Multi mode (OM3) | 30 = Φ3.0 | | | 100=10m |
| | | M4 = Multi mode (OM4) | | | | Etc... |

| Products | Description | Part Numbers | Compatible items |
|---|---|---|---|
| | Fiber Optic Adaptor | LS-FA-a-b-c-d-e-f | |
| | Fiber Optic Connector | LS-FC-a/b-c-d-e | LS-FDF series LS-FDM series LS-MCF series |
| | Field Installable fiber optic connector | LS-FC-a/PC-b-c-FI-d | |

※Part Number for Adaptor
a denotes Type : LC, SC, ST
b denotes Fiber type : SM, MM
c denotes Sleeve type : C (Ceramic)
d denotes Core : 1 (Simplex), 2(Duplex)
e denotes Color : BL(Blue, SM/PC), BG(Beige, MM), GN(Green, SM/APC)
f denotes Flange : W(With Flange), WO(Without Flange)

※Part Number for Connector
a denotes Type : LC, SC, ST
b denotes Polishing : PC (PC type), AC (APC type)
c denotes Fiber type : SM, MM
d denotes Core : 1 (Simplex), 2 (Duplex)
e denotes Color : BL(Blue, SM/PC), BG(Beige, MM), GN(Green, SM/APC)

※Part Number for FI Connector
a denotes Type : LC, SC, ST
b denotes Fiber type : SM, M1, M2, M3, M4
c denotes Color : BL(Blue, SM), BG(Beige, OM1/2), AQ(Aqua, OM3/4)
d denotes cable diameter : 09(900um), 20(2mm), 30(3mm)

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# Outlet

| Products | Description | Part Numbers | Compatible items |
|---|---|---|---|
| | Square Faceplate with Angled (1/2-Port) and Flat (1/2/4-Port) Shutter | LS-FP-SA-x<br>LS-FP-SF-x | Back Box : LS-BB-8686-37, LS-BB-8686-47 |
| | Single Gang British Faceplate with Shutter (1/2-Port) | LS-FP-SU-x | Back Box : LS-BB-8686-37, LS-BB-8686-47 |
| | Euro Type Single/Double Gang Back Box (D27/37mm) | LS-BB-8686-x<br>LS-BB-86147-x | Faceplate : LS-FP-6C-BF-2, LS-FP-EU-BF-2<br>Faceplate : LS-FP-6C-BF-4, LS-FP-EU-BF-4 |
| | 1/2/4/6/9/12-Port US type Single/Double Gang Faceplate | LS-FP-US-xPORT<br>(1~6Port)<br>LS-FP-US-xPORT-D<br>(9~12Port) | Modular Jack : RIDC, ERI type<br>Back Box : LS-BB-11572-38 |
| | 1/2/3-Port Australian Faceplate with Shutter & Icon | LS-FP-AUS-H-x | Back Box : LS-BB-11572-38 |
| | Australian Blank Bezel | LS-FP-AUS-BB | Modular Jack : RIDC, ERI type |
| | US type Single Gang Back Box | LS-BB-11572-38 | Face plates : LS-FP-US-xPort series |
| | Blank Adaptor Insert | LS-AI-US-BI-1 | Patch Panel : LS-PP-XXP<br>Faceplate : LS-FP-US series |
| | Surface Mount Box | LS-SMB-xPORT | Modular Jack : ERI type |

3rd party approval: UL(faceplates)

# Tools

| Products | Description | Part Numbers | Compatible items |
|---|---|---|---|
| | Easy Termination Tool for Modular Jack | LS-EZT-TOOL-FR | Modular Jack : RIDC type |
| | | LS-EZT-TOOL-ER | Modular Jack : ERI type |
| | Punching Down Tool (Modular Jack) | LS-TOOL-MJ | Punching down tool for 1Pin IDC connection |
| | Cable Stripper Tool LS-STOOL | LS-STOOL | Cable Stripper with cutter |
| | Crimping Tool for Cat.5e or Cat. 6 Modular Plug | LS-CT-C5E-SI1 | Modular Plug : LS-MP-UC5E-RJ45 |
| | | LS-CT-C6-SI1 | Modular Plug : LS-MP-UC6-RJ45 |

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# Simple Fast-Net™

## Copper

| Products | Category | Description | Part Numbers | Compatible items |
|---|---|---|---|---|
|  | Cat.6 Cat.6A | Empty patch panel (4 Module) | LS-PPP-UC-24P-EP4-WM-C LS-PPP-SC-24P-EP4-WM-C LS-APP-UC-24P-EP4-WM-C LS-APP-SC-24P-EP4-WM-C | Pre-term Module : LS-PC6 series |
|  | | Pre-term Module (6 Bundle) | Unshielded module LS-PC6-a-wxx-byy-zzz-ERI  Shielded module LS-PC6-SC6-wxx-b-zzz-RIDC LS-PC6-SC6A-wxx-b-zzz-ERI | Modular Jack : LS-MJ-UC6(6A)-xx-ERI LS-MJ-SC6-RIDC LS-MJ-SC6A-ERI  Empty panel : LS-PPP series LS-APP series |

a denotes cable : UC6(UTP category 6), UC6A(UTP category 6A), USC6A(UTP category 6A with USS cable)
w denotes cable flame retardant : M(CM), L(LSZH)
xx denotes cable color : BL(Blue), GY(Gray) etc.
b denotes connection type : JJ(Jack to Jack), JP(Jack to Plug)
yy denotes jack color : BL(Blue), GY(Gray), WH(White) etc.
zzz denotes cord length : 005(0.5m), 010(1m), 050(5m) etc.

* Please contact your LS representative for the available type & length

## Fiber (MPO / MTP Solution)

| Products | Description | Part Numbers | Compatible items |
|---|---|---|---|
|  | MPO/MTP Empty Modular panel | LS-FDF-MC1U-EP4M-O LS-FDF-MC1U-EP4M-D LS-FDF-MC2U-EP8M-O LS-FDF-MC3U-EP12M-O LS-FDF-MC4U-EP16M-O | LS-MCM series |
|  | MPO/MTP Pre-term Cassettes | LS-MCM-SC-DP-12-xx LS-MCM-LC-DP-12-xx LS-MCM-LC-4M-24-xx LS-MCM-LC-4M-36-xx | LS-MTC series LS-MFC series |
|  | MPO/MTP Trunk cable | LS-MTC-MF-xx-12Z(24Z)-yyy (Male to Female)  LS-MTC-FF-xx-12Z(24Z)-yyy (Female to Female) | – |
|  | MPO/MTP Fan-out cord with SC connector | LS-MTC-FF-xx-12Z(24Z)-yyy (Female to Female)  LS-MFC-MSC-xx-12Z(24Z)-yyy (Male to SC connector) | – |
| | MPO/MTP Fan-out cord with LC connector | LS-MFC-FLC-xx-08Z(12Z)(24Z)-yyy (Female to LC connector)  LS-MFC-MLC-xx-08Z(12Z)(24Z)-yyy (Male to LC connector) | |

* * xx denotes transmission mode : SM(Single-mode), M1~M4 (OM1~OM4)
*  yyy denotes length : 030(3m), 050(5m), 100(10m), etc.
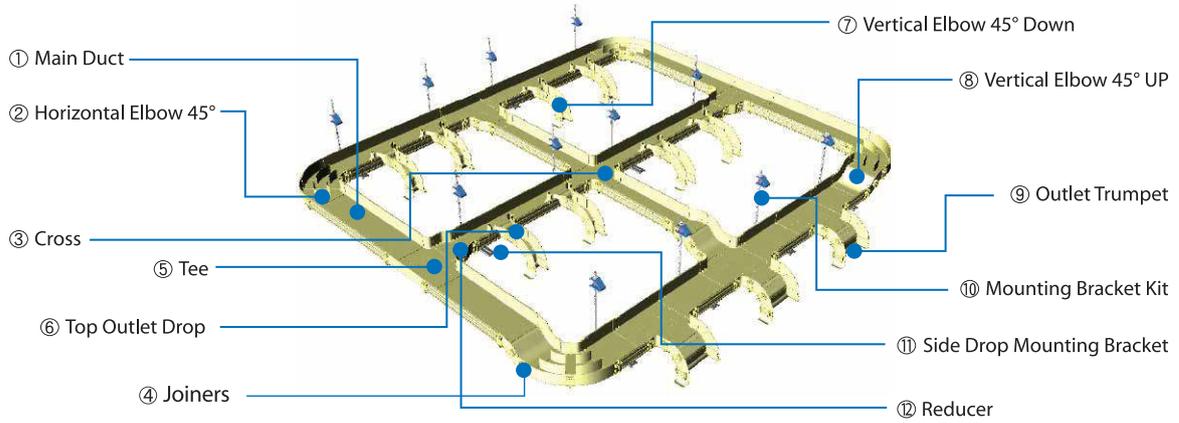*  Please contact your representative for available port & type.

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# Simple™ Rack

| Products | Type | Feature | Part Numbers |
|---|---|---|---|
| | Cabinet rack | - Front door : Tempered bent holed Steel or glass(option)<br>- Load capability Maximum 1,000kg<br>- Aluminum frame & 19Inch standard Rack<br>- Fan unit (220V-1FAN), C-Shelf, Cable Bar 3ea<br>- Power Unit(220V-8Way)<br>- Slim nuts M5 bolt, mounting bar, rear door, side/top/bottom panel included | LS-CR-22-2430-EX(22U)<br>LS-CR-27-2430-EX(27U)<br>LS-CR-31-2430-EX(31U)<br>LS-CR-36-2430-EX(36U)<br>LS-CR-40-2430-EX(40U)<br>LS-CR-42-2430-EX(42U)<br>LS-CR-45-2430-EX(45U) |
| | Mini Wall Mounted Rack & Management | - Front door : Tempered bent holed Steel<br>- Load capability Maximum 500kg<br>- Aluminum frame & 19Inch standard Rack<br>- Fan unit (220V-1FAN), C-Shelf, Cable Bar 3ea<br>- Power Unit(220V-8Way)<br>- Slim nuts M5 bolt, mounting bar, rear door, side/top/bottom panel included | LS-MWR-9U-EX<br>LS-MWR-11U-EX<br>LS-MWR-13U-EX |
| | 2 Post open rack & Management | - Load capability Maximum 1000kg, M5 Screw Mounting<br>- Available for mounting vertical cable management in the left or right(optional)<br>- Rack material : black color, cold-rolled steel<br>- VCM Guide : flame retardant PC or ABS<br>- M5 Bolts included in open rack | LS-OR-PAT-xA-EX (2Post open rack)<br>LS-OR-PATV-xA-EX (Vertical management)<br>LS-OR-PATS-A-EX (Accessory, Rack holder) |
| | Extension rack for Datacenter | - Load capability Maximum 1200kg, M5 Screw Mounting<br>- Available for mounting vertical cable management in the left or right(optional)<br>- Rack material : black color, cold-rolled steel<br>- VCM Guide : flame retardant PC or ABS<br>- M5 Bolts included in open rack | LS-HVF-xS-EX (4Post rack frame)<br>LS-VCM-xS-EX (Vertical cable management)<br>LS-SD-xS-EX (Side cover)<br>LS-FD-xS-EX (Dual perforation hole door) |
| | High density rack for Datacenter | - High Density PKG Server & Patch rack<br>- Loading capacity : 1200kg<br>- 4Post with Doors(1 front door, 2 rear door), side panel<br>- Fan unit (220V-2FAN) | LS-HDR-SVRxA-EX (Server rack)<br>LS-HDR-NWKxA-EX (Network rack) |
| | Eco rack | - Eco-friendly Design by Plastic Cover<br>- Convenient Installation & Transport by low-weight<br>- Sufficient Strength & Hardness | LS-MER-6U-390-EX<br>LS-MER-9U-525-EX<br>LS-MER-14U-750-EX |

x denotes rack unit
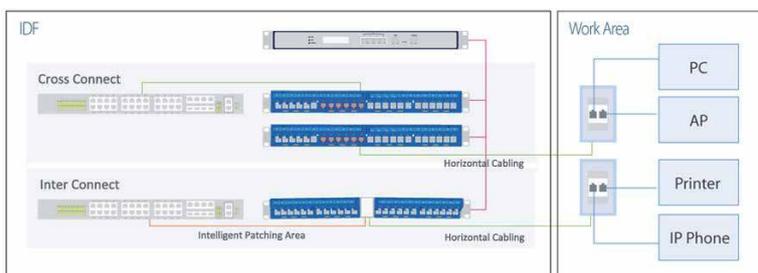* Please contact your LS representative for available type & rack unit

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# Simple™ Raceway



① Main Duct
② Horizontal Elbow 45°
③ Cross
⑤ Tee
⑥ Top Outlet Drop
④ Joiners

⑦ Vertical Elbow 45° Down
⑧ Vertical Elbow 45° UP
⑨ Outlet Trumpet
⑩ Mounting Bracket Kit
⑪ Side Drop Mounting Bracket
⑫ Reducer

| Products | | | Description | Part Numbers | Dimension (W x H) |
|---|---|---|---|---|---|
| ① | ② | ③ | 1. Main duct | LS-DS-MD-xx | |
| | | | 2. Horizontal Elbow 45degree | LS-DS-HA45-xx | |
| | | | 3. Cross | LS-DS-CA-xx | |
| ④ | ⑤ | ⑥ Horizontal / Vertical | 4. Joiners | LS-DS-JO-xx | 300mm X 100mm 220mm X 100mm 160mm X 100mm 100mm X 100mm |
| | | | 5. Tee | LS-DS-TA-xx | |
| | | | 6. Top Outlet Drop | LS-DS-HT(VT)-10 | |
| ⑦ | ⑧ | ⑨ | 7. Vertical Elbow 45degree Down | LS-DS-DA45-xx | |
| | | | 8. Vertical Elbow 45degree Up | LS-DS-UA45-xx | |
| | | | 9. Outlet Trumpet | LS-DS-TP-xx | |
| ⑩ | ⑪ Horizontal / Vertical | ⑫ | 10. Mounting Bracket Kit | LS-DS-MB-xx | |
| | | | 11. Side Drop Mounting Bracket | LS-DS-SDB-05(10) LS-DS-DMTB-SD-10 | 100mm X 100mm 50mm X 100mm |
| | | | 12. Reducers | LS-DS-RD-xx | Step down |

xx denotes Size of Width : 05(50mm), 10(100mm), 16(160mm), 22(220mm), 30(300mm)
Standard length (Main duct) : 2m
Reducers Part Number at xx (W) : 30(300mm ->220mm, 22(220mm->160mm), 16(160mm->100mm)

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# Simple Win™ I2MS(Intelligent Infrastructure Management System)



| Products | Part Numbers | Description |
|---|---|---|
| **Intelligent Controller** | LS-IC960-PS1A<br>LS-IC960-PS2A<br>LS-IC384-PS1A | Intelligent Controller, 960Ports, Power Supply 1ea<br>Intelligent Controller, 960Ports, Power Supply 2ea<br>Intelligent Controller, 384Ports, Power Supply 1ea |
| **485 Cable** | LS-ICPC960-001-A<br>LS-ICPC960-002-A<br>LS-ICPC960-005-A | 960Ports Intelligent between controller and FDF or Panel, 1M<br>960Ports Intelligent between controller and FDF or Panel, 2M<br>960Ports Intelligent between controller and FDF or Panel, 5M |
| **Intelligent Panel** | LS-IPPC-UC-24P<br>LS-IPPI-UC-24P<br>LS-IAPC-UC-24P<br>LS-IAPI-UC-24P<br>LS-IPPC-SC-24P<br>LS-IAPC-SC-24P | Intelligent Cross-Connection Unshielded plate panel 24ports 1U, 19″ rack mount, without Modular Jack<br>Intelligent Inter-Connection Unshielded plate panel 24ports 1U, 19″ rack mount, without Modular Jack<br>Intelligent Cross-Connection Unshielded angled panel 24ports 1U, 19″ rack mount, without Modular Jack<br>Intelligent Inter-Connection Unshielded angled panel 24ports 1U, 19″ rack mount, without Modular Jack<br>Intelligent Cross-Connection Shielded plate panel 24ports 1U, 19″ rack mount, without Modular Jack<br>Intelligent Cross-Connection Shielded angled panel 24ports 1U, 19″ rack mount, without Modular Jack |
| **Intelligent RJ45 Patch Cord** | LS-IPCC-UC6(L)-xx-yyy, LS-IPCC-UC6A(L)-xx-yyy<br>LS-IPCC-SC6(L)-xx-yyy, LS-IPCC-SC6A(L)-xx-yyy<br>LS-IPCI-UC6(L)-xx-yyy, LS-IPCI-UC6A(L)-xx-yyy<br>LS-IPCS-UC6(L)-xx-yyy, LS-IPCS-UC6A(L)-xx-yyy | Intelligent Cross-Connection (Panel to Panel patching) UTP Cat.6 or Cat.6A, PVC(or LSZH) Cord<br>Intelligent Cross-Connection (Panel to Panel patching) STP Cat.6 or Cat.6A, PVC(or LSZH) Cord<br>Intelligent Inter-Connection (Panel to Switch patching) UTP Cat.6 or Cat.6A, PVC(or LSZH) Cord<br>Intelligent Inter-Connection (Panel to Switch patching) UTP Cat.6 or Cat.6A, PVC(or LSZH) Security Cord |
| **Intelligent Fiber Distribution Frame** | LS-IFDC-LC-SM-C-048-DP-D<br>LS-IFDC-LC-MM-C-048-DP-D<br>LS-IFDC-LC-M3-C-048-DP-D<br>LS-IFDC-LC-M4-C-048-DP-D | Intelligent Cross-Connection LC single-mode, duplex, 24ports(48cores), Slide type, 19″ rack mount 1U<br>Intelligent Cross-Connection LC multi-mode, duplex, 24ports(48cores), Slide type, 19″ rack mount 1U<br>Intelligent Cross-Connection LC OM3, duplex, 24ports(48cores), Slide type, 19″ rack mount 1U<br>Intelligent Cross-Connection LC OM4, duplex, 24ports(48cores), Slide type FDF, 19″ rack mount 1U |
| **Intelligent Fiber Jumper Cord** | LS-IFCC-IL/IL-SM-40DPV(Z)-yyy<br>LS-IFCC-IL/IL-MM-40DPV(Z)-yyy<br>LS-IFCC-IL/IL-M3-40DPV(Z)-yyy<br>LS-IFCC-IL/IL-M4-40DPV(Z)-yyy | Intelligent Cross-Connection LC duplex, single-mode Fiber Jumper Cord, PVC(or LSZH) Jacket<br>Intelligent Cross-Connection LC duplex, multi-mode Fiber Jumper Cord, PVC(or LSZH) Jacket<br>Intelligent Cross-Connection LC duplex, OM3 Fiber Jumper Cord, PVC(or LSZH) Jacket<br>Intelligent Cross-Connection LC duplex, OM4 Fiber Jumper Cord, PVC(or LSZH) Jacket |
| **Software** | LS-IMSW-W-zzzzz<br>LS-IMSW-W-ADD<br>LS-IMSW-M-zzzzz<br>LS-IMSW-M-ADD | Intelligent Management Software Port License<br>Intelligent Management Software Additional License<br>Intelligent Management Software Port License (Mobile)<br>Intelligent Management Software Additional License (Mobile) |

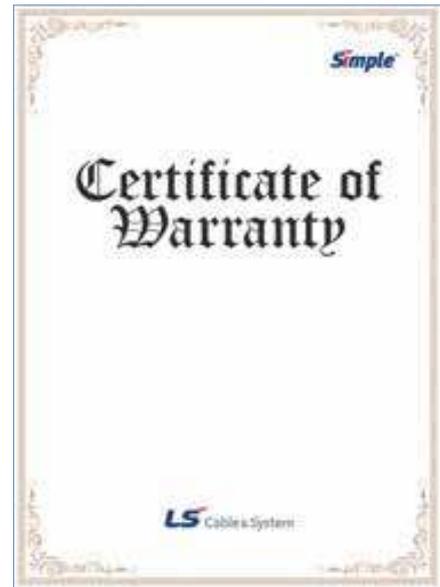* xx denotes cord color: WH(White), BL(Blue), YL(Yellow), RD(Red), GN(Green), GY(Grey) etc.
* yyy denotes cord lengths: 005(0.5m), 010(1m), 030(3m), 050(5m), 070(7m), 100(10m) etc.
* zzzzz denotes management port number: 01000(1000ports), 02000(2000ports), 03000(3000ports)
* Please contact your LS representative for available fiber jumper cord diameter and polishing type etc.

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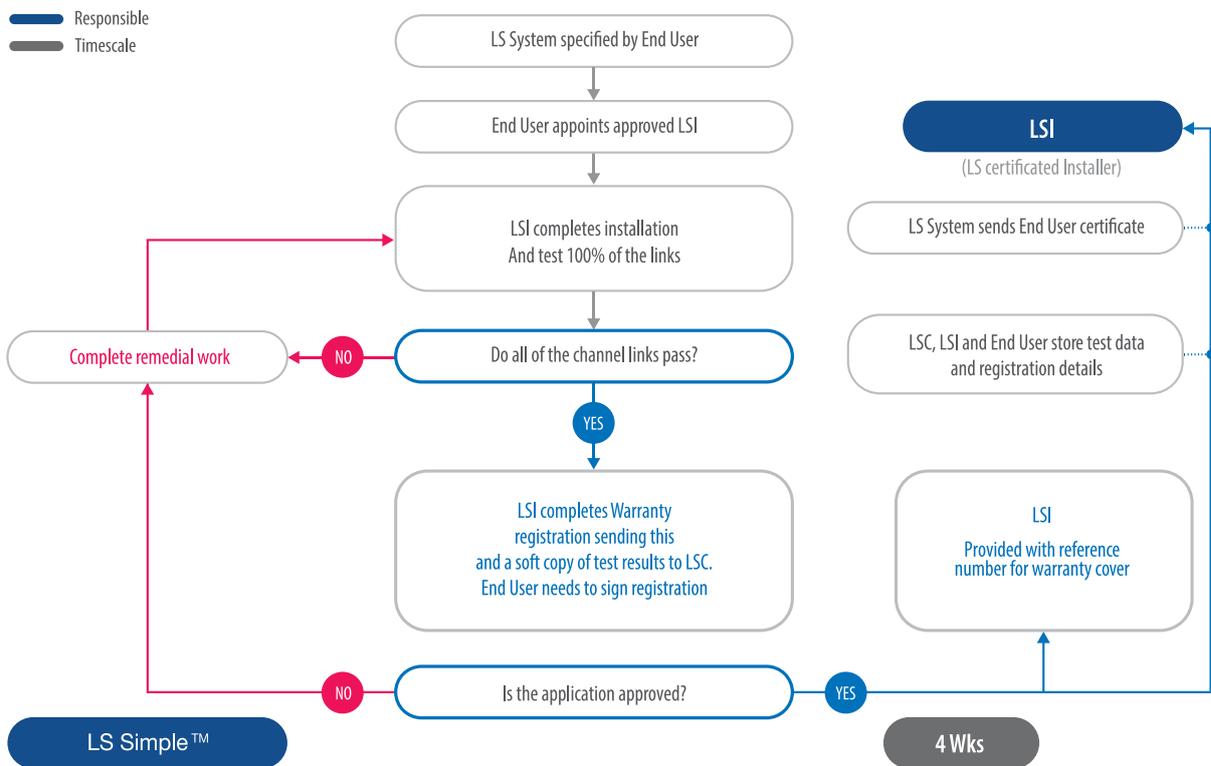
# LS Simple™ Warranty

## LS Simple™ Warranty

**The Simple™ range of solutions is supported by a Simple™ comprehensive warranty**

- Unique 25 year application and product warranty.
- The warranty applied to the network and can be sold as an asset.
- The warranty is only offered by fully trained LS Integrators.
- The system is independently inspected by a third party.

## LS Simple™ Warranty Process

Responsible
Timescale

LS System specified by End User

End User appoints approved LSI

LSI completes installation
And test 100% of the links

Do all of the channel links pass? — NO → Complete remedial work

YES

LSI completes Warranty
registration sending this
and a soft copy of test results to LSC.
End User needs to sign registration

Is the application approved? — NO / YES

LS Simple™

LSI
(LS certificated Installer)

LS System sends End User certificate

LSC, LSI and End User store test data
and registration details

LSI
Provided with reference
number for warranty cover

4 Wks

# PROJECT REFERENCE IN VIETNAM


LE MERIDIEN HOTEL HCMC 2013


LOTTE TOWER HANOI 2014


KEANGNAM LANDMARK TOWER HANOI 2010


BITEXCO TOWER HCMC 2009


KUMHO ASIANA HOTEL HCMC 2010


MARRIOTT HOTEL HANOI 2010

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# PROJECT REFERENCE IN VIETNAM

AEON BINH TAN HCMC 2016

AEON CELADON TAN PHU HCMC 2013

AEON CANARY BÌNH DƯƠNG 2014

LOTTE MART ĐÀ NẴNG 2013

LOTTE MART PHAN THIẾT  2013

LOTTE MART BÌNH DƯƠNG  2013

LOTTE MART HCMC 2010

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CHILDREN HOSPITAL HCMC 2016


CITY CANCER HOSPITAL HCM 2017


BINH DINH GENERAL HOSPITAL 2017


108 MILITARY CENTRAL HOSPITAL HANOI 2016


TAM HOP HOSPITAL HCMC 2014


TON DUC THANG UNIVERSITY HCMC 2011


RMIT UNIVERSITY HCMC 2012

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# PROJECT REFERENCE IN VIETNAM



VINHOMES CENTRAL PARK 2017



GOVERNMENT SECURITY GENERAL A70-A71 HCMC 2014



SUN AVENUE 2017



VĂN PHÒNG THÀNH ỦY HCM 2016



LEXINGTON HCM 2015



RICHSTAR 2017



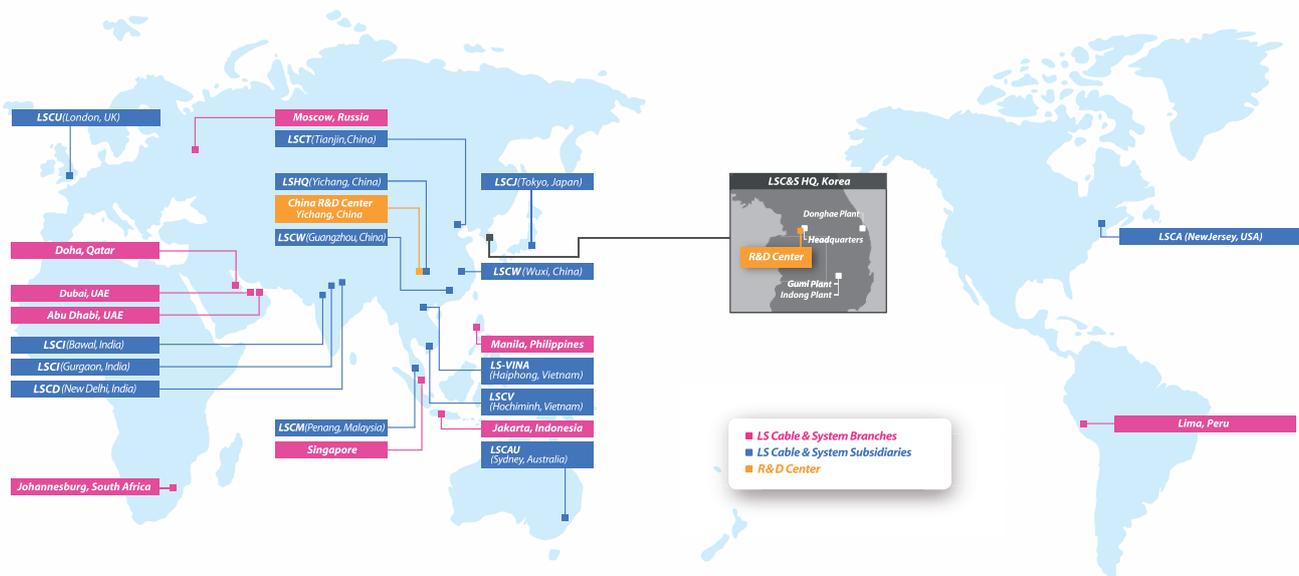GREEN VALLEY HCM 2015



SUNRISE CITY 2014-2015

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![KIMQUANG Electrical equipment logo]

*Liên hệ nhà phân phối cáp mạng LS*

## CÔNG TY TNHH THIẾT BỊ ĐIỆN KIM QUANG

### 41 đường số 1 - P. An Lạc (Q. Bình Tân) - TP. HCM

# Global Network



LSCU (London, UK)
Moscow, Russia
LSCT (Tianjin, China)
LSHQ (Yichang, China)
China R&D Center Yichang, China
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