

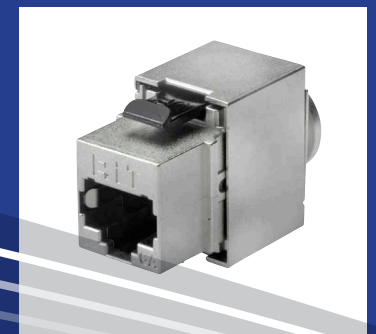
## About RiT Tech

RiT Tech is a leading provider of converged IT infrastructure management and connectivity solutions. RiT offers a platform that provides a unified way to manage converged systems and services to improve network utilization, streamline infrastructure operations, reduce network operation cost, optimize future investments and enhance data security.

RiT's connectivity solutions includes IIM - Intelligent Infrastructure Management, high performance end-to-end structured cabling solutions.

Deployed around the world in data centers, large corporations, government agencies, financial institutions, telecommunications, airport authorities, healthcare organizations and educational facilities.

# RiT Tech Catalog Solutions



RiT Tech Catalog Solutions



**International Headquarters**  
RiT Tech Ltd.  
Tel: +972.77.270.7270  
Fax: +972.3.647.4115  
email: mkt@rittech.com



[www.rittech.com](http://www.rittech.com)

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## Bridging Infrastructure & Network



# End-to-End Catalog Solutions

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## Quality, Environmental Policy & Products Certificates

Customer satisfaction is the underlying principle which drives all of the activities of RiT Tech. RiT believes that the primary source of its customers' satisfaction is the uncompromising quality of its products and services. In addition, RiT believes its customers are concerned about the environment, and demand a similar dedication from their vendors and partners.

This quality policy underlies all the activities of all departments of RiT Tech. It is published for the general knowledge of the industry.

All RiT components, links and channels exceed industry standards, as verified by independent testing laboratories in the US and in Europe (documentation available upon request). SMARTen (Category 6A) systems conform to ANSI/TIA/EIA-568-C.2 standard for Category 6A/CLASS EA. SMART CLASSix (Category 6) components conform to ANSI/TIA/EIA-568-C.2 series for Category 6/Class E. SMART GIGA (Category 5e) components conform to ANSI/TIA/EIA-568-C.2 series for Category 5e/Class D.

RiT is certified ISO 9001:2015 and ISO 14001:2015. Further independent confirmation of the quality of RiT products is evident in the fact that in almost two decades, customer returns remain close to zero.

RiT product performance verified and tested by UL, Intertek, Delta, 3P and other laboratories.

RiT is also a Certified BICSI Member.





# PatchView+



PatchView+ is the next-generation IIM solution from RiT technologies. PatchView+ is the industry's first IIM solution that truly supports mixed inter-connect, cross-connect and combined topologies, as well as combined copper and fiber cabling.

PatchView+ provides a comprehensive real-time view of the network, including all IT assets; pinpointing their exact location and status at the rack, cabinet, room, building and site.

PatchView+ constantly monitors the network and alerts to network problems, identifying points of failure before they cause downtime.

PatchView+ also automates regular network maintenance, helping streamline work, eliminate human error and reduce maintenance costs.

## The PatchView+ Advantage

### Support for the Future Network

PatchView+ is the industry's first IIM solution that truly supports mixed inter-connect, cross-connect and combined topologies, as well as combined copper and fiber cabling.

This means that PatchView+ is designed to support not only your current network architecture – including networks with distributed locations and varied topologies - but also future upgrades and architectural changes, thus maximizing your return on investment.

PatchView+ also supports future Ethernet protocols including 40/100 Gbps.

### Next Generation: New Architecture that Saves on Space and Power

PatchView+ requires Zero U of rack space to support an unlimited number of ports; dramatically reducing the number of panels required inside the rack. This, in turn, means lower power consumption and lower space requirements.

Fewer components also mean fewer points of failure in the communication room.

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## PatchView+ Features

### New feature

#### Support for Interconnect Network Topology

PatchView+ is the industry's first IIM solution to truly support mixed interconnect, cross-connect and combined topologies, as well as combined copper and fiber cabling. PatchView+ supports future Ethernet protocols (including 1/10/40/100 Gbps over copper and fiber respectively).

### New feature

#### New Architecture that Saves on Space and Power

PatchView+ requires Zero U of rack space to support an unlimited number of ports, which means major reduction in the number of panels inside the rack and reduced power, cooling and space consumption. Fewer components also mean fewer points of failure.

#### A Comprehensive Real-Time View of the Entire Network Infrastructure

The IP Discovery Module creates a visual map of the complete network that is updated in real-time: from building and floor level, down to cabinet, rack, device and port level. The map includes device location, IP and MAC address, host name and type, as well as precise links between devices, switches and ports.

#### Monitoring and Alerting

PatchView+ continuously monitors the network, including all physical connections and environment sensors; sending proactive alarms on any threshold deviations or a compromise of pre-defined rules.

#### Detailed Reports

PatchView+ generates detailed reports, alerts and notifications according to pre-set rules, providing vital information on a wide array of network variables such as switch utilization, connectivity, work orders and more.

#### Automated Work Orders

PatchView+ generates automated guided work orders with a mobile application and light indicators to rack and panel; so technicians can get to the right place in minimum time and update upon completion with zero manual errors.

#### Equipment utilization

PatchView+ checks equipment utilization, such as switches and panel ports, so managers can ensure that all ports on current switches are utilized before investing in additional expensive equipment.

#### Provisioning, Asset Management and Support for Network Changes

The PatchView+ automatic provisioning module optimizes placement of IT equipment according to space, power and cooling variables for effective lifecycle management and planning, including "what if" scenarios and simulation of potential changes.

#### Improved Network security

The "Unauthorized Device" feature designates specific devices to ports and generates alerts in case of attempted unauthorized connects/disconnects to the ports. In addition, the patented ID Key detects attempts at unauthorized connections to IT assets such as servers and switches.

PatchView+ also complements application security solutions, providing the physical location of the infected device and helping IT staff zero-in quickly on security threats.

#### Strong Integration with External Applications

PatchView+ integrates seamlessly with external applications such as building management systems, IT systems and billing systems, using an easily deployable SDK.

#### Environment Monitoring

Environment sensors provide real-time monitoring and alerting to climate deviations at the rack level, so managers can be alerted to equipment overheating and other malfunctions before damage is done.

## Customer Highlight

### Network Security

The PatchView+ ID Key which enables PatchView+ to track network devices in real time, also detects attempts at unauthorized connections to devices such as switches and servers.

A RiT customer commented, "If an unauthorized user tries to connect to one of our servers, panels or switches anywhere in the world, or hook up an unauthorized device - we know about it immediately.

"How much is this worth to me? Well, how much is our customers' confidential information – in fact all my business information – worth to me?"

## How PatchView+ Works

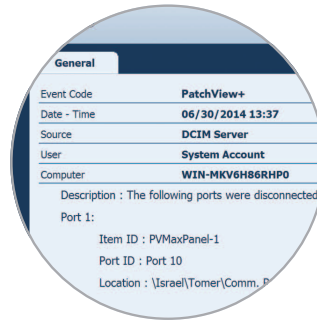


The PatchView+ patented technology provides a designated ID number to every IP active equipment port located in the IT cabinets.

This enables to identify and track any patching changes made to the network, regardless of vendor or connection methodology (through support for RJ-45, LC or MPO connector interface).

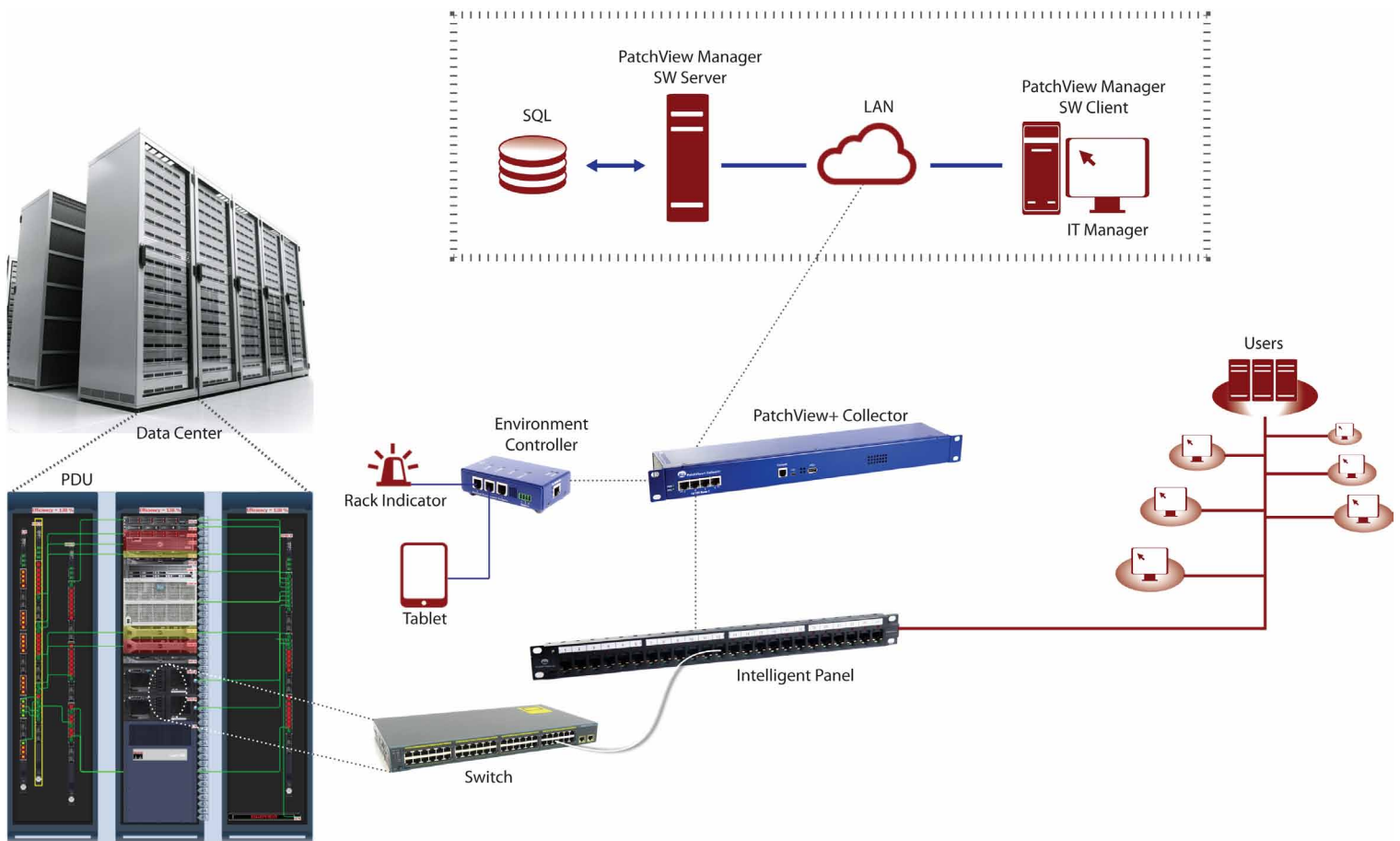


This functionality is achieved with the PatchView+ patented Smart ID Key that resides in the switch port and stores the link information.



The link information is then gathered by the PatchView+ Manager that uses it to provide various services such as mapping the network, alerts, reports and more.

## PatchView+ System Architecture



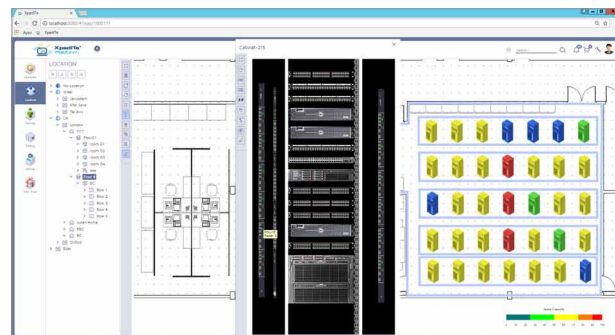
# XpediTe Platform

XpediTe is a robust, highly versatile software platform that is part of the RiT IIM solution and works in conjunction with PatchView+ Hardware and PVMMax Hardware to enable proactive management of your communications network.

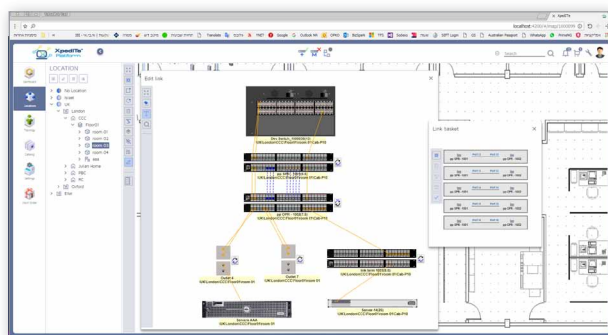
XpediTe is a web application with an intuitive GUI that can be installed on any computer enabling remote monitoring and control of multiple network sites.

## XpediTe Features

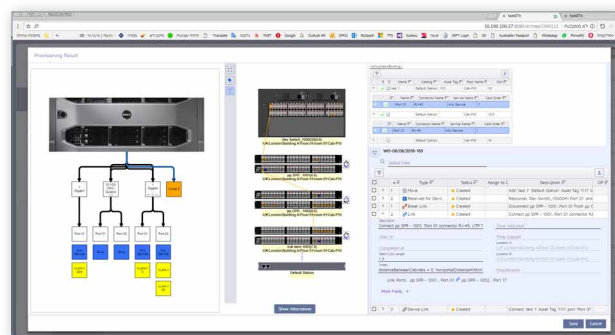
- Support for inter-connect, cross connect and combined network topologies providing accurate documentation of the entire end to end connectivity of devices, as well as tracking the connected network devices and their physical location in real time.
- Discovery Module that creates a visual map of each cabinet's components (IP-driven devices), providing location, link information, IP and MAC address, host name and type. The map includes precise links between devices, switches and ports.
- A web application that can be installed on any computer for remote monitoring and control of multiple sites.
- Automated work order generation (including multi-team) and guided MACs, with rack-top indicators and rack/port LEDs, ensuring error-proof maintenance and reduced technician and management overhead costs.
- Automated provisioning module that optimizes placement and connection of IT equipment, taking best advantage of space, power and cooling; enables effective lifecycle management and long term planning ("what if" scenarios) to support business applications efficiently.
- Detailed reports, compiled and generated according to pre-set rules, provide information on a wide range of network variables such as switch utilization, connectivity status, work order status, environment and power history and more.
- An SDK that is simple to deploy allows easy integration with external applications such as BMS, ITSM, DCIM and management systems.
- Proactive alarms and notifications, including switch port identification.
- Tablet and smart phone application for technicians who perform onsite work orders with real-time progress updates, and monitoring by managers.



*XpediTe's Asset Management Module builds the database for you – and keeps it accurate, automatically.*



*XpediTe's Connectivity Documentation Module gives you a centralized, visual point-of-view of the entire network infrastructure.*



*XpediTe Platform offers automation with full-featured provisioning and work order management to speed commissioning and implementation, increase response-time and reduce error.*

# XpediTe Platform

## Deployment Server

Group	Component	Minimum Requirements
Hardware	CPU	i7 processor, Running at 2.4GHz or greater (for large installations, the computer configuration should be determined separately)
	RAM	16GB (Recommended 32GB or higher)
	Hard Disk Space	80GB
Software	Operating Systems	Windows Server 2012 R2 (x64) or higher
	Microsoft .NET	.NET 3.5 with SP1 and .NET 4.5
	Web Browsers	Google Chrome (Version 65.0.3325 or higher), IE 11 (compatability mode settings)
	DB	MS SQL 2012 or higher
	IIS 7	FTP Server, SMTP Services
	MSMQ	Version 2.0/3.0 or higher

## Client

Group	Component	Minimum Requirements
Hardware	CPU	i3, i5 & i7 processors
	RAM	4GB or higher
	Hard Disk space	50GB
Software	Operating Systems	Microsoft Windows 2012 server or higher, Windows 7, Windows 10
	Web Browsers	Google Chrome, IE 11 with ActiveX, Cookie and Java Script support

# XpediTe Platform

Part #	Description
R5301000	XpediTe Platform Core Package
R5302000	XpediTe Platform Standard Package
R5303000	XpediTe Platform Premium Package
R5301001	XpediTe Platform Core Additional Ports
R5302001	XpediTe Platform Standard Additional Ports
R5303001	XpediTe Platform Premium Additional Ports
R5301010	Upgrade from PV4E 5.X Core to XpediTe Platform Core Package
R5302020	Upgrade from PV4E 5.X Standard to XpediTe Platform Standard Package
R5303030	Upgrade from PV4E 5.X Advanced to XpediTe Platform Premium Package
R5301110	Upgrade from PV4E 6.X Core to XpediTe Platform Core Package
R5302120	Upgrade from PV4E 6.X Standard to XpediTe Platform Standard Package
R5303130	Upgrade from PV4E 6.X Advanced to XpediTe Platform Premium Package
R5301220	Upgrade from XpediTe Platform Core to Standard Package
R5301230	Upgrade from XpediTe Platform Core to Premium Package
R5302230	Upgrade from XpediTe Platform Standard to Premium Package
R5398008	XpediTe Platform Media Package
R5399000	XpediTe Platform Demo License
R5003600	Software Customization for a new switch driver
R5398009	SDK Package
R5004200	SiteBuilder 2.5 Including Media

The background features a large white circle on the left side, partially overlapping a solid blue area on the right. Below the circle, there are several overlapping, curved, and angular shapes in various shades of blue, creating a layered, abstract effect.

# PatchView+ Hardware



# PatchView+ Collector

## Description

The PatchView+ Collector provides bi-directional communications between the PatchView+ Cards and rest of the system. The Collector “collects” data from the PatchView+ Cards and provides real-time data to the system. It also sends various commands to the Cards.

Each Collector supports up to 24 Cards, with each Card supporting 24 ports.



The Collectors can be installed either in a zero-U or 1U configuration.

## Features

- Supports 4 TCP/IP ports & functioning like switch
- Collects data from the PatchView+ Cards and routes it to agents upon request over TCP/IP network, private or public, for advanced security
- Supports up to 24 PatchView+ Cards
- Supports a unique ID code for system-wide identification
- Supports a daisy-chain configuration using TCP/IP ports, enabling unlimited network growth
- Includes an On-the-GO (OTG) mini-AB USB socket, enabling connection to an external device such as a tablet PC for work order and switch learning
- Collection is powered through the mains supply directly from line 220V and supplying power to up to 24 PatchView+ cards.

## Specifications

### Interfaces

- LAN TCP/IP x 4
- USB A/B and USB A
- Console RS-232 (technician port)
- RJ-45 x 24 for PatchView+ cards connect

### Power

- Input Voltage: 100–240 VAC, 47–63 Hz
- Input Current: 1–2 A

### Dimensions and Weight

- Height: 43 mm (1.7 in.)
- Width: 440 mm (17.3 in.)
- Depth: 86 mm (3.4 in.)
- Weight: 0.6 kg (1.3 lbs.)

### Environmental Conditions

- Temperature: 0–50°C
- Humidity: Up to 85% non-condensing

Part #	Description
R6200200	PatchView+ Collector

## PatchView+ Card

### Description

The PatchView+ Card is a pluggable device that supports physical network identification on interconnect and criss-connect topologies. It automatically detects and reads up to 24 smart ID devices present on each Copper Frame or Fiber Tray.



### Features

- Supports a unique ID for system-wide identification
- Powered from the Collector through an RJ-45 8-wire shielded cord
- Supports LEDs on the RJ-45 jack for displaying its power and activity status
- Connects to the Copper Frame or Fiber Tray

### Specifications

#### Dimensions and Weight

- Height: 12 mm (0.5 in.)
- Width: 35 mm (1.4 in.)
- Depth: 88 mm (3.5 in.)
- Weight: 70 grams (2.5 oz.)

#### Environmental Conditions

Temperature: 0-50°C (32-122°F)

Part #	Description
R6200110	PatchView+ Card

## PatchView+ Environment Controller

### Description

The PatchView+ Environment Controller module interfaces the Controller to devices such as temperature and humidity sensors, and beacons in the system.

- Up to three external sensors of types such as temperature, humidity, and dry contacts
- One built-in temperature sensor
- Two beacon drivers connected through hot swap controllers



### Specifications

- Interfaces
- 3 x Sensor ports
- 2 x Rack Indicator contacts
- 1 x RJ-45 socket
- 1 x Internal temperature sensor
- 1 x USB mini A/B

#### Dimensions and Weight

- Height: 27.75 mm (xx in.)
- Width: 61.5 mm (xx in.)

- Depth: 106 mm (xx in.)
- Weight: 205 grams (xx oz.)

#### Environmental Conditions

- Temperature: 0-50°C
- Humidity: Up to 90% non-condensing

Part #	Description
R6200050	PatchView+ Environment/Security Controller

## PatchView+ Copper Frame

### Description

The PatchView+ Copper Frame is a high-performance 1U 24 ports communication panel that supports modular architecture. The Copper Frame supports mixed cross-connect and interconnect network topologies with unique ID mechanism incorporated within the frame.

Each port in the frame includes two external contacts that support ID scanning.

The PatchView+ Copper Frame supports up to 24 modular jacks.



### Features

- Supports 24 copper ports in a 19" 1U frame
- Supports mixed interconnect and cross-connect topologies
- Supports the Frame operation mode defined by multi-function push button and multi-color LED
- Supports a simple, modular architecture with unlimited expansion capability
- Includes a socket for the PatchView+ Card installation
- Includes two external contacts on each port of the Frame for ID reading
- Supports a red LED on each port, which assists in visual monitoring and maintenance
- Includes a manual scan button that enables support personnel to view system connectivity by initiating a manual port scan
- Includes an audible buzzer for maintenance activities

### Specifications

#### Dimensions and Weight

- Height: 44 mm (1.7 in.)
- Width: 485 mm (19.1 in.)
- Depth: 101 mm (4.0 in.)
- Weight: 0.55 kg (1.2 lb.)

#### Environmental Conditions

- Temperature: 0–50°C (32–122°F)
- Humidity: Up to 90% non-condensing

Part #	Description
R6011000	PatchView+ Copper 24 Frame

# PatchView+ Cross-Connect Copper Cords

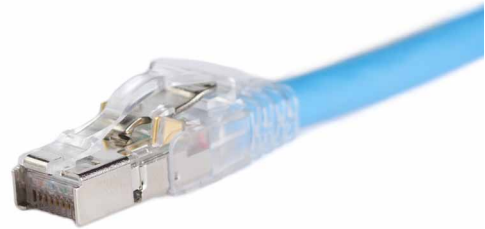
## Description

High performance CAT6A copper Patch Cords support PatchView+ cross-connect topology and be used as stand-alone cord as per work area cord.

By having same ID on both ends of the cord, the PatchView+ copper frame is detecting the unique ID and by that the connection is being logged in CenterMind DB.

Based high-end CAT6A S/FTP patch cable, 26AWG, the cord is terminated with patented RJ-45 plugs that include two conductive, flexible contacts.

The cross-connect topology includes two smart ID devices, one on each end of the patch cord.



## Features

- Copper cords jumpers for PatchView+ cross-connect applications
- Comprise of 8-wires Category6A S/FTP flexible patch cable, terminated with two fully shielded RJ-45 plugs at each end with two external ID contacts
- Non-molded flexible boot for enhanced life and reliability
- Conform to ANSI/TIA/EIA-568-B.2-10, ISO/IEC 11801 2.1 edition and CENELEC EN50173 (200x) standards for Category 6A/CLASS EA
- 100% tested at the factory

## Specifications

### Construction

- **Basic Wires**  
Conductor: eight wires, stranded bare copper, 7 x 0.16 mm (26 AWG)  
Insulation: foam skin, polyolefin, 0.98±0.02 mm OD.
- **Pair Construction:** Two Control Wires Conductor: stranded bare copper, 7 x 0.16 mm (26 AWG)  
Insulation: solid polyolefin, 0.78±0.02mm outer diameter, colored red.
- **Pair Construction:** Four pairs, each pair wrapped in polyester-aluminum foil (metal face outward), providing 100% coverage.
- **Pair Color Codes (2 wires/pair):** Blue/white, orange/white, green/white, brown/white.
- **Pair Arrangement:** Four pairs cabled together around the control wire.
- **Overall Shield:** Tinned-copper braid (providing 65% minimum coverage), laid in close contact with a 26 AWG stranded, tin-plated, copper drain wire.
- **Overall Diameter:** 6.0±0.2 mm..
- **Outer Sheath:** Light Blue soft LSZH compound, with black printing.

Part #	Description
R61220XX	PatchView+ Cord, Cat. 6A, S/FTP, C/C

# PatchView+ Inter-Connect Copper Jumpers

## Description

High performance CAT6A copper Patch Cords support PatchView+ interconnect topology and be used as stand-alone cord as per work area cord.

Based high-end CAT6A S/FTP 26AWG cable cord, the cord supports two additional stranded wires to produce an eight-wire cord. The cord is terminated with patented RJ-45 plugs that include two conductive contacts.

The interconnect topology includes one smart ID device at the switch side. The plugs on the interconnect patch cord are fitted with a dummy latched cover that enables easy plug insertion and removal from the frame or switch.



## Features

- Copper cords jumpers for PatchView+ Inter-connect applications
- Comprise of 8 data-wires Category6A S/FTP flexible patch cable + 2 control wires, terminated with two fully shielded RJ-45 plugs at each end with two external ID contacts
- Non-molded flexible boot for enhanced life and reliability
- Conform to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801 2.1 edition and CENELEC EN50173 (200x) standards for Category 6A/CLASS EA
- Backward compatible with Category 5e and Category 6
- ID key is sold separately
- 100% tested at the factory

## Specifications

### S/FTP Jumper Cable

#### Construction

- Basic Wires Conductor: eight wires, stranded bare copper, 7 x 0.16 mm (26 AWG) Insulation: foam skin, polyolefin, 0.98±0.02 mm OD.
- Two Control Wires Conductor: stranded bare copper, 7 x 0.16 mm (26 AWG) Insulation: solid polyolefin, 0.78±0.02mm outer diameter, colored red.
- Pair Construction Four pairs, each pair wrapped in polyester-aluminum foil (metal face outward), providing 100% coverage.
- Pair Color Codes (2 wires/pair) Blue/white, orange/white, green/white, brown/white.
- Pair Arrangement Four pairs cabled together around the control wire.
- Overall Shield Tinned-copper braid (providing 65% minimum coverage), laid in close contact with a 26 AWG stranded, tin-plated, copper drain wire.
- Overall Diameter 6.0±0.2 mm.
- Outer Sheath White soft LSZH compound, with black printing.

Part #	Description
R61110XX	PatchView+ Jumper, Cat6A, S/FTP, I/C

# PatchView+ Xlight Fiber Cassette Tray

## Description

The PatchView+ Fiber Tray allows you to build a modular architecture using fiber optics. The PatchView+ Fiber Tray supports mixed cross-connect and interconnect network topologies. The PatchView+ Fiber Tray supports two types of fiber patching options: LC-LC and LC-MPO cassettes – SM and MM.

The PatchView+ Fiber Tray is a SMART, high-end fiber optics-managed tray that supports up to 96 LC-LC fiber strands along with a full management system. Devided to up to four LC/MPO or LC/LC cassettes. (sold seperately)



## Features

- Supports a simple, modular architecture with up to four cassettes; each cassette with 24 ports
- Supports 96 ports in 1U format for LC, MPO, splitter/ pigtail cassette installation
- Provides two external contacts on each port for smart device ID reading
- Provides an individual LED on each port, which assists in visual monitoring and maintenance
- Provides a unique smart ID to each of the four cassettes and internal PCB for system-wide identification and determination of cassette position within the chassis

## Specifications

### LED Indicators

### Dimensions and Weight

- Height: 44.45 mm (1.75 in./1U)
- Width: 482.6 mm (19 in.) (front panel to rear)
- Depth: 241.3 mm (9.5 in.)
- Weight: 3.4 Kg (7.5 lb.)

### Environmental Conditions

- Operating Temperature: 0–50°C (32–122°F)
- Humidity: 0-90% non-condensing

Part #	Description
R6021020	PatchView+ Fiber 96 Tray



# PatchView+ Xlight LC-LC Cassette

## Description

The PatchView+ LC-LC Cassette is a part of the PatchView+ Fiber Tray high-density solution. When configured with the PatchView+ system, the cassettes offer the option of real-time physical network management.

Each cassette supports:

- 12 x Fiber ports (that is, 24 fibers)
- 1 x Push button for manual port scanning
- 1 x Dual color (red and green) Cassette LED, which turns green when being monitored and red when not being monitored

The cassettes, which can be individually mounted on the fiber tray, providing users with maximum flexibility in terms of configuration of the numbers of ports.



## Features

- Supports 12 duplex LC adapters, that is, 24 fibers in each cassette
- Support up to four cassettes in 1U of rack space, providing up to 96 fibers in 1U of rack space
- Support Single-Mode and Multi-Mode adapters
- Include an external 20-pin PatchView+™ connector that makes it a plug-and-play panel

## Specifications

### Interface

- Front connection (patch cord side)
- 2 x LC duplex adapters
- Back connection (cabling side)
- 12 x LC duplex adapters
- Connection to PatchView+ System

### LED Indicators

- Port LEDs
  - One pair of LEDs for each port on the front panel (that is, one LED for each fiber).
  - LEDs show the status of ports.
  - The port LEDs can be activated by command from the network management station

### Dimensions and Weight

- Height: 42.5 mm (1.7 in.)
- Width: 105.0 mm (4.1 in.)
- Depth: 30.0 mm (1.2 in.) (front panel to rear)
- Weight: 150 grams (5.3 oz.) (with adapters and packaging)

### Environmental Conditions

- Operating Temperature: 0 to 50°C / 32 to 122° F
- Storage Temperature: -40 to 85°C / -40 to 185° F
- Humidity: Up to 90% non-condensing

### Standards

- EN 55022, Class B (Europe) compliant
- FCC Part 15, subpart J, Class A (USA) compliant

Part #	Description
R6021032	PatchView+ LC Cassette, MM, Ceramic
R6021033	PatchView+ LC Cassette, SM

# PatchView+ Xlight LC-MPO Cassette

## Description

The PatchView+ LC-MPO Cassette is a part of the PatchView+ Fiber Tray high-density solution. When configured with the PatchView+ system, the cassettes offer the option of real-time physical network management.

The cassettes, can be individually mounted on the panel, providing users with maximum flexibility in terms of configuration of the numbers of ports.

Each cassette supports:

- 12 x LC Fiber ports (front)
- 2 x MPO adapters (back)
- Fiber Polarity according to TIA 568C.3 Method \*
- 1 x Push button for manual port scanning
- 1 x Dual color (red and green) Cassette LED, which turns green when being monitored and red when not being monitored

## Features

- Supports 12 duplex LC adapters, on the front and two MPO adapters on the back
- Support up to four cassettes in 1U of rack space, providing up to 96 fibers in 1U of rack space
- Support Single-Mode and Multi-Mode adapters
- Include an external 20-pin PatchView+™ connector that makes it a plug-and-play panel
- Supports both PatchView+ and non-PatchView+ options

## Specifications

### Interface

- Front connection (patch cord side)  
12 x LC duplex adapters (MM or SM)
- Back connection (cabling side)  
2 x MPO adapters
- Connection to PatchView+ System



### LED Indicators

- Port LEDs
  - One pair of LEDs for each port on the front panel (that is, one LED for each fiber).
  - LEDs show the status of ports.
  - The port LEDs can be activated by command from the network management station

### Performance

- Attenuation
  - Less than 0.5dB (full set of performance test is attached to each cassette)

### Dimensions and Weight

- Height: 42.5 mm (1.7 in.)
- Width: 105.0 mm (4.1 in.)
- Depth: 30.0 mm (1.2 in.) (front panel to rear)
- Weight: 150 grams (5.3 oz.) (with adapters and packaging)

### Environmental Conditions

- Operating Temperature: 0 to 50°C / 32 to 122° F
- Storage Temperature: -40 to 85°C / -40 to 185° F
- Humidity: Up to 90% non-condensing

### Standards

- EN 55022, Class B (Europe) compliant
- FCC Part 15, subpart J, Class A (USA) compliant

Part #	Description
R6021062	PatchView+ LC-MPO Cassette, OM4, Ceramic
R6021063	PatchView+ LC-MPO Cassette, SM

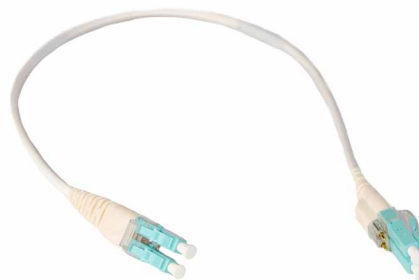
# Patch View+ LC-LC Xlight Cross-Connect Cords

## Description

PatchView+ LC-LC Patch Cords support PatchView+ topologies and as stand-alone cord.

Cords are designed for Single-Mode and Multi-Mode applications at 10G/40G/100Gbps.

The cord includes fiber plug interface with two external pins on both ends (no copper wires are present).



## Features

- Designed for PatchView+ application and as stand-alone cord
- Comprised of two 0.6 mm LS0H tight buffer fibers cable
- Available with two fiber types – Single-Mode and Multi-Mode 50/125 OM4
- Multi-Mode models are colored White and Single-Mode models are colored Blue

## Specifications

### Construction

- **Jacket**  
Multi-Mode colore - White  
Single-Mode colore - Blue.
- **LSZH**  
Constructed of an aramid yarn fiber reinforced halogen-free compound material. The compound is specifically formulated to be fire retardant and, when exposed to high temperatures, emits non-toxic, non-corrosive gases (halogen-free) and low amounts of smoke.

Flame Retardant  
Smoke Emission  
Acid Gas Emission

Complying to IEC 60332-3C  
Complying to IEC 61034  
Complying to IEC 60754

### Standards

The Jumper meets the requirements of ANSI/TIA/EIA-568-C.3

### Flammability Tests

IEC 60332-3C, IEC 61034, IEC 60754

Part #	Description
R6135020	PatchView+ Cord, LC, OM4, C/C, 2m
R6135030	PatchView+ Cord, LC, OM4, C/C, 3m
R6135050	PatchView+ Cord, LC, OM4, C/C, 5m
R6135100	PatchView+ Cord, LC, OM4, C/C, 10m
R6136020	PatchView+ Cord, LC, SM, C/C, 2m
R6136030	PatchView+ Cord, LC, SM, C/C, 3m
R6136050	PatchView+ Cord, LC, SM, C/C, 5m
R6136100	PatchView+ Cord, LC, SM, C/C, 10m

# Patch View+ LC-LC Xlight Inter-Connect Jumpers

## Description

PatchView+ LC-LC Patch Cords support interconnect topologies and as stand-alone cord.

Cords are designed for Single-Mode and Multi-Mode applications at 10G/40G/100Gbps.

Interconnect topology includes one smart ID Key at the switch side. The cord includes fiber plug interface with two external pins on both ends (additional two copper wires are present).



## Features

- Designed for PatchView+ application and as stand-alone cord
- Comprised of two 0.6 mm LS0H tight buffer fibers cable with two control 28AWG wires
- Available with two fiber types – Single-Mode and Multi-Mode 50/125 OM4
- Multi-Mode models are colored aqua and Single-Mode models are colored yellow

## Specifications

### Construction

- **Jacket**  
Multi-Mode color - Aqua  
Single-Mode color - Yellow.
- **LSZH**  
Constructed of an aramid yarn fiber reinforced halogen-free compound material. The compound is specifically formulated to be fire retardant and, when exposed to high temperatures, emits non-toxic, non-corrosive gases (halogen-free) and low amounts of smoke.

Flame Retardant	Complying to IEC 60332-3C
Smoke Emission	Complying to IEC 61034
Acid Gas Emission	Complying to IEC 60754

### Standards

The Jumper meets the requirements of ANSI/TIA/EIA-568-C.3

### Flammability Tests

IEC 60332-3C, IEC 61034, IEC 60754

Part #	Description
R6131020	PatchView+ Jumper, LC, OM4, I/C, 2m
R6131030	PatchView+ Jumper, LC, OM4, I/C, 3m
R6131050	PatchView+ Jumper, LC, OM4, I/C, 5m
R6131100	PatchView+ Jumper, LC, OM4, I/C, 10m
R6132020	PatchView+ Jumper, LC, SM, I/C, 2m
R6132030	PatchView+ Jumper, LC, SM, I/C, 3m
R6132050	PatchView+ Jumper, LC, SM, I/C, 5m
R6132100	PatchView+ Jumper, LC, SM, I/C, 10m

# PatchView+ Xlight MPO 24 Tray

## Description

The PatchView+ Xlight MPO 24 Tray is a high-density fiber optic panel that offers a real-time physical network management option via PatchView+ system. The Tray supports a unique PatchView+ Xlight MPO Jumper as the patching interface. To connect the horizontal and trunk cables, the Tray employs the MPO adapter. When used together, they provide rapid installation with high optical port density to meet growing market demands.



## Features

- Supports 24 MPO adapters in 1U installation format
  - Compatible with 10G, 40G, and 100G IEEE 802.3 applications
- Supports pull-out drawer for easy access to the fiber cables
- Supports configurable rack mounting brackets for recessed panel mounting and enhanced cable protection
- Includes a socket for the scanning Card, enabling ID scanning
- Provides two external contacts on each port for smart ID device reading
- Supports indicator LEDs that guide technicians while performing Moves, Adds, and Changes (MACs)

## Specifications

### Tray Interfaces

- Front (patch cord side)
  - 24 MPO adapters
  - PatchView+ scanning contacts
- Back (cabling side)
  - 24 MO adapters
- To PatchView+ System
  - Each tray includes a socket for a scanner Card

### Cable Routing and Storage

- Cable entry
  - Two rear cutouts are provided
  - One cable gland
- Cable fixing
  - Cables are fixed using cable-ties through round holes provided adjacent to the cable entry cutouts
- Strain relief
  - Strain relief saddles provide strain relief within the panel
- Cable management clips
  - Four fiber cable management clips are included to aid in storage of excess cable without exceeding the minimum bend radius

### Dimensions and Weight

- Height: 44.45 mm (1.75 in./1U)
- Width: 482.6 mm (19 in.)
- Depth: 241.3 mm (9.5 in.)
- Weight: 3.7 Kg (8.2 lb.)

### Environmental Conditions

- Operating Temperature: 0 to 50°C (32 to 122°F)
- Storage Temperature: -40 to 85°C
- Humidity: 0-90% non-condensing

### Standards

- EN-55022, Class B (Europe) compliant
- FCC Part 15, subpart J, Class A (USA)

Part #	Description
R6021040	PatchView+ MPO 24 Tray, MM
R6021041	PatchView+ MPO 24 Tray, SM

# PatchView+ Cross-Connect Xlight MPO Cords

## Description

PatchView+ LC-LC Patch Cords support PatchView+ topologies and as stand-alone cord.

Cords are designed for Single-Mode and Multi-Mode applications at 10G/40G/100Gbps.

The cord includes fiber plug interface with two external pins on both ends (no copper wires are present).



## Features

- Designed for PatchView+ applications
- Connectors are compliant with FOCIS-5D standard
- Fully compatible with 40G and 100G\* IEEE 802.3 applications
- The Jumpers are comprised of 12 tight buffer fibers
- Multi-Mode models are provided with an Aqua colored cable and Single-Mode models are colored Yellow
- Available in several lengths

## Specifications

### Construction

- **Cable Jacket**  
Multi-Mode models are colored white and Single Mode models are colored blue (RAL 5015).
- **LSZH (HFFR)**  
Constructed of an aramid yarn fiber reinforced halogen-free compound material. The compound is specifically formulated to be fire retardant, and when exposed to high temperatures, emits non-toxic, non-corrosive gases (halogen-free) and low amounts of smoke.

Flame Retardant	Complying to IEC 60332-3C
Smoke Emission	Complying to IEC 61034
Acid Gas Emission	Complying to IEC 60754

### Printing

F/O MPO CABLE 12 FIBERS [(SM 9/125) / (OM4 50/125)]  
TIGHT BUFFER LSZH [ ] METER [+Batch No.]

### Standards

The Jumper meets the ANSI/TIA/EIA-568-C.3 requirements.

### Flammability Tests

IEC 60332-3C, IEC 61034, IEC 60754

Part #	Description
R6137020	PatchView+ Cord, MPO, OM4, Uper IL, C/C, 2m
R6137030	PatchView+ Cord, MPO, OM4, Uper IL, C/C, 3m
R6137050	PatchView+ Cord, MPO, OM4, Uper IL, C/C, 5m
R6138020	PatchView+ Cord, MPO, SM, Uper IL, C/C, 2m
R6138030	PatchView+ Cord, MPO, SM, Uper IL, C/C, 3m
R6138050	PatchView+ Cord, MPO, SM, Uper IL, C/C, 5m



# PatchView+ Copper Smart ID Key

## Description

The PatchView+ Copper Smart ID Key is a unique solution for providing IDs for all ports located on switches.

The Smart ID Key enables real-time monitoring and updating of changes in the patch cord configurations.



## Features

- Contains a unique ID number for system-wide identification
- Contains a red LED
- Supported only by RiT's PatchView+ interconnect cords

## Specifications

<b>LED Indicator</b>		
• Communications		
RED Blinking	Alerts that a task is to be accomplished	
RED Steady state	Indicates a manual port scan is in progress	
<b>General</b>		
• Environment		
Temperature	0 - 50°C	
Humidity	Up to 90% non-condensing	
<b>Standards</b>		
• IEC 60603-7		
Compliant		

Part #	Description
R6200310	PatchView+ Copper ID Key

# PatchView+ Fiber ID Key

## Description

The PatchView+ Fiber ID Key is a unique solution for providing IDs to all LC duplex ports located on switches. The ID Key enables real-time monitoring and update of changes in the patch cord configurations.

The PatchView+ ID Key contains a unique ID number for system-wide physical port identification, both for Interconnect and Cross-connect topologies.



## Features

Contains a unique ID number for system-wide identification

- Contains a red LED
- Supported only by RiT's PatchView+ interconnect cords
- MM (50µm) and SM models available
- Less than 0.2dB IL

## Specifications

### Construction

- Color coding
  - Multi-Mode models are colored aqua color
  - Single Mode models are colored blue color

### Standards

- Complies with ANSI/TIA/EIA-568-C.3
- Flammability – UL94V0

Part #	Description
R6200320	PatchView+ Fiber ID LC MM Key
R6200330	PatchView+ Fiber ID LC SM Key

# PatchView+ ID Key Readers

## Description

The PatchView+ ID Key Reader enables to build up the ID key database of the Switch modules & ports.  
The ID Key enables real-time monitoring and update of changes in the patch cord configurations.



## Features

- Builds the ID database of the Switch modules & ports
- During Learning Mode will be connected to the Tablet
- At the end of the process the database needs to be uploaded to CenterMind Software
- Supports LC duplex connector & RJ-45 (different models as may be seeing in Figures above)

## Specifications

### Interface

- LC duplex or RJ-45 male connectors
- Mini USB for tablet connection

### LED Indicators

- Communications LED (Green)
  - Green – communication link with tablet

### Environmental Conditions

- Temperature: 0-50°C
- Humidity: Up to 90% non-condensing

Part #	Description
R6200131	PatchView+ Copper ID Reader
R6200140	PatchView+ Fiber ID Reader

# Rack Indicator

## Description

The Rack Indicator is connected to the PatchView+ Environment Controller. This indicator is mostly be assembled on the top of the rack and mainly be used, along with the PatchView+ system in large communication rooms.

The PatchView+ Environment Controller will send an electrical signal to the Rack Indicator whenever a LED is lit on any port of any port in any PatchView+ panel in a specific Rack. By that the Rack Indicator will guide the technician to the specific Rack.



## Specifications

Operating Current	60mA/45mA
Operating Voltage	12/24V DC
Power	1 Watt
Color	Amber
Flash Rate	1Hz
Operating Temp.	-20°C to 40°C
Material	Polycarbonate lens & UV stabilized polycarbonate/ABS body and base
Weight	138gr

Part #	Description
R3825020	Rack Indicator

# Copper Patch Panels



The RiT SMART Cabling™ System offers an extensive range of comprehensive solutions for enterprise cabling needs. RiT's cabling products support the fastest possible throughput, streamline cabling installation and maintenance, and enhance network continuity – maximizing control of the entire physical infrastructure. Using RiT's SMART Cabling System, companies achieve maximum performance from their networks.

RiT's robust SMART Cabling System exceeds all industry standards. All components and links undergo meticulous independent testing to ensure full compliance and uncompromising quality. The system includes an exceptionally broad range of options for every component - UTP, FTP and STP copper cabling, as well as Single-Mode and Multi-Mode fiber optic cabling supporting LC, SC and MPO solutions.

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# SMART Modular Keystone 24 Copper Frame

## Features

- Modular design, models accommodate up to 24 UTP or STP keystone-type jacks in 1U
- Simple assembly and installation, jacks are terminated separately and then mounted onto the panel
- Models incorporating RiT SMARTen, CLASSix & Giga Jacks
- Transparent labels holders
- Different jacks may be mixed on the same panel

### SMARTen™

RiT SMARTen STP Patch Panels are part of the RiT SMARTen Cabling System™, featuring Category 6A performance. The system is designed to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2007) for Category 6A/CLASS E<sub>A</sub>.

### SMART CLASSix

RiT SMART CLASSix™ Jacks are part of the RiT SMART CLASSix Cabling System™, featuring Category 6 performance. The system is designed to conform to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2002) for Category 6/Class E.

### SMART-Giga

Patch panels incorporating RiT Giga Jacks are part of the RiT SMART Giga™ Cabling System, featuring enhanced Category 5 performance. The system is designed to support protocols running at up to 1,000 Mbps, such as ATM 622 Mbps and Gigabit Ethernet.



- **Capacity**  
Accepts up to 24 SMARTen, CLASSix & Giga Jacks.
- **Cable Clamping**  
Cable retention tray enhances cable strain relief
- **Physical**

Height	44.4 mm / 1.75" (1U)
Width	482.6 mm / 19"
Tray	105 mm (4.13")
Weight with Cable Retention Tray	0.7 kg
- **Material**  
Aluminum with Plastic (UL 94V-0) covers
- **Colors**  
Black background with gray silk screened markings
- **Environment**

Temperature Storage:	-40° to 85°C
Operational:	-10° to 60°C
Humidity	0-90% non-condensing
- **Standards**  
Conforms to IEC-60603-7 (603-7) for keystone-type, snap-on apertures

Part #	Description
R3735081B	Keystone Panel, UTP, 24
R3735082B	Keystone Panel, STP, 24



# Modular Keystone 48 HD Patch Panels

**SMARTen**  
WARRANTY

**CAT-6A**

## Features

- Modular design, models accommodate up to 48 STP HD RiT's keystone-type jacks in only 1U
- Simple assembly and installation, jacks are terminated separately and then mounted onto the panel
- Transparent labels holders
- Including 18 AWG grounding wire
- SMARTen™HD Keystone Jack
- RiT SMARTen STP HD keystone Jack is part of the RiT SMARTen Cabling System™, featuring Category 6A performance. The system is designed to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2007) for Category 6A/CLASS E<sub>A</sub>



## SMARTen™

RiT SMARTen STP Patch Panels are part of the RiT SMARTen Cabling System™, featuring Category 6A performance. The system is designed to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2007) for Category 6A/CLASS E<sub>A</sub>

## General

- **Capacity**  
Accepts up to 48 RiT's SMARTen STP HD Ketone Jacks.
- **Cable Clamping**  
Cable retention tray enhances cable strain relief
- **Physical**  
**48 Ports**  
Height 44.4 mm / 1.75" (1U)  
Width 482.6 mm / 19"  
Tray 105 mm (4.13")  
Weight 0.9 kg

- **Material**  
Steel, 1.5 mm width  
Plastic 94V-0
- **Colors**  
Black background with gray silk screened markings
- **Environment**  
Temperature Storage: -40° to 85°C  
Operational: -10° to 60°C  
Humidity 0-90% non-condensing
- **Standards**  
Conforms to IEC-60603-7 (603-7) for keystone-type, snap-on apertures

Part #	Description
R2801611	Modular Keystone HD 48 Patch Panel
R2800212	SMARTen STP HD keystone

# SMARTen 48 Patch Panels with Patching Switches

**SMARTen**  
WARRANTY

**CAT-6A**

## Features

- Dramatically reduce the need for patch cords in normal use by integrating internal mounted internal patching switches
- A unique innovative technology connects between each two vertical ports; Patch Cord is needed only to connect non vertical ports
- Models for shielded or unshielded cabling systems
- High performance panels that support Category 6A performance specifications up to 500 MHz
- Special cap design for minimizing Alien Cross-Talk
- Simple labor-saving termination using standard 110 & Krone termination tools
- Backward compatible with Category 5e and Category 6 cabling standards
- Compatible with 22-26 AWG Solid or stranded wire cables
- High durability and reliability

## Interface

### Patching Switches

24 Patching Switches for internal inside patching. When patch cord is not inserted – each two upper and lower ports are connected. When patch cord is inserted - upper and lower ports are disconnected. Eight wires and the ninth scanning wire of each port are simultaneously switched.

## Electrical Specifications

### Category 6A

#### Standard Performance Requirements

- Conforms to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2002) for Category 6A/Class EA.
- Meets all link and channel requirements
- UL 1836 listed



## General

- **Physical**  
Height: 88.10 mm / 1.76" (2U)  
Width: 482.6 mm / 19"  
Depth: 56.10 mm / 2.2"  
Retention Fixture: 89.10 mm / 3.5"  
Weight: 0.7kg
- **Material**  
Steel
- **Colors**  
Black background with gray silk screened markings
- **Environment**  
Temperature Storage: -40° to 85°C  
Operational: -10° to 60°C  
Humidity 0-90% non-condensing
- **Compliance with International EMC Standards:**  
The SMARTen line of patch panels is designed to comply with EN-55022, Class A (Europe) and FCC Part 15, Subpart J, Class A (USA).

Part #	Description
R3244000	SMARTen UTP Panel, 48, Switches
R3244010	SMARTen STP Panel, 48, Switches

# SMART CLASSix 48 UTP Patch Panels

SMART  
CLASSix  
WARRANTY

## with Patching Switches

CAT-6

### Features

- Dramatically reduce the need for patch cords in normal use by integrating internal mounted internal patching switches
- A unique innovative technology, for connecting each two vertical ports to each other. Usage of patch cord is only needed for connecting non vertical ports.
- Compatible to Unshielded Twisted Pairs (UTP) cabling systems
- High performance panel that supports Category 6 performance specifications up to 250 MHz
- Conforms to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2002) for Category 6/Class E
- Simple, labor saving assembly and installation
- Enhanced cable retention fixture
- Supports 48 ports, using 2U of rack space
- Compatible with 22-26 AWG solid or stranded wire cables
- High durability and reliability
- Patent pending



### General

- **Physical**  
Height: 88.10 mm / 1.76" (2U)  
Width: 482.6 mm / 19"  
Depth: 56.10 mm / 2.2"  
Retention Fixture: 89.10 mm / 3.5"  
Weight: 0.7kg
- **Material**  
Steel
- **Colors**  
Black background with gray silk screened markings
- **Environment**  
Temperature Storage: -40° to 85°C  
Operational: -10° to 60°C  
Humidity 0-90% non-condensing
- **Compliance with International EMC Standards:**  
The SMART CLASSix UTP 48 line of patch panels is designed to comply with EN-55022, Class A (Europe) and FCC Part 15, Subpart J, Class A (USA).

### CLASSix™

RIT SMART CLASSix UTP Patch Panels are part of the RIT SMART CLASSix CablingSystem™, featuring Category 6 performance. The system is designed to Conforms to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2002) for Category 6/Class E

Part #	Description
R3241000	SMART CLASSix UTP Panel, 48, Switches

# SMART CLASSix 48 STP Patch Panels

SMART  
CLASSix  
WARRANTY

## with Patching Switches

CAT-6

### Features

- Dramatically reduce the need for patch cords in normal use by integrating internal mounted internal patching switches
- A unique innovative technology, for connecting each two vertical ports to each other. Usage of patch cord is only needed for connecting non vertical ports.
- Meets the transfer impedance standard requirement
- Compatible to Shielded Twisted Pairs (STP) cabling systems
- High performance panel that supports Category 6 performance specifications up to 250 MHz
- Conform to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2002) for Category 6/Class E
- Simple, labor saving assembly and installation
- Enhanced cable retention fixture
- Supports 48 ports, using 2U high of rack space
- Compatible with 22-26 AWG Solid or stranded wire cables
- High durability and reliability



### General

- **Physical**  
Height: 88.10 mm / 1.76" (2U)  
Width: 482.6 mm / 19"  
Depth: 56.10 mm / 2.2"  
Retention Fixture: 89.10 mm / 3.5"  
Weight: 1.1 kg
- **Material**  
Steel
- **Colors**  
Black background with gray silk screened markings
- **Environment**  
Temperature Storage: -40° to 85°C  
Operational: -10° to 60°C  
Humidity 0-90% non-condensing
- **Compliance with International EMC Standards:**  
The SMART CLASSix UTP 48 line of patch panels is designed to comply with EN-55022, Class A (Europe) and FCC Part 15, Subpart J, Class A (USA).

### CLASSix™

RiT SMART CLASSix STP Patch Panels are part of the RiT SMART CLASSix Cabling System™, featuring Category 6 performance. The system is designed to Conform to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2002) for Category 6/Class E.

Part #	Description
R3241010	SMART CLASSix STP Panel, 48, Switches

# SMART CLASSix UTP 24 Angled Patch Panel

SMART  
CLASSix  
WARRANTY

CAT-6

## Features

- Support 24 ports per 1U
- Jacks are positioned in angled shape for improving patch cord bend
- radius and supports high density rack configuration
- Easy termination
- High performance panels that supports all Category 6 connecting hardware performance specifications up to 250 MHz
- Conform to ANSI/TIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2002) for Category 6/Class E.
- Simple labor-saving termination using standard 110 termination tool
- Enhanced cable retention fixture
- High durability and reliability
- Back Interconnection (cabling side) 24 eight-position termination blocks; accept 22-24 AWG wires. Rated for up to a minimum of 200 re termination cycles. Comply with 110 termination tool.



## General

- **Physical**  
Height: 44.2 mm / 1.74" (1U)  
Width: 482.6 mm / 19"  
Depth: 35.0 mm / 1.375"  
Retention Fixture: 89.15 mm / 3.5"  
Weight: 0.9kg
- **Material**  
Steel
- **Colors**  
Black background with gray silk screened markings
- **Environment**  
Temperature Storage: -40° to 85°C  
Operational: -10° to 60°C  
Humidity: 0-90% non-condensing

Part #	Description
R3919010	SMART CLASSix UTP Panel, Angled, Cable Retention

# Install & Go Keystone Cassette Panel

SMARTen  
WARRANTY

CAT-6A

## Features

- Six fully shielded SMARTen Keystones at each end of the trunk cable assembly
- Six Category 6A, U/FTP LSZH cables, individually jacket coated and jacket overall,
- provide the ultimate flexibility for any rack installation
- Four cable assemblies can be connected to each 19" copper frame
- Cable assembly comply with Permanent Link specifications, ANSI/TIA-568C.2
- ISO 11801 Category6A/Class E<sub>A</sub> 2.1 edition for supporting 10GBase-T requirements
- Suitable for high-density installation
- 100% factory tested (results attached to each trunk cable assembly)
- RoHs compliant

## Trunk Cable Assemblies

- **Lengths**  
Any length between 5 - 90 meters  
For other lengths please contact your local distributor.
- **Cable Diameter**  
Overall: 26 mm nominal  
Each cable: 7.6 mm nominal

## Copper Frame

- **Capacity**  
Accepts up to 4 trunk cable assembly, total of 24 ports
- **Cable Clamping**  
Cable retention tray enhances cable strain relief



- **Physical**  
Height 44.4 mm / 1.75" (1U)  
Width 482.6 mm / 19"  
Tray 105 mm (4.13")  
Weight 0.35 kg (0.73 lb)  
Weight with Cable Retention  
Tray 0.33 kg (0.73 lb)
- **Material**  
Aluminum with Plastic (UL 94V-0) covers
- **Temperature Ranges**  
Storage: -40° to +70°C  
Operation: -10° to +60°C
- **Humidity**  
0 - 90% non-condensing

# Install & Go Keystone Cassette Panel


**CAT-6A**

Part #	Description
R4585050	Install & Go SMARTen Trunk Cable Assembly, STP, 5.0m
R4585060	Install & Go SMARTen Trunk Cable Assembly, STP, 6.0m
R4585070	Install & Go SMARTen Trunk Cable Assembly, STP, 7.0m
R4585080	Install & Go SMARTen Trunk Cable Assembly, STP, 8.0m
R4585090	Install & Go SMARTen Trunk Cable Assembly, STP, 9.0m
R4585100	Install & Go SMARTen Trunk Cable Assembly, STP, 10.0m
R4585110	Install & Go SMARTen Trunk Cable Assembly, STP, 11.0m
R4585120	Install & Go SMARTen Trunk Cable Assembly, STP, 12.0m
R4585130	Install & Go SMARTen Trunk Cable Assembly, STP, 13.0m
R4585140	Install & Go SMARTen Trunk Cable Assembly, STP, 14.0m
R4585150	Install & Go SMARTen Trunk Cable Assembly, STP, 15.0m
R4585200	Install & Go SMARTen Trunk Cable Assembly, STP, 20.0m
R4585250	Install & Go SMARTen Trunk Cable Assembly, STP, 25.0m
R4585300	Install & Go SMARTen Trunk Cable Assembly, STP, 30.0m
R4585350	Install & Go SMARTen Trunk Cable Assembly, STP, 35.0m

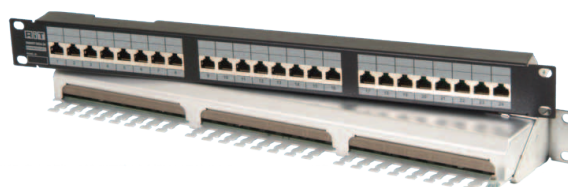
# SMART Giga 24 Patch Panels - Vertical

SMART  
GIGA  
WARRANTY

CAT-5E

## Features

- Simple labor saving assembly and installation
- Excellent provisions for terminating shielded cables
- Sealed casing for superior EMI/RFI protection
- Conform to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2002) for Category 5e/Class D
- Models for STP or UTP cabling systems
- Compatible with 22-26 AWG solid or stranded wire cables
- Two cable termination options: eight-position 110 blocks or Krone blocks
- Provisions for cable routing and clamping with T-shaped anchors and cable-ties at the rear
- Special grounding channels for improved cable grounding
- High durability and reliability



- 24 eight-position KRONE LSA-PLUS blocks, accept 22 to 26 AWG wires solid or stranded. Rated for up to a minimum of 200 re-termination cycles. \

## General

- **Physical**  
Height: 44.1 mm / 1.74" (1U)  
Width: 482.6 mm / 19"  
Depth: 130.0 mm / 5.11"  
Weight: 1.2kg (2.6 lb)
- **Material**  
Aluminum
- **Colors**  
Black background with gray silk screened markings
- **Environment**  
Temperature Storage: -40° to 85°C  
Operational: -10° to 60°C  
Humidity 0-90% non-condensing
- **Compliance with International EMC Standards:**  
The SMART Giga 24 line of patch panels is designed to comply with EN-55022, Class A (Europe) and FCC Part 15, Subpart J, Class A (USA)

## SMART-Giga™

SMART-Giga 24™ Patch Panels are part of the RiT SMART-Giga Cabling System™, featuring enhanced Category 5 performance. The system is designed to support protocols running at up to 1000 Mbps, such as ATM 622 Mbps and Gigabit Ethernet.

## Interface

### Front Interconnection (patch cords side)

24 eight or ten-position RJ-45 modular jacks, shielded or unshielded as specified by customer.

### Back Interconnection (cabling side)

Two connector options as specified by customer:

- 24 eight-position 110 IDC blocks, accept 22 to 26 AWG wires, solid or stranded. Rated for up to a minimum of 200 re-termination cycles.

Part #	Description
R3801010	SMART Giga STP Panel, 24, Vertical, 110
R3801020	SMART Giga STP Panel, 24, Vertical, Krone



# SMART Giga 24 UTP Patch Panels


**CAT-5E**

## Features

- UTP 24 - 1U high - 24 ports
- High performance, supports 100 MHz data rates
- Conform to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2002) for Category 5e/Class D
- Cable termination using 110 Block termination tool
- Compatible with 22-26 AWG solid or stranded wires
- Models with optional cable retention fixture for enhanced strain relief and cable management available
- High durability and reliability



## General

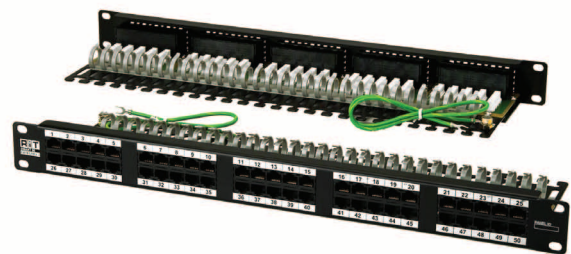
- **Physical**  
Height: 44.1 mm / 1.74" (1U)  
Width: 482.6 mm / 19"  
Depth: 35.0 mm / 1.375"  
Depth with Cable Retention  
Fixture: 91.0 mm / 3.58"  
Weight: 0.46 Kg (1.0 lb)
- **Material**  
Aluminium
- **Colors**  
Black background with gray silk screened markings
- **Environment**  
Temperature Storage: -40° to 85°C  
Operational: -10° to 60°C  
Humidity: 0-90% non-condensing

Part #	Description
R3881124	SMART Giga UTP Panel, 24, 110

# Category 3 UTP 50 Port Patch Panel

## Features

- Simple labor saving assembly and installation
- High Density: supports 50 ports, using 1U of rack space
- Compatible with 22-26 AWG
- Enhanced cable retention fixture
- High durability and reliability



## Interface

### Front Interconnection (patch cords side)

50 eight position unshielded RJ-45 modular jacks.

### Back Interconnection (cabling side)

25 eight-position blocks, accept 22 to 26 AWG wires. Each fourth position of the eight position block, is connected to upper / lower front jacks, using Krone's termination tool. Rated for up to a minimum of 200 re-termination cycles.

## General

- **Physical**  
Height: 44.1 mm / 1.74" (1U)  
Width: 480.0 mm / 19"  
Depth: 128.3 mm / 5.07"  
Weight: 1.4 Kg (3.1 lb)
- **Material**  
Steel
- **Colors**  
Black background with gray silk screened markings
- **Environment**  
Temperature Storage: -40° to 85°C  
Operational: -10° to 60°C  
Humidity 0-90% non-condensing

Part #	Description
R3260030	Category 3 UTP Panel, 50 Ports

## Patch Cord Organizers (1U and 2U)

### Features

Patch Cord Organizers may be used with all types of Patch Panels and Rack Mount products. They mount on standard 19" racks or cabinets and provide a simple, orderly means of organizing patch cords. The integral brackets, available in both 95mm and 55mm depths, are split in front to allow cables and cords to be easily inserted or removed, without having to be threaded through a closed bracket. Organizers are available in 1U and 2U sizes.



Part #	Description
R3735061	Patch Cord Organizer, 95mm, 1U
R3735062	Patch Cord Organizer, 95mm, 2U
R3735066	Patch Cord Organizer, 55mm, 1U
R3735067	Patch Cord Organizer, 55mm, 2U

## Fast Termination Tool

### Features

- Just one simple squeeze of the handle, seats and terminates all wires right off. With the replaceable cutting module design, it provides the longer tool life and also saves your cost
- Design keeps the wires fixed on the terminal projecting portion before termination.



Part #	Description
R3735016	Fast Termination Tool Cat 6A STP + UTP Connecting Hardware

## Accessories for Copper Cabling Connecting Hardware

### Assembly Fixture

A unique assembly fixture designed to support a patch panel during installation. Constructed of two separate holding brackets, the assembly fixture is compact and can be easily stowed in a toolbox.

### Cable Organizer with Brush

The Cable Organizer with Brush is designed to organize and manage cables extending from the rear of the cabinet, such as from the back of Patch Panels, and connecting to the front of networking equipment, such as a hub. Compact in size, only 1U, this organizer features a central opening with brush-like hairs which keep dust and particles from entering the rack. Two side brackets are used for cable routing. The brackets are split in front to allow cables and cords to be easily inserted or removed, without having to be threaded through a closed bracket.

### Vertical Patch Cord Organizers

Vertical Patch Cord Organizers can be mounted on the frame of racks and cabinets, providing an orderly means of vertically running cables and cords.

### 110 Block Termination Tool

The 110 Block Termination Tool terminates 22 to 26 AWG wires on 110 blocks. The tool is spring-loaded and fully adjustable.

### KRONE Block Termination Tool

The Krone Block Termination Tool terminates 22 to 26 AWG wires on all LSA-PLUS block models. The tool is spring loaded and has an integrated extractor hook and screwdriver.

### Cable Ties Kit

These cable ties are recommended for securing cables to anchors on RiT's Patch Panels.



110 Block Termination Tool



Assembly Fixture



KRONE Block Termination Tool



Cable Organizer with Brush



Vertical Patch Cord Organizers

Part Number	Description
<b>Assembly Fixture</b>	
R3805000	Assembly Fixture
<b>Cable Organizer with Brush</b>	
R3735065	Patch Cord Organizer, 1U, Brush
<b>Vertical Patch Cord Organizer</b>	
R3735060	Vertical Patch Cord Organizer (Packaged two per polybag)
<b>110 Block Termination Tool</b>	
R3735011	110 Block Termination Tool
<b>Krone Block Termination Tool</b>	
R3735010	Krone Block Termination Tool
<b>Cable Ties Kit</b>	
R3735020	Cable Ties Kit (50 pcs)

# Communication Outlets for Copper Cabling



RiT offers a full range of communication outlets, meeting premise wiring standards for North America, Latin America, Europe, Asia and Africa. SMARTen™ models feature Category 6A performance for 10 Giga, advanced SMART CLASSix™ models feature Category 6 performance and SMART Giga™ models feature Enhanced Category 5 performance.

Communication outlets for copper cabling are available in shielded and unshielded designs. This comprehensive line includes surface mount designs, external wall boxes and a variety of keystone-type outlets.

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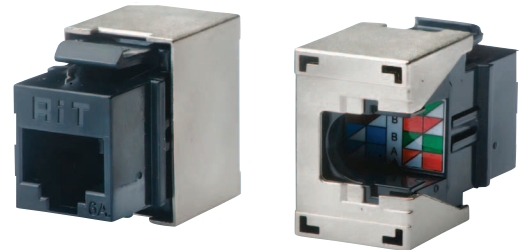
# SMARTen Keystone Jack UTP Connecting Hardware

SMARTen  
WARRANTY

CAT-6A

## Features

- Compact design, supports 24 keystones in 1 row, 1U
- High performance supports Category 6A performance specifications up to 500 MHz
- Supports Category 6A UTP environment
- Conforms to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801 2nd edition and CENELEC EN50173 for Category 6A/CLASS E<sub>A</sub>
- Simple labor-saving termination using standard 110 Block and Krone termination tools
- Supports solid or stranded 22-26 AWG wires
- Simple assembly and installation for reliable performance
- Compatible with a variety of international faceplates and patch panels, as per IEC 60603-7



## General

### Material

- **Jack Housing**  
Polycarbonate UL 94V-0
- **Jack Contacts**  
Phosphor bronze, 50 micro-inch gold plating over nickel
- **Wiring Block Housing**  
Polycarbonate UL 94V-0
- **IDC Contacts**  
Tin plated phosphor bronze
- **Shield**  
Zinc Alloy
- **Flammability**  
Conforms to UL 94V-0
- **Standards**  
Jack openings comply with IEC 60603-7 and FCC 68.500
- **Environment**  
Temperature: -10 to 60°C  
Humidity: 0-90% non-condensing
- **Storage Temperature**  
-40°C to 85°C

Part #	Description
R3110572	SMARTen Jack, UTP, B&K,568A+B, Connecting Hardware

# SMARTen Keystone Jack STP Connecting Hardware

**SMARTen**  
WARRANTY

**CAT-6A**

## Features

- Compact design, supports 24 keystones in 1 row, 1U
- High performance supports Category 6A performance specifications up to 500 MHz
- Conforms to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801 2nd edition and CENELEC EN50173 for Category 6A/CLASS E<sub>A</sub>
- Simple labor-saving termination using standard 110 Block termination and Krone tools
- Supports solid or stranded 22-26 AWG wires
- Simple assembly and installation for reliable performance
- Compatible with a variety of international faceplates and patch panels, as per IEC 60603-7



## General

### Material

- **Jack Housing**  
Polycarbonate UL 94V-0
- **Jack Contacts**  
Phosphor bronze, 50 micro-inch gold plating over nickel
- **Wiring Block Housing**  
Polycarbonate UL 94V-0
- **IDC Contacts**  
Tin plated phosphor bronze
- **Shield**  
Zinc Alloy
- **Flammability**  
Conforms to UL 94V-0
- **Standards**  
Jack openings comply with IEC 60603-7 and FCC 68.500
- **Environment**  
Temperature: -10 to 60°C  
Humidity: 0-90% non-condensing
- **Storage Temperature**  
-40°C to 85°C

Part #	Description
R3110582	SMARTen Jack, STP, B&K, 568A+B, Connecting Hardware

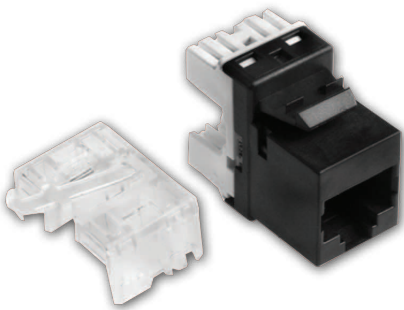
# SMARTen Modular UTP Keystone



CAT-6A

## Features

- Compact design, support 24 keystones in 1 row, 1U
- High performance supports Category 6A performance specifications up to 500 MHz
- Conforms to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2007) for Category 6A/CLASS E<sub>A</sub>
- Simple labor-saving termination using standard 110 Block termination and Krone tools
- Supports solid or stranded 22-26 AWG wires
- Adjustable Alien Cross-Talk protective
- Simple assembly and installation for reliable performance Compatible with a variety of international faceplates and patch panels IEC 60603-7



## General

### Material

- **Jack Housing**  
Polycarbonate UL 94V-0
- **Jack Contacts**  
Phosphor bronze, 50 micro-inch gold plating over nickel
- **Wiring Block Housing**  
Polycarbonate UL 94V-0
- **IDC Contacts**  
Lead-tin plated phosphor bronze
- **Shielding**  
Nickel Plating
- **Flammability**  
Conforms to UL 94V-0
- **Standards**  
Jack openings comply with IEC 60603-7 and FCC 68.500
- **Environment**  
Temperature -10 to 60°C  
Humidity 0-90% non-condensing
- **Storage Temperature**  
-40°C to 85°C

Part #	Description
R3110472	SMARTen Modular UTP Keystone



# SMARTen Keystone HD STP Jack – Connecting Hardware

**SMARTen**  
WARRANTY

**CAT-6A**

## Features

- Slim design, support 48 keystones in 1U
- Fully shielded molded jack
- Certified by 3rd lab for connecting hardware C6A performance
- Tool-less termination
- Termination can be done using standard 110 Block termination and Krone tools
- High performance supports Category 6A performance specifications up to 500 MHz
- Conforms to Connecting Hardware requirements as per: ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2007) for Category 6A/CLASS E<sub>A</sub>.
- Supports solid or stranded Category 3 to Category 7A cables
- Simple assembly and installation for reliable performanceCompatible with a variety of international faceplates and patch panels IEC 60603-7



## General

### Material

- **Jack Housing**  
Zinc die-casting with Nickel plating
- **Jack Contacts**  
Phosphor bronze, 50 micro-inch gold plating over nickel
- **IDC Contacts**  
Tin plated phosphor bronze
- **Flammability**  
Conforms to UL 94V-0
- **Standards**  
Jack openings comply with IEC 60603-7 and FCC 68.500
- **Environment**  
Temperature                    -10 to 60°C  
Humidity                        0-90% non-condensing
- **Storage Temperature**  
-40°C to 85°C

Part #	Description
R2800212	SMARTen Keystone STP HD Jack – Connecting Hardware

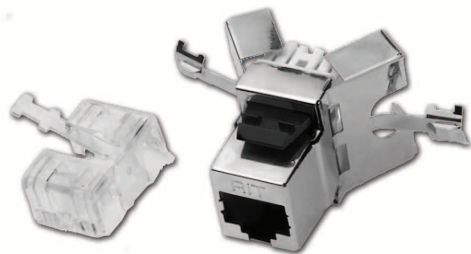
# SMARTen Modular STP Keystone



CAT-6A

## Features

- Compact design, support 24 keystones in 1 row, 1U
- High performance supports Category 6A performance specifications up to 500 MHz.
- Conforms to ANSI/TIA/EIA-568-C.2 latest draft, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2007) for Category 6A/CLASS E<sub>A</sub>.
- Simple labor-saving termination using standard 110 Block termination and Krone tools
- Supports solid or stranded 22-26 AWG wires
- Adjustable protective strain relief
- Simple assembly and installation for reliable performance
- Compatible with a variety of international faceplates and patch panels IEC 60603-7



## General

### Material

- **Jack Housing**  
Polycarbonate UL 94V-0
- **Jack Contacts**  
Phosphor bronze, 50 micro-inch gold plating over nickel
- **Wiring Block Housing**  
Polycarbonate UL 94V-0
- **IDC Contacts**  
Lead-tin plated phosphor bronze
- **Shield**  
Nickel Plating
- **Flammability**  
Conforms to UL 94V-0
- **Standards**  
Jack openings comply with IEC 60603-7 and FCC 68.500
- **Environment**  
Temperature                -10 to 60°C  
Humidity                    0-90% non-condensing
- **Storage Temperature**  
-40°C to 85°C

Part #	Description
R3110482	SMARTen Modular STP Keystone

# SMARTen Modular STP Coupler



CAT-6A

### Features

- High performance supports Category 6A performance specifications up to 500 MHz.
- Conforms to ANSI/TIA 568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2007) for Category 6A/CLASS EA. per Channel and P.Link Performance.
- Simple assembly and installation for reliable performance
- Compatible with a variety of international face-plates and patch panels IEC 60603-7



### General

#### Material

- **Jack Housing**  
Zinc-Alloy fully shielded
- **Jack Contacts**  
Phosphor bronze, 50 micro-inch gold plating over nickel
- **Standards**  
Jack openings comply with IEC 60603-7 and FCC 68.500
- **Environment**  
Temperature            -10 to 60°C  
Humidity                0-90% non-condensing
- **Storage Temperature**  
-40°C to 85°C

Part #	Description
R2800110	SMARTen Modular STP Coupler

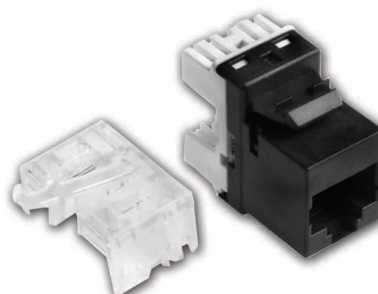
# CLASSix Keystone Jack UTP

SMART  
CLASSix  
WARRANTY

CAT-6

## Features

- Compact design, support 24 keystones in 1 row, 1U
- Conforms to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2002) for Category 6/Class E standard of component level
- Simple labor-saving termination using standard 110 Block termination and Krone tools
- Supports solid or stranded 22-26 AWG wires
- Adjustable protective strain relief
- Simple assembly and installation for reliable performance
- Compatible with a variety of international face-plates and patch panels, as per IEC 60603-7 (603-7)
- Plastic Rating UL-94V0



## General

### Material

- **Jack Housing**  
Polycarbonate UL 94V-0
- **Jack Contacts**  
Phosphor bronze, 50 micro-inch gold plating over nickel
- **Wiring Block Housing**  
Polycarbonate UL 94V-0
- **IDC Contacts**  
Lead-tin plated phosphor bronze
- **Flammability**  
Conforms to UL 94V-0
- **Standards**  
Jack openings comply with IEC 60603-7 and FCC 68.500
- **Environment**  
Temperature -10 to 60°C  
Humidity 0-90% non-condensing
- **Storage Temperature**  
-40°C to 85°C

Part #	Description
R3110372	Classix Keystone Jack, UTP, B&K, 568A+B, Black
R3113372	Cat.6 Jack,UTP,B&K,568A+B, Yellow
R3115372	Cat.6 Jack,UTP,B&K,568A+B, Black
R3116372	Cat.6 Jack,UTP,B&K,568A+B, White
R3117372	Cat.6 Jack,UTP,B&K,568A+B, Gray
R3118372	Cat.6 Jack,UTP,B&K,568A+B, Red
R3119372	Cat.6 Jack,UTP,B&K,568A+B, Blue

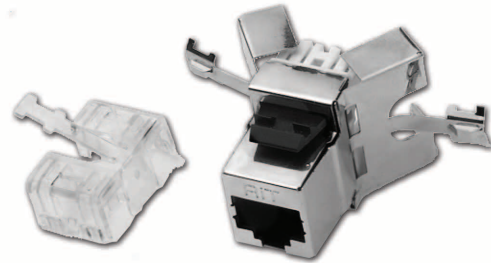
# CLASSix Keystone Jack STP

SMART  
CLASSix  
WARRANTY

CAT-6

## Features

- Compact design, support 24 keystones in 1 row, 1U
- Conforms to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2002) for Category 6/Class E standard of component level
- Simple labor-saving termination using standard 110 Block termination and Krone tools
- Supports solid or stranded 22-26 AWG wires
- Adjustable protective strain relief
- Simple assembly and installation for reliable performance
- Compatible with a variety of international faceplates and patch panels, as per IEC 60603-7 (603-7)



## General

### Material

- **Jack Housing**  
Polycarbonate UL 94V-0
- **Jack Contacts**  
Phosphor bronze, 50 micro-inch gold plating over nickel
- **Wiring Block Housing**  
Polycarbonate UL 94V-0
- **IDC Contacts**  
Lead-tin plated phosphor bronze
- **Shield**  
Nickel Plating
- **Flammability**  
Conforms to UL 94V-0
- **Standards**  
Jack openings comply with IEC 60603-7 and FCC 68.500
- **Environment**  
Temperature -10 to 60°C  
Humidity 0-90% non-condensing
- **Storage Temperature**  
-40°C to 85°C

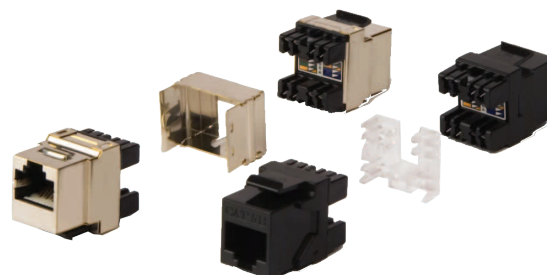
Part #	Description
R3110382	CLASSix Keystone Jack, STP, B&K, 568 A+B

# SMART Giga Outlets - Modular Keystone Jacks


**CAT-5E**

## Features

- Compact design, support 24 keystones in 1 row, 1U
- Shielded and unshielded designs
- Conform to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801 2<sup>nd</sup> edition and CENELEC EN50173 for Category 5e/ CLASS D
- Universal block - 110 & Krone tool compatible
- Support solid or stranded 23-26 AWG wires
- Protective strain relief caps
- Strain relief for STP models
- Simple assembly and installation for reliable performance
- Compatible with a variety of international faceplates and patch panels, as per IEC 60603-7



## Physical

### Giga Jacks

Height:	22 mm	(UTP)
	22.8 mm	(STP)
Width:	17.15 mm	(UTP)
	17.15 mm	(STP)
Depth:	27.95 mm	(UTP)
	29.35 mm	(STP)

## Flammability

Conforms to UL 94V-0

## Standards

Jack openings comply with IEC 60603-7 and FCC 68.500

## Environment

Temperature	-10 to 60°C
Humidity	0-90% non-condensing

## Storage Temperature

-40°C to 85°C

## General

### Material

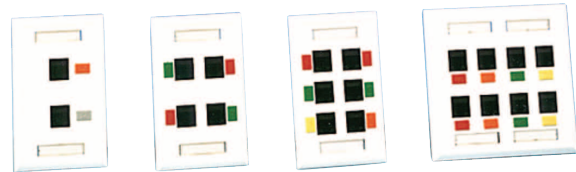
- **Jack Housing**  
Polycarbonate UL 94V-0
- **Jack Contacts**  
Phosphor bronze, 50 micro-inch gold plating over 100 micro-inch nickel
- **Wiring Block Housing**  
Polycarbonate UL 94V-0
- **IDC Contacts**  
Lead-tin plated phosphor bronze
- **Shield**  
Brass alloy plated with 50 micro-inch Nickel

Part #	Description
R3010072	Giga Keystone Jack, UTP, B&K, 568A+B, Black
R3010082	Giga Keystone Jack, STP, B&K, 568A+B, Black

# American Keystone-Type Faceplates

## Features

- American Keystone-Type Faceplates are available in 2, 4, 6 and 8 port configurations
- Faceplate jack openings comply with IEC 603-7 and FCC 68.500 standards
- Blank port inserts are available
- Faceplates include write-on identification labels and spaces for optional snap-in color service identification tabs, for easy identification of ports
- Housing Flammability rate 94 V-0



Part #	Description
<b>American Keystone-Type Faceplates</b>	
R3010220	American Keystone-Type Faceplate, 2-Ports, White
R3010240	American Keystone-Type Faceplate, 4-Ports, White
R3010260	American Keystone-Type Faceplate, 6-Ports, White
R3010280	American Keystone-Type Faceplate, 8-Ports, White
<b>Snap-In Identification Icons</b>	
R3010900	Snap-In Icon, White
R3010901	Snap-In Icon, Ivory
R3010902	Snap-In Icon, Red
R3010903	Snap-In Icon, Gray
R3010904	Snap-In Icon, Blue
R3010905	Snap-In Icon, Green
R3010906	Snap-In Icon, Yellow

## European Keystone-Type Wall Outlets

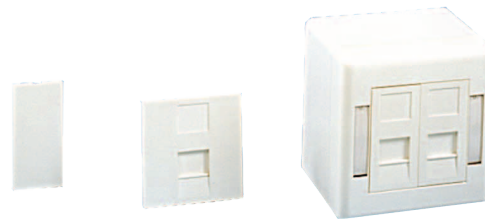
### German Keystone-Type Wall Outlets

German Keystone-Type Wall Outlets are available in both external wall box and faceplate configurations. Write-on identification labels are included for easy service identification. The faceplates have standard 50mm x 50mm openings. A variety of inserts, including a 50 x 50 single-port, a 25 x 50 single-port and a 25 x 50 blank, enable custom configuration of the faceplates. Jack openings feature shutters for dust protection and comply with IEC 603-7 and FCC 68.500 standards.

Housing Flammability rate 94 V-0

### French Keystone-Type Wall Outlets

French Keystone-Type Wall Outlets are available in both external wall box and faceplate configurations. External wall boxes include write-on identification labels for easy service identification. The faceplates have standard 45mm x 45mm openings. A variety of inserts, including a 45 x 45 single-port, a 22.5 x 45 single-port and a 22.5 x 45 blank, enable custom configuration of the faceplates.



Jack openings feature shutters for dust protection and comply with IEC 603-7 and FCC 68.500 standards.

Products are packaged individually in polybags. Keystone-type jacks must be ordered separately. Please refer to the RiT Giga and C5 Jack chapter in this section for further information. Faceplates include mounting screws.

Part #	Description
<b>German Keystone-Type Wall Outlets</b>	
R3010400	German Keystone-Type Faceplate, White
R3011410	External Wall Box, White
R3010510	50 x 50 Insert, 1-Port, White
R3010810	25 x 50 Insert, 1-Port, White
R3010800	25 x 50 Insert, Blank, White
<b>French Keystone-Type Wall Outlets</b>	
R3011310	French Keystone-Type Faceplate, White
R3011410	External Wall Box, White
R3011000	45 x 45 Insert, 1-Port, White
R3011100	22.5 x 45 Insert, 1-Port, White
R3011120	22.5 x 45 Insert, 1Blank, White
<b>Italian Keystone-Type Wall Outlets</b>	
R3010630	Italian Keystone-Type Faceplate, 3-Ports, White



# Sloped Faceplate & Wall Box

## Features

- Sloped faceplate design for reducing cable tension and strain, and greatly enhancing cable protection
- Faceplate can be assembled beneath the plaster
- Accommodate two IEC 603-7 and FCC 68.500 standards keystone opening
- Fall-down shutters, allowing to use 1 or 2 keystone jacks
- Simple assembly and cable installation for reliable performance
- Faceplates include write-on identification labels
- Compatible with all new RiT Keystone's jacks and Patch cords
- Faceplates and Wall box are sold separately



## Material

- **Housing**  
Polycarbonate UL 94V-0
- **Physical dimensions (Faceplate & box)**  
Height: 86.00 mm  
Width: 86.00 mm  
Depth: 50.00 mm  
Box only 38.00 mm
- **Flammability**  
Conforms to UL 94V-0
- **Standards**  
Jack openings comply with IEC 60603-7 and FCC 68.500

Part #	Description
R3011520	Sloped Faceplate, Shutters, 2-Ports, 86x86, White
R3011620	Wall Box, 86x86, White

## Various Adapters

### Bticino Outlet Insert

- Compatible with Bticino outlets
- Jack openings comply with IEC 603-7 and FCC 68.500 standards
- Supports blank port inserts
- Color: white
- Conforms to UL 94V-0
- Dimensions (WxH): 22.5 mm x 45 mm



Part #	Description
R3011910	Bticino Outlet Insert

### Gewiss Outlet Insert

- Compatible with Gewiss outlets
- Jack openings comply with IEC 603-7 and FCC 68.500 standards
- Supports blank port inserts
- Color: white
- Conforms to UL 94V-0
- Dimensions (WxH): 22.5 mm x 45 mm



Part #	Description
R3011810	Gewiss Outlet Insert

### Adaplast Outlet Insert

- Compatible with Adaplast outlets
- Faceplate jack openings comply with IEC 603-7 and FCC 68.500 standards
- Support blank port inserts
- Color: white
- Conforms to UL 94V-0
- Dimensions (WxH) 22.5 mm x 45 mm



Part #	Description
R3011710	Adaplast Outlet Insert

# Flash Communication Outlets

## Features

- Low profile, surface mount design
- 1 & 2 models
- Vertical drop cable entry dramatically reduces cable tension and strain, and enhances cable protection
- Snap-on cover, no visible screws
- spring-loaded shutters
- Conform to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2002) for Category 6/Class E.
- Tool-Less termination
- Class-1 Clean Room models
- Flammability: Conforms to UL 94V-0
- 



The Flash line of high performance data communications wall outlets was designed for surface mount applications.

RiT Flash Outlets conform to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2002) for Category 6/Class E.

Drop cables extend vertically downward along the wall for superior protection and avoidance of accidental damage. Cable tension and strain are also greatly reduced. The line is characterized by its low profile and sleek design. It features spring loaded shutters for dust protection and color icon tabs for easy service identification.

Breakaway sections are provided on three sides and a hole is provided in the back to enhance installation flexibility. The cover which includes a write-on identification label features screw-less, snap-on attachment to the base.

Flash wall outlets are available with 110 blocks or KRONE LSA-plus blocks for cable termination.

Outlets can be ordered pre-assembled or in field configurable kits, for greater modularity and reduced stock.

Part #	Description
R4180010	Casing, Flash, 1-Port, White
R4180020	Casing, Flash, 2-Ports, White
R3012201	Blank Insert, Flash Box, White

# Faceplate Flat Shutters

## Features

- UL safety verified
- Flammability: Conforms to UL 94V-0
- Uses RiT’s standard keystone jack
- Customized colors available
- Dimensions: 86x86 mm
- Compatible with RiT Keystone
- Color: White (Default)



Part #	Description
R3012410	Faceplate, Flat, Shutters, 1P, 86x86, W
R3012420	Faceplate, Flat, Shutters, 2P, 86x86, W

# Cables for Copper Cabling



When it comes to implementing physical network connectivity, RiT offers a variety of cables. Choose from UTP, FTP and STP horizontal cables and flexible patch cables.

RiT offers a full range of Category 6A SMARTen for 10 Giga, Category 6 CLASSix cables and Enhanced Category 5 Giga cables, supporting protocols running at up to 1,000 Mbps, and Category 7 cables for STP environments.

---

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## Category 7 Copper Cables

### Features

- 100 ohm, foiled and shielded horizontal cable
- Four individually foiled twisted pairs with an overall braid-shield
- High performance, designed to support protocols running at up to IEEE
- 802.3an 10Gbps, 1000 Mbps, such as ATM 622 Mbps and Gigabit Ethernet
- Specified up to 600 MHz
- Conforms to Category 7 cables, specification as per IEC 61156-5 standard
- Halogen-free, flame-retardant (LSZH) or PVC jacket

### Construction

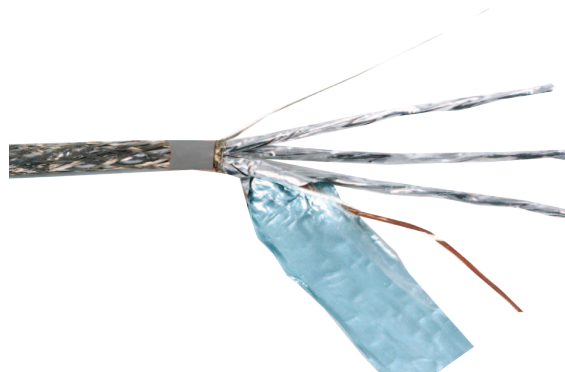
- **Basic Wires**  
Conductor: eight wires, bare copper, 0.58 mm OD (23 AWG)  
Insulation: skin foam, polyolefin, 1.43 mm OD
- **Pair Construction**  
Four pairs, each pair wrapped in polyester-aluminum foil (metal face outward), providing 100% coverage
- **Overall Shield**  
Tinned-copper braid (providing 51% coverage minimum)
- **Overall Diameter**  
7.6 mm nominal, 8.1 mm max
- **Outer Sheath**

#### LSZH

Halogen-free, flame retardant (LSZH) compound, colored light gray RAL7032, with black printing

#### PVC

FR PVC compound, colored light gray RAL7035, with black printing



### General

- **Storage Temperature**  
-30°C to 70°C (22° to 158°F)
- **Operating Temperature**  
-5°C to 50°C (23° to 122°F)
- **Bending Radius (min.)**  
100 mm during installation  
30 mm during operation
- **Flemmability Test**  
IEC 332-1 / UL 1581 VW-1
- **Weight**  
73 kg/km, nominal

Part #	Description
R3729040	Category 7 STP Horizontal Cable, LSZH, 500m Reel
R3729041	Category 7 STP Horizontal Cable, LSZH, 1000m Reel
R3729140	Category 7 STP Horizontal Cable, PVC, 500m Reel
R3729141	Category 7 STP Horizontal Cable, PVC, 1000m Reel

# SMARTen U/FTP Un-Grounded Horizontal Cable


**CAT-6A**

## Features

- 100-ohm, ungrounded screened horizontal cable
- Four individually twisted pairs wrapped with a polyester-aluminum foil, aluminum face inside
- High performance, supportable bandwidth up to 500 MHz according to IEEE 802.3an 10Gbps
- Specified up to 500 MHz
- Conforms to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2007) for Category 6A/ CLASS E<sub>A</sub>
- Backward compatible with Category 5e and Category 6 cabling standards
- Low-smoke, Zero halogen (LSZH) or PVC jacket

## Construction

- **Basic Wires**  
Conductor: Eight wires, bare copper, 0.58mm OD (23 AWG)  
Insulation: skin foam skin, polyolefin.
- **Pair Construction**  
Four pairs, each pair wrapped in polyester-aluminum foil (metal face outward), eliminating alien cross-talk.
- **Overall Diameter**  
8.0mm nominal
- **Outer Sheath**  
**LSZH**  
Low Smoke, Zero Halogen (LSZH) compound, colored light gray RAL 7032 with black printing.  
**PVC**  
SR PVC compound, colored light gray RAL 7035, with black printing.



## General

- **Storage Temperature**  
-40° to 70°C.
- **Operating Temperature**  
-10° to 50°C.
- **Bending Radius (min.)**  
80 mm during installation  
50 mm during operation.
- **Flammability Test**  
IEC 332-1 / UL 1581 VW-1.
- **Weight**  
**LSZH**  
51 kg/km, nominal  
**PVC**  
54 kg/km, nominal
- **Pulling Force**  
130 N max. during installation

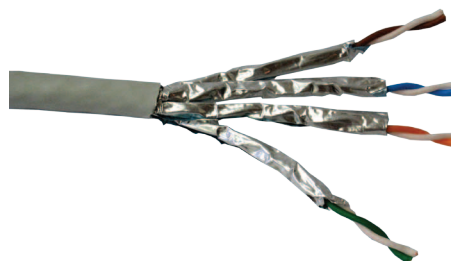
Part #	Description
R3726020	SMARTen U/FTP Un-Grounded Horizontal Cable, LSZH, 500m Reel
R3726120	SMARTen U/FTP Un-Grounded Horizontal Cable, PVC, 500m Reel

# SMARTen U/FTP Horizontal Cable


**CAT-6A**

## Features

- 100-ohm, screened horizontal cable
- Four individually twisted pairs wrapped with a polyester-aluminum foil
- High performance, supportable bandwidth up to 500 MHz according to IEEE 802.3an 10Gbps
- Specified up to 500 MHz
- Conforms to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and
- CENELEC EN50173 (2007) for Category 6A/CLASS E<sub>A</sub>
- Backward compatible with Category 5e and Category 6 cabling standards
- Low-smoke, Zero halogen (LSZH) or PVC jacket



## General

- **Installation Temperature**  
-40° to 70°C
- **Operating Temperature**  
-10° to 50°C
- **Bending Radius (min.)**  
80 mm during installation  
50 mm during operation.
- **Flammability Test**  
IEC 332-1 / UL 1581 VW-1
- **Weight**

### LSZH

51 kg/km, nominal

### PVC

54 kg/km, nominal

- **Pulling Strength**  
130 N max. during installation

Part #	Description
R3726030	SMARTen U/FTP Horizontal Cable, LSZH, 500m Reel
R3726130	SMARTen U/FTP Horizontal Cable, PVC, 500m Reel



# SMARTen U/UTP Horizontal Cable

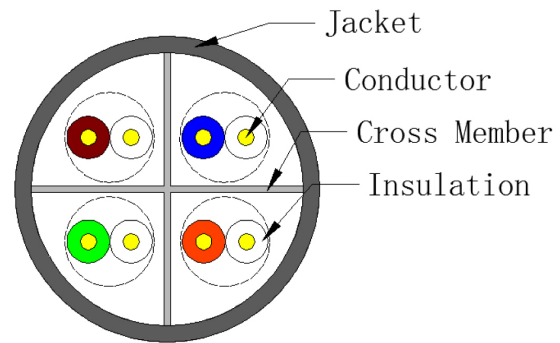
SMART  
CLASSIX  
WARRANTY

CAT-6

## Features

- Generic cabling systems
- UL Listed & Verified to Standards – ISO/IEC 11801 & ANSI/TIA – 568 - C.2
- Including 10Base -T, 100Base -T 1000Base -T, ATM 10G & Token Ring
- IEEE 802.3 af (PoE), IEEE 802.3 at (PoE+)
- Central separator for improved performance
- Environmental properties and Fire Performances
 

Fire Performance	IEC60332-1-2
Smoke density	IEC 61034-2
Halogen acid gas emission	IEC 60754-1&-2



## General

- **Storage Temperature**  
-20° to +75°C
- **Operating Temperature**  
-20°C To +75°C
- **Bending Radius (min.)**  
57 mm during installation  
28 mm during operation
- **Nominal Weight**  
54 kg/km, nominal
- **Max. Recommended Pulling**  
100 N

Part #	Description
R3722080	CAT6A,U/UTP, Horizontal Cable, LSZH, Grey, 500m Reel
R3722085	CAT6A,U/UTP, Horizontal Cable, LSZH, Grey, 305m Reel
R3722780	CAT6A,U/UTP, Horizontal Cable, LSZH, Blue, 500m Reel
R3722785	CAT6A,U/UTP, Horizontal Cable, LSZH, Blue, 305m Reel

# CLASSix STP Horizontal Cables

SMART  
CLASSix  
WARRANTY

CAT-6

## Features

- 100 ohm, foiled and shielded horizontal cable
- Four individually foiled twisted pairs with an overall braid-shield
- High performance, designed for ATM 622 Mbps and Gigabit
- Ethernet 1,000 Mbps applications
- Specified up to 250 MHz
- Conform to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2002) for Category 6/Class E
- Halogen-free, flame-retardant (LSZH) or PVC jacket



## General

- **Storage Temperature**  
30° to 70°C (22° to 158°F)
- **Operating Temperature**  
5° to 50°C (23° to 122°F)
- **Bending Radius (min.)**  
57 mm during installation  
28 mm during operation
- **Flammability Test**  
IEC 332-1 / UL 1581 VW-1
- **Weight**  
54 kg/km, nominal
- **Pulling Force**  
130 N max. during installation

Part #	Description
R3726000	CLASSix STP Horizontal Cable, LSZH, 500m Reel
R3726001	CLASSix STP Horizontal Cable, LSZH, 1000m Reel
R3726100	CLASSix STP Horizontal Cable, LSZH, 305m Box
R3726101	CLASSix STP Horizontal Cable, PVC, 500m Reel

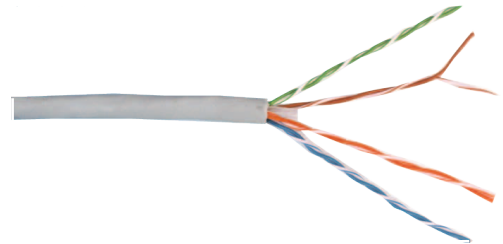
# CLASSix UTP Horizontal Cable

SMART  
CLASSix  
WARRANTY

CAT-6

## Features

- 100-ohm, flexible, horizontal UTP cable
- Four twisted pairs
- High performance, designed for ATM 622 Mbps and Gigabit Ethernet 1000 Mbps applications
- Specified up to 250 MHz
- Conforms to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2002) for Category 6/Class E
- Two options: Halogen-free, flame-retardant (LSZH) or PVC jacket
- Available in easy-pull, ready-to-use box



## General

- **Installation Temperature**  
-5° to 50°C (32° to 122°F)
- **Operating Temperature**  
-20° to 60°C (-4° to 140°F)
- **Bending Radius (min.)**  
60mm during installation  
30mm during operation
- **Flammability Test**  
IEC 332-1 / UL 1581 VW-1
- **Weight**

### LSZH

44.0 kg/km, nominal

### PVC

47.0 kg/km, nominal

- **Pulling Strength**  
92 N max.
- **Breaking Strength**  
400 N min.

Part #	Description
R3729070	CLASSix UTP Horizontal Cable, LSZH, 500m Reel
R3729071	CLASSix UTP Horizontal Cable, LSZH, 1000m Reel
R3729072	CLASSix UTP Horizontal Cable, LSZH, 305m Box
R3729170	CLASSix UTP Horizontal Cable, PVC, 500m Reel
R3729171	CLASSix UTP Horizontal Cable, PVC, 1000m Reel
R3729172	CLASSix UTP Horizontal Cable, PVC, 305m Box

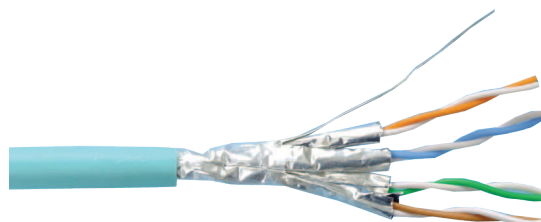
# CLASSix U/FTP Horizontal Cable

SMART  
CLASSix  
WARRANTY

CAT-6

## Features

- 100 ohm, U/FTP horizontal cable
- Four individually foiled twisted pairs
- High performance, designed for ATM 622 Mbps and Gigabit Ethernet 1000 Mbps applications
- Specified up to 250 MHz
- Conforms to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2002) for Category 6/Class E
- Halogen free, flame retardent (LSZH) or PVC jacket



## General

- **Storage Temperature**  
-30° to 70°C (22° to 158°F)
- **Operating Temperature**  
-5° to 50°C (23° to 122°F)
- **Bending Radius (min.)**  
57 mm during installation  
28 mm during operation
- **Flammability Test**  
IEC 332-1 / UL 1581 VW-1
- **Weight**  
50 kg/km, nominal
- **Pulling Strength**  
130 N max. during installation

Part #	Description
R3729060	CLASSix U/FTP Horizontal Cable, LSZH, 500m Reel
R3729160	CLASSix U/FTP Horizontal Cable, PVC, 500m Reel

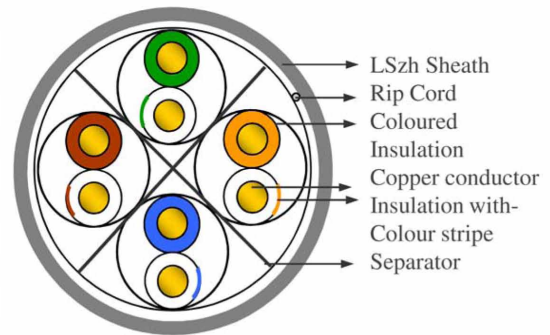
# CLASSix UTP LSZH Cable

SMART  
CLASSix  
WARRANTY

CAT-6

## Features

- Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs.
- Supports Gigabit Ethernet (1000 Base-T) standard.
- Operates at bandwidth of 250MHz.
- This cable well exceeds the requirements of ANSI/TIA-568-C.2 , ISO/IEC 11801:2010 (Ed. 2.2) and ISO/IEC 61156-5, ETL Verified
- Compatible with all common systems according to: 10BASE-T, IEEE 802.3 af (PoE), 100BASE-T, IEEE 802.3at (PoE+) & 1000BASE-T
- Flame Properties**
  - Flammability Test ISO/IEC 60332-3-22
  - Acid Gas Emission Test IEC 60754-1
  - Smoke Density Test IEC 61034



## General

- Installation Temperature**  
0° to +50°C
- Operating Temperature**  
-20° to +70°C
- Bending Radius (min.) Installation**  
<4 X Cable Diameter at -20°C ±1°C
- Bending Radius (min.) Operation**  
<4 X Cable Diameter at -20°C ±1°C
- Pulling Force**  
11.5 Kg
- Cable Wt. per Box**  
13.5 Kg Nom

Part #	Description
R3720072	CAT6, UTP, Horizontal Cable, 23 AWG, LSZH, Grey, 305m Box
R3720772	CAT6, UTP, Horizontal Cable, 23 AWG, LSZH, Blue, 305m Box

## CLASSix UTP Outdoor Armored Cable DJ LSZH



CAT-6

## Features

- For outdoor application
- Operates at bandwidth of 250MHz.
- Compatible with all common systems according to ANSI/TIA-568-C.2
- Flammability Test – IEC 60332-1
- RoHS Compliant

## General

- **Bending Radius:** 20 x Cable Diameter
- **Pulling Force:** 50 Kg
- **Temperature Range:** -20°C to +70°C

Part #	Description
R3620020	CAT6, U/UTP, 4 Pair, AWG23, Double Jacket, LSZH/PE, ECCS Armored Cable

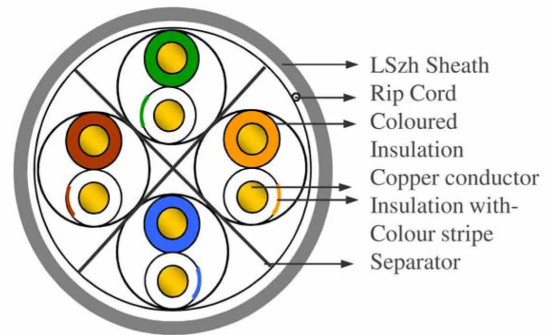
# CLASSix UTP PVC Cable

SMART  
CLASSix  
WARRANTY

CAT-6

## Features

- Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs.
- Supports Gigabit Ethernet (1000 Base-T) standard.
- Operates at bandwidth of 250MHz.
- This cable well exceeds the requirements of ANSI/TIA-568-C.2, ISO/IEC 11801:2010 (Ed. 2.2) and ISO/IEC 61156-5, ETL Verified & UL Listed
- Compatible with all common systems according to: 10BASE-T, IEEE 802.3 af (PoE), 100BASE-T, IEEE 802.3at (PoE+) & 1000BASE-T
- Flame Properties**  
CM



## General

- Installation Temperature**  
0° to +50°C
- Operating Temperature**  
-20° to +70°C
- Bending Radius (min.) Installation**  
<4 X Cable Diameter at -20°C ±1°C
- Bending Radius (min.) Operation**  
<4 X Cable Diameter at -20°C ±1°C
- Pulling Force**  
11.5 Kg
- Cable Wt. per Box**  
13.5 Kg Nom

Part #	Description
R3720172	CAT6, UTP, Horizontal Cable, 23 AWG, PVC, Grey, 305m Box
R3720672	CAT6, UTP, Horizontal Cable, 23 AWG, PVC, Blue, 305m Box

# CLASSix F/UTP PVC & LSZH

SMART  
CLASSix  
WARRANTY

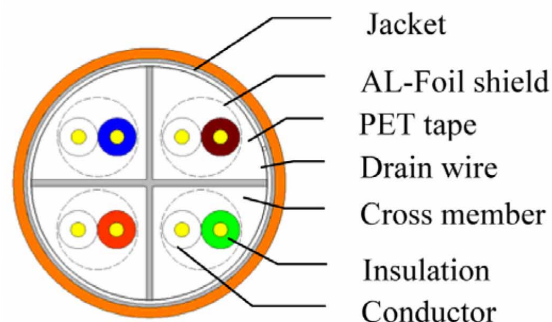
CAT-6

## Features

- Category 6 F/UTP 4 Pair screened cable
- ISO11801 & TIA/EIA-568-C.2, UL Subject 444
- Generic cabling systems. Including 10Base-T, 100Base-T, 1000Base-T, ATM & Token Ring, IEEE 802.3af (PoE), IEEE 802.3at (PoE+)
- Central separator for improved performance.
- Environmental properties and Fire Performances

PVC Fire Performance  
IEC60332-1-2 or UL CMX or CM or CMR

LSZH requirement  
IEC60332-1-2, IEC 61034-2, IEC 60754-1&-2



## General

- **Installation Temperature**  
-5° to +50°C
- **Operating Temperature**  
-20° to +70°C
- **Storage Temperature Range**  
-20° to +75°C
- **Bending Radius (min.) Installation**  
8\*OD
- **Bending Radius (min.) Operation**  
4\*OD
- **Nominal Weight**  
55 Kg/Km

Part #	Description
R3722160	CAT6, F/UTP, Horizontal Cable, PVC, 500m Reel
R3722165	CAT6, F/UTP, Horizontal Cable, PVC, 305m Reel
R3722060	CAT6, F/UTP, Horizontal Cable, LSZH, 500m Reel
R3722065	CAT6, F/UTP, Horizontal Cable, LSZH, 305m Reel



# CLASSix UTP LSZH Cable – D1102

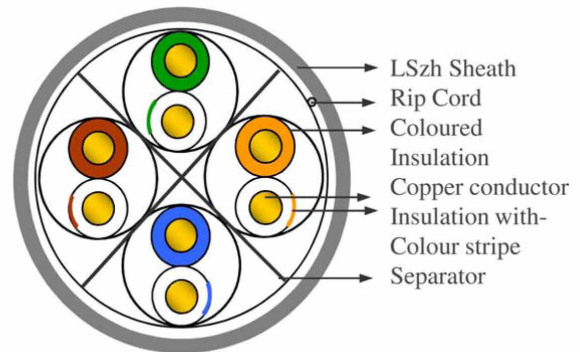
SMART  
CLASSix  
WARRANTY

CAT-6

## Features

- Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs
- Supports Gigabit Ethernet (1000 Base-T) standard
- Category 6/Class E Cable, Operates at bandwidth of 250MHz
- This cable well exceeds the requirements of ANSI/TIA-568-C.2, ISO/IEC 11801:2010 (Ed. 2.2) and ISO/IEC 61156-5
- Compatible with all common systems according to:
- 10BASE-T, IEEE 802.3 af (PoE), 100BASE-T, IEEE 802.3at (PoE+) & 1000BASE-T
- Flame Properties**

Flammability Test	ISO/IEC 60332-1
Acid Gas Emission Test	IEC 60754-1
Smoke Density Test	IEC 61034



## General

- Installation Temperature**  
0° to +50°C
- Operating Temperature**  
-20° to +70°C
- Storage Temperature**  
0° to +60°C
- Bending Radius (min.) Installation**  
<4 X Cable Diameter at -20°C ±1°C
- Bending Radius (min.) Operation**  
<4 X Cable Diameter at -20°C ±1°C
- Pulling Force**  
11.5 Kg
- Cable Wt. per Box**  
13.5 Kg Nom

Part #	Description
R3720092	CLASSix UTP Horizontal Cable D1102, CAT6, 23 AWG, LSZH, Grey, 305m Box

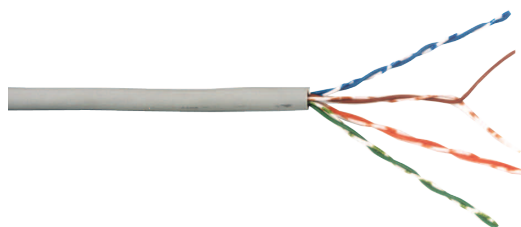
# Giga UTP Horizontal Cables

SMART  
GIGA  
WARRANTY

CAT-5E

## Features

- 100 ohm, UTP horizontal cable
- Four twisted pairs, solid bare copper wires, 24 AWG
- High performance, designed for ATM 622 Mbps and Giga-bit Ethernet 1000 Mbps applications
- Specified up to 125 MHz
- Conforms to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2002) for Category 5e/Class D
- Halogen-free, flame-retardant (LSZH) or PVC jacket
- Available in easy-pull, ready-to-use box



## General

- **Installation Temperature**  
0° to 50°C (32° to 122°F)
- **Operating Temperature**  
-20° to 60°C (-4° to 140°F)
- **Bending Radius (min.)**  
20 mm during operation  
40 mm during installation
- **Flammability Test**  
IEC 332-1 / UL 1581 VW-1
- **Weight**  
28 kg/km, nominal
- **Breaking Strength**  
200 N min.

Part #	Description
R3729050	Giga UTP Horizontal Cable, LSZH, 500m Reel
R3729051	Giga UTP Horizontal Cable, LSZH, 1000m Reel
R3729052	Giga UTP Horizontal Cable, LSZH, 305m Box
R3729150	Giga UTP Horizontal Cable, PVC, 500m Reel
R3729151	Giga UTP Horizontal Cable, PVC, 1000m Reel
R3729152	Giga UTP Horizontal Cable, PVC, 305m Box

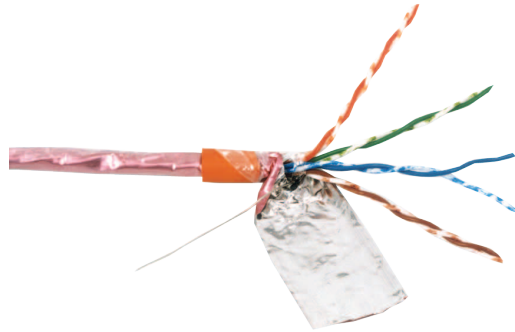
# Giga F/UTP Horizontal Cables

SMART  
GIGA  
WARRANTY

CAT-5E

## Features

- 100 Ohm, foil-shielded horizontal cable
- Four twisted pairs, solid bare copper wires, 24 AWG
- Halogen-free, flame-retardant (LSZH) or PVC jacket
- Conforms to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2002) for Category 5e/Class D
- Figure-8 construction available



## General

- **Installation Temperature**  
0° to 50° C (32° to 122° F)
- **Operating Temperature**  
20° to 60° C (4° to 140° F)
- **Bending Radius (min.)**  
48 mm during installation  
24 mm during operation
- **Flammability Test**  
IEC 332-1 / UL 1581 VW-1
- **Weight**  
45 kg/km, nominal
- **Breaking Strength**  
200 N min.

Part #	Description
R3727110	Giga FTP Horizontal Cable, Figure 8, PVC, 500m Reel
R3729010	Giga FTP Horizontal Cable, LSZH, 500m Reel
R3729011	Giga FTP Horizontal Cable, LSZH, 1000m Reel
R3729110	Giga UTP Horizontal Cable, PVC, 500m Reel
R3729111	Giga FTP Horizontal Cable, PVC, 1000m Reel
R3729112	Giga FTP Horizontal Cable, PVC, 305m Box

# Giga S/FTP Horizontal Cables

SMART  
GIGA  
WARRANTY

CAT-5E

## Features

- 100-ohm, foiled and braid-shielded horizontal cable
- Four twisted pairs, solid bare copper wires, 24 AWG
- Halogen-free, flame-retardant (LSZH) or PVC jacket
- Conforms to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2002) for Category 5e/Class D
- Figure-8 construction available



## General

- **Installation Temperature**  
0° to 50°C (32° to 122°F)
- **Operating Temperature**  
20° to 60°C (4° to 140°F)
- **Bending Radius (min.)**  
50 mm during operation  
24 mm during installation
- **Flammability Test**  
IEC 332-1 / UL 1581 VW-1
- **Weight**  
50 kg/km, nominal
- **Pulling Strength**  
92 N max.
- **Breaking Strength**  
200 N min.

Part #	Description
R3727130	Giga SFTP Horizontal Cable, Figure 8, PVC, 500m Reel
R3729030	Giga SFTP Horizontal Cable, LSZH, 500m Reel
R3729031	Giga SFTP Horizontal Cable, LSZH, 1000m Reel
R3729130	Giga SFTP Horizontal Cable, PVC, 500m Reel
R3729131	Giga SFTP Horizontal Cable, PVC, 1000m Reel

## Category 5 UTP Vertical Cable - 25 Pairs


**CAT-5**

### Features

- 100Ω, vertical UTP cable
- 25 twisted pairs
- Conforms to ISO/IEC 11801 and ANSI/TIA/EIA-568-C-2, Category 5 requirements for backbone applications



### Construction

- **Basic Wires**  
Conductor: solid bare copper 0.51 mm<sup>2</sup> OD (24 AWG)  
Insulation: Solid PO
- **Pair Color Codes**  
Pair color codes are as specified in ANSI/ICEA S-80-576, Table 4-3
- **Wall Thickness**  
0.5 mm nominal
- **Overall Diameter**  
12.4 mm nominal
- **Outer Sheath**  
FR PVC compound, flame retardant, colored light gray RAL 7035, with black printing
- **Bending Radius (min.)**  
135 mm

Part #	Description
R3728120	Category 5 UTP Vertical Cable, 25 Twisted Pairs, PVC, 500m Reel

## Category 5 UTP Vertical Cable - 50 Pairs


**CAT-5**

### Features

- 100Ω, vertical UTP cable
- 50 twisted pairs
- Conforms to ISO/IEC 11801 and ANSI/TIA/EIA-568-C-2, Category 5 requirements for backbone applications



### General

- **Installation Temperature**  
-5° to 40°C
- **Operating Temperature**  
-20° to 70°C
- **Bending Radius (min.)**  
173 mm
- **Flammability Test**  
UL VW-1
- **Weight**  
188 kg/km, nominal

Part #	Description
R3728140	Category 5 UTP Vertical Cable, 50 Twisted Pairs, PVC, 500m Reel

# Patch Cords for Copper Cabling



RiT offers a variety of both UTP and STP Patch Cords and SMART Jumpers.

RiT offer a full range of Category 6A SMARTen cords for 10G applications in addition to Category 6 CLASSix cords, Enhanced Category 5 Giga cords, supporting protocols running at up to 1,000 Mbps.

The Patch Cord series also include RiT’s unique SMART Jumpers™, which are designed for use with RiT’s real-time intelligent infrastructure management (IIM) solution - PatchView™.

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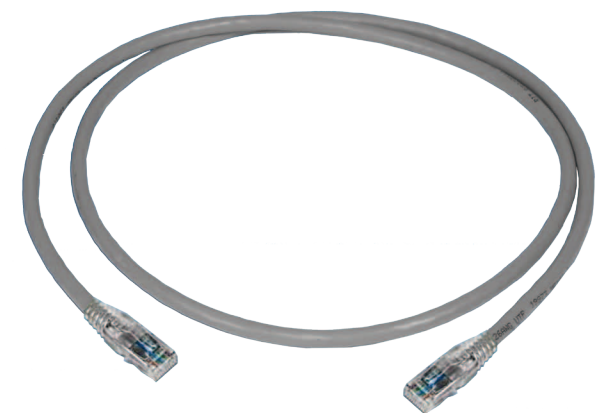
# SMARTen UTP Patch Cords



CAT-6A

## Features

- Patch Cords are used in the work area and cross-connect generic cabling applications
- Comprise a length of eight-wire flexible patch cable, terminated with two eight-position RJ-45 plugs at each end
- Special Un-grounded U/FTP Patch Cable for CAT 6A UTP environment
- Conform to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2007) for Category 6A/CLASS E<sub>A</sub>
- 100% factory tested



## General

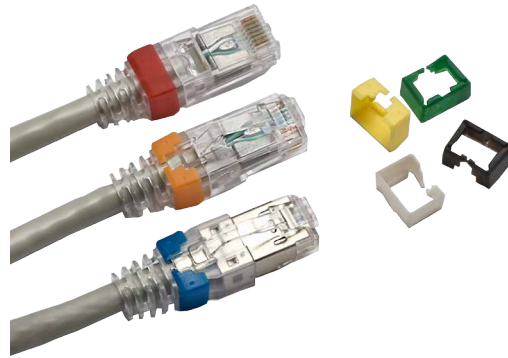
- **Storage Temperature**  
-20° to 60°C
- **Operating Temperature**  
-10° to 50°C
- **Flammability Test**  
IEC 332-1 / UL 1581 VW-1

Part #	Description
R3266200	SMARTen UTP Patch Cord, 2.0m, Gray
R3266300	SMARTen UTP Patch Cord, 3.0m, Gray
R3266500	SMARTen UTP Patch Cord, 5.0m, Gray
R4554100	SMARTen UTP Patch Cord, 10.0m, Gray

For other lengths please contact your sales representative.

## Color Rings for CLASSix and SMARTen Patch Cords

- Flexible Color Rings for Patch Cords designations
- 7 different colors to support distinctions of wide range applications
- Available in Yellow, Gray, Orange, Black, Blue, Green and Red
- Help to reusing patch cords – Green world
- Compatible with all CLASSix and SMARTen Patch Cords and SMART Jumpers, UTP and STP, New Designs
- Conform to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2007) for Category 6A/CLASS E<sub>A</sub>
- Plastic rated UL 94V-0
- 100 pieces packed in a plastic bag



Part #	Description
R3734001	Color Patch Cord Rings, Red
R3734002	Color Patch Cord Rings, Yellow
R3734003	Color Patch Cord Rings, Blue
R3734004	Color Patch Cord Rings, Gray
R3734005	Color Patch Cord Rings, Green
R3734006	Color Patch Cord Rings, Orange



# SMARTen STP Patch Cords

SMARTen  
WARRANTY

CAT-6A

## Features

- Patch Cords are used in the work area and cross-connect generic cabling applications
- Comprise a length of eight-wire flexible patch cable, terminated with two eight-position RJ-45 plugs at each end
- Patch cords feature non-molded RJ-45 plugs for enhanced life and reliability
- Slim design supporting high density environment
- Latch protection unique design for preventing cables snagging beneath the plug latch
- Conforms to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2007) for Category 6A/CLASS E<sub>A</sub> standards
- 100% factory tested



## General

- **Storage Temperature**  
-30° to 70°C
- **Operating Temperature**  
-20° to 60°C
- **Flammability Test**  
IEC 332-1 / UL 1581 VW-1
- **Weight**  
43kg/km, nominal

# SMARTen STP Patch Cords


**CAT-6A**

Part #	Description
R3268100	SMARTen STP Patch Cord, 1.0m, Gray
R3268200	SMARTen STP Patch Cord, 2.0m, Gray
R3268300	SMARTen STP Patch Cord, 3.0m, Gray
R3268500	SMARTen STP Patch Cord, 5.0m, Gray
R4598010	SMARTen STP Patch Cord, 1.0m, Purple
R4598020	SMARTen STP Patch Cord, 2.0m, Purple
R4598030	SMARTen STP Patch Cord, 3.0m, Purple
R4598050	SMARTen STP Patch Cord, 5.0m, Purple
R4599010	SMARTen STP Patch Cord, 1.0m, Yellow
R4599020	SMARTen STP Patch Cord, 2.0m, Yellow
R4599030	SMARTen STP Patch Cord, 3.0m, Yellow
R4599050	SMARTen STP Patch Cord, 5.0m, Yellow
R4626010	SMARTen STP Patch Cord, 1.0m, Black
R4626020	SMARTen STP Patch Cord, 2.0m, Black
R4626030	SMARTen STP Patch Cord, 3.0m, Black
R4626050	SMARTen STP Patch Cord, 5.0m, Black
R4627010	SMARTen STP Patch Cord, 1.0m, Red
R4627020	SMARTen STP Patch Cord, 2.0m, Red
R4627030	SMARTen STP Patch Cord, 3.0m, Red
R4627050	SMARTen STP Patch Cord, 5.0m, Red
R4628010	SMARTen STP Patch Cord, 1.0m, Green
R4628020	SMARTen STP Patch Cord, 2.0m, Green
R4628030	SMARTen STP Patch Cord, 3.0m, Green
R4628050	SMARTen STP Patch Cord, 5.0m, Green
R4629010	SMARTen STP Patch Cord, 1.0m, Blue
R4629020	SMARTen STP Patch Cord, 2.0m, Blue
R4629030	SMARTen STP Patch Cord, 3.0m, Blue
R4629050	SMARTen STP Patch Cord, 5.0m, Blue

For other lengths please contact your sales representative.

# CLASSix UTP Patch Cords

SMART  
CLASSix  
WARRANTY

CAT-6

## Features

- Patch Cords are used in the work area and cross-connect generic cabling applications
- Comprise a length of eight-wire flexible patch cable, terminated with two eight-position RJ-45 plugs at each end
- Conform to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2002) for Category 6/CLASS E
- 100% factory tested



## General

- **Operating Temperature**  
-20° to 60°C (-4° to 140°F)
- **Flammability Test**  
IEC 332-1 / UL 1581 VW-1
- **Weight**  
38 kg/km, nominal



Part #	Description
R3229100	CLASSix UTP Patch Cord, 1.0m, Gray
R3229150	CLASSix UTP Patch Cord, 1.5m, Gray
R3229200	CLASSix UTP Patch Cord, 2.0m, Gray
R3229300	CLASSix UTP Patch Cord, 3.0m, Gray
R3229500	CLASSix UTP Patch Cord, 5.0m, Gray
R3229600	CLASSix UTP Patch Cord, 6.0m, Gray

# CLASSix UTP Patch Cords


**CAT-6**

Part #	Description
R3229750	CLASSix UTP Patch Cord, 7.5m, Gray
R3229900	CLASSix UTP Patch Cord, 9.0m, Gray
R4513100	CLASSix UTP Patch Cord, 10.0m, Gray
R4528010	CLASSix UTP Patch Cord, 1.0m, Purple
R4528020	CLASSix UTP Patch Cord, 2.0m, Purple
R4528030	CLASSix UTP Patch Cord, 3.0m, Purple
R4528050	CLASSix UTP Patch Cord, 5.0m, Purple
R4609010	CLASSix UTP Patch Cord, 1.0m, Yellow
R4609020	CLASSix UTP Patch Cord, 2.0m, Yellow
R4609030	CLASSix UTP Patch Cord, 3.0m, Yellow
R4609050	CLASSix UTP Patch Cord, 5.0m, Yellow
R4610010	CLASSix UTP Patch Cord, 1.0m, Black
R4610020	CLASSix UTP Patch Cord, 2.0m, Black
R4610030	CLASSix UTP Patch Cord, 3.0m, Black
R4610050	CLASSix UTP Patch Cord, 5.0m, Black
R4523010	CLASSix UTP Patch Cord, 1.0m, Red
R4523020	CLASSix UTP Patch Cord, 2.0m, Red
R4523030	CLASSix UTP Patch Cord, 3.0m, Red
R4523050	CLASSix UTP Patch Cord, 5.0m, Red
R4526010	CLASSix UTP Patch Cord, 1.0m, Green
R4526020	CLASSix UTP Patch Cord, 2.0m, Green
R4526030	CLASSix UTP Patch Cord, 3.0m, Green
R4526050	CLASSix UTP Patch Cord, 5.0m, Green
R4522010	CLASSix UTP Patch Cord, 1.0m, Blue
R4522020	CLASSix UTP Patch Cord, 2.0m, Blue
R4522030	CLASSix UTP Patch Cord, 3.0m, Blue
R4522050	CLASSix UTP Patch Cord, 5.0m, Blue

For other lengths please contact your sales representative.

# CLASSix STP Patch Cords

SMART  
CLASSix  
WARRANTY

CAT-6

## Features

- Patch Cords are used in the work area and cross-connect generic cabling applications
- Comprise a length of eight-wire flexible patch cable, terminated with two eight-position RJ-45 plugs at each end
- Conform to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801 2nd edition and CENELEC EN50173 (2002) for Category 6/CLASS E
- 100% factory tested



## General

- **Storage Temperature**  
-30° to 70°C (22° to 158°F)
- **Operating Temperature**  
-5° to 50°C (23° to 122°F)
- **Flammability Test**  
IEC 332-1 / UL 1581 VW-1
- **Weight**  
43kg/km, nominal



Part #	Description
R3257100	CLASSix STP Patch Cord, 1.0m,Gray
R3257200	CLASSix STP Patch Cord, 2.0m,Gray
R3257300	CLASSix STP Patch Cord, 3.0m,Gray
R3257500	CLASSix STP Patch Cord, 5.0m,Gray
R3257600	CLASSix STP Patch Cord, 6.0m,Gray
R3257900	CLASSix STP Patch Cord, 9.0m,Gray
R4518100	CLASSix STP Patch Cord, 10.0m,Gray

# CLASSix STP Patch Cords


**CAT-6**

Part #	Description
R4563010	CLASSix STP Patch Cord, 1.0m, Purple
R4563020	CLASSix STP Patch Cord, 2.0m, Purple
R4563030	CLASSix STP Patch Cord, 3.0m, Purple
R4563050	CLASSix STP Patch Cord, 5.0m, Purple
R3252010	CLASSix STP Patch Cord, 1.0m, Yellow
R3252020	CLASSix STP Patch Cord, 2.0m, Yellow
R3252030	CLASSix STP Patch Cord, 3.0m, Yellow
R3252050	CLASSix STP Patch Cord, 5.0m, Yellow
R4564010	CLASSix STP Patch Cord, 1.0m, Black
R4564020	CLASSix STP Patch Cord, 2.0m, Black
R4564030	CLASSix STP Patch Cord, 3.0m, Black
R4564050	CLASSix STP Patch Cord, 5.0m, Black
R4565010	CLASSix STP Patch Cord, 1.0m, Red
R4565020	CLASSix STP Patch Cord, 2.0m, Red
R4565030	CLASSix STP Patch Cord, 3.0m, Red
R4565050	CLASSix STP Patch Cord, 5.0m, Red
R4566010	CLASSix STP Patch Cord, 1.0m, Green
R4566020	CLASSix STP Patch Cord, 2.0m, Green
R4566030	CLASSix STP Patch Cord, 3.0m, Green
R4566050	CLASSix STP Patch Cord, 5.0m, Green
R3256010	CLASSix STP Patch Cord, 1.0m, Blue
R3256020	CLASSix STP Patch Cord, 2.0m, Blue
R3256030	CLASSix STP Patch Cord, 3.0m, Blue
R3256050	CLASSix STP Patch Cord, 5.0m, Blue

For other lengths please contact your sales representative.

# Giga UTP Patch Cords

SMART  
GIGA  
WARRANTY

CAT-5E

## Features

- Patch Cords are used in work area, and cross-connect generic cabling applications
- Comprise a length of eight-wire flexible patch cable, terminated with two eight-position RJ-45 plugs at the ends
- Patch Cords feature molded RJ-45 connectors for enhanced life and reliability
- Conform to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 (Ed. 2.2) and CENELEC EN50173 (2002) for Category 5e/Class D



## General

- **Storage Temperature**  
-30° to 70°C (22° to 158°F)
- **Operating Temperature**  
0° to 40°C (32° to 104°F)
- **Flammability Test**  
IEC 332-1 / UL 1581 VW-1

Part #	Description
R3208100	Giga UTP Patch Cord, 1.0m, Gray
R3208200	Giga UTP Patch Cord, 2.0m, Gray
R3208150	Giga UTP Patch Cord, 1.5m, Gray
R3208300	Giga UTP Patch Cord, 3.0m, Gray
R3208500	Giga UTP Patch Cord, 5.0m, Gray
R3210100	Giga UTP Patch Cord, 1.0m, Blue
R3210200	Giga UTP Patch Cord, 2.0m, Blue
R3210300	Giga UTP Patch Cord, 3.0m, Blue
R3210500	Giga UTP Patch Cord, 5.0m, Blue

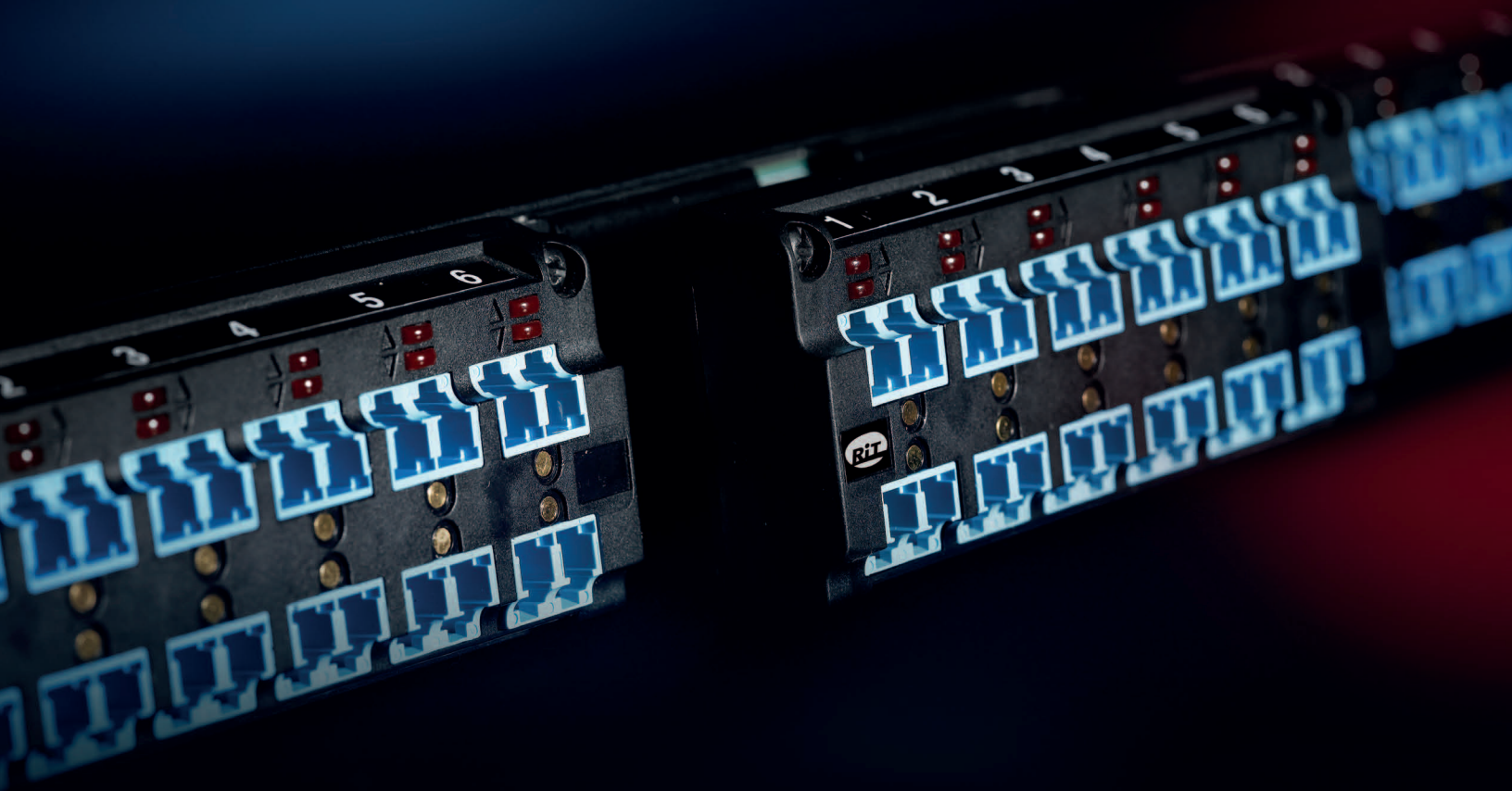
# Giga UTP Patch Cords


**CAT-5E**

Part #	Description
R3211100	Giga UTP Patch Cord, 1.0m, Red
R3211200	Giga UTP Patch Cord, 2.0m, Red
R3211300	Giga UTP Patch Cord, 3.0m, Red
R3211500	Giga UTP Patch Cord, 5.0m, Red
R3212100	Giga UTP Patch Cord, 1.0m, Yellow
R3212200	Giga UTP Patch Cord, 2.0m, Yellow
R3212300	Giga UTP Patch Cord, 3.0m, Yellow
R3212500	Giga UTP Patch Cord, 5.0m, Yellow
R3217100	Giga UTP Patch Cord, 1.0m, Green
R3217200	Giga UTP Patch Cord, 2.0m, Green
R3217300	Giga UTP Patch Cord, 3.0m, Green
R3217500	Giga UTP Patch Cord, 5.0m, Green
R3218100	Giga UTP Patch Cord, 1.0m, Purple
R3218200	Giga UTP Patch Cord, 2.0m, Purple
R3218300	Giga UTP Patch Cord, 3.0m, Purple
R3218500	Giga UTP Patch Cord, 5.0m, Purple

For other lengths please contact your sales representative.





The background features a large white circle on the left side, partially overlapping a light blue area on the right. At the bottom, there are several overlapping geometric shapes in shades of blue, including a large light blue trapezoid and a smaller, darker blue triangle pointing upwards.

# Xlight Fiber Optic Solutions

# Patch Panels for Xlight Fiber Optic Cabling



The RiT line of fiber optic Patch Panels, supporting Single-Mode and Multi-Mode applications, offers a variety of models. In addition, a complete line of accessories for securing, organizing and protecting fusion spliced fibers is available.

Selected Patch Panels are available with or without provisions for attachment to the PatchView™ management system.

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# SMART Xlight HD Solution

## Features

- High Density fiber trays
- Up to 288 LC fibers in 2U (12 cassettes - Vertical)
- Up to 120 LC fibers in 1U (5 cassettes - Horizontal)
- LC adapters including internal shutters
- Easy module installation
- Secure easy access lock/release mechanism
- Open chassis for front and rear module access
- Front and rear cable management
- Designed to improve airflow through the tray
- Innovative labeling card
- Front protective metallic door
- 100% factory tested



## Physical

- **SMART Xlight HD 1U Chassis**  
Height 44.4 mm (1U)  
Width 479 mm / 19"  
Depth 226 mm (face to rear)
- **SMART Xlight HD 2U Chassis**  
Height 88.0 mm (2U)  
Width 484 mm / 19"  
Depth 306 mm (face to rear)
- **Material**  
Steel

- **Colors**  
Black with gray silk-screened markings
- **Environment**  
Operating Temperature -10°C to 60°C  
Storage Temperature -40°C to 85°C  
Humidity 0-90%, non-condensing
- **SMART Xlight HD Modules**  
Height 84.5 mm  
Width 30mm  
Depth 220 mm (160mm without the lock/release mechanism)

Part #	Description
R2397690	SMART Xlight HD Cassette Tray, 120, 1U, Chassis w/o Cassette
R2397990	SMART Xlight HD Cassette Tray, 288, 2U, Chassis w/o Cassette
R3203041	SMART Xlight HD Cassette Blank

# SMART Xlight HD Modules

## Features

- High Density fiber trays
- Available modules:
  - LC-LC (splicing) - 12 LC Duplex adapters with internal shutters
  - LC-MPO (MTP) - 12 LC Duplex adapters with internal shutters & 2 MPO (MTP) adapters on the back. Method A. IL Less than 0.5 dB.
- Available in:
  - Multi-Mode: OM3 & OM4 fibers
  - Single-Mode: OS1/OS2 & supporting G657A2
- Lock/Release mechanism
- Easy module installation
- Designed to improve airflow through the tray
- 100% factory tested



## Physical

- **SMART Xlight HD 1U Chassis**  
Height 44.4 mm (1U)  
Width 479 mm / 19"  
Depth 226 mm (face to rear)
- **SMART Xlight HD 2U Chassis**  
Height 88.0 mm (2U)  
Width 484 mm / 19"  
Depth 306 mm (face to rear)
- **Material**  
Plastic PC-ABS 94V-0
- **Colors**  
Black with gray silk-screened markings
- **Environment**  
Operating Temperature -10°C to 60°C  
Storage Temperature -40°C to 85°C  
Humidity 0-90%, non-condensing

Part #	Description
R2396120	SMART Xlight HD Cassette, 24, LC-LC, MM, Ceramic
R2396110	SMART Xlight HD Cassette, 24, LC-LC, SM
R2397780	SMART Xlight HD Cassette, 24, LC-MPO, MM, OM4, SIL, Ceramic
R2397710	SMART Xlight HD Cassette, 24, LC-MPO, SM

# SMART Xlight HD MPO/MTP Modules

## Features

- High Density fiber trays
- Up to 12 MPO modules in 2U (vertical)
- Up to 5 MPO modules in 1 (horizontal)
- Easy module installation
- Designed to improve airflow though the tray
- 100% factory tested
- Available in:
  - 1 MPO/MTP adapter
  - 2 MPO/MTP adapters
  - 4 MPO/MTP adapters
  - 8 MPO/MTP adapters



## Physical

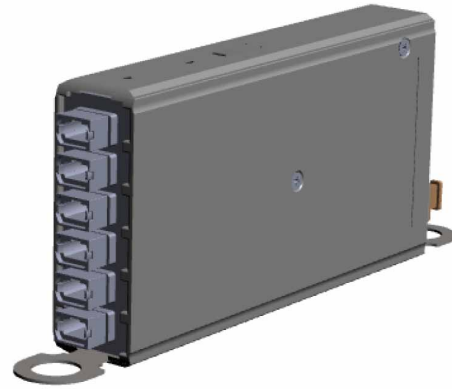
- **SMART Xlight HD 1U Chassis**  
Height 44.4 mm (1U)  
Width 479 mm / 19"  
Depth 226 mm (face to rear)
- **SMART Xlight HD 2U Chassis**  
Height 88.0 mm (2U)  
Width 484 mm / 19"  
Depth 306 mm (face to rear)
- **Material**  
Plastic PC-ABS 94V-0
- **Colors**  
Black with gray silk-screened markings
- **Environment**
  - Operating Temperature -10°C to 60°C
  - Storage Temperature -40°C to 85°C
  - Humidity 0-90%, non-condensing

Part #	Description
R3203042	Smart Xlight HD Cassette Adaptor Plate 1xMPO
R3203043	Smart Xlight HD Cassette Adaptor Plate 2xMPO
R3203044	Smart Xlight HD Cassette Adaptor Plate 4xMPO
R3203045	Smart Xlight HD Cassette Adaptor Plate 8xMPO

# SMART Xlight HD MPO/MTP Cassettes

## Features

- High Density fiber trays
- Up to 12 MPO modules in 2U (vertical)
- Up to 5 MPO modules in 1 (horizontal)
- Easy migration from 10Gbps to 40Gbps
- Easy module installation
- Designed to improve airflow through the tray
- 100% factory tested
- Available in:
  - Two MPO/MTP (back), 12 fibers each, to 3 MPO/MTP (front), 8 fibers each
  - Two MPO/MTP (back), 24 fibers each, to 6 MPO/MTP (front), 8 fibers each



## Physical

- **SMART Xlight HD 1U Chassis**  
Height 44.4 mm (1U)  
Width 479 mm / 19"  
Depth 226 mm (face to rear)
- **SMART Xlight HD 2U Chassis**  
Height 88.0 mm (2U)  
Width 484 mm / 19"  
Depth 306 mm (face to rear)
- **Material**  
Plastic PC-ABS 94V-0
- **Colors**  
Cassis: Black with gray silk-screened markings  
Cassette: Light Gray
- **Environment**  
Operating Temperature -10°C to 60°C  
Storage Temperature -40°C to 85°C  
Humidity 0-90%, non-condensing

Part #	Description
R2397720	SMART Xlight HD Cassette, 24F, 1XMPO(B) to 3XMPO(F), OS2
R2397750	SMART Xlight HD Cassette, 24F, 1XMPO(B) to 3XMPO(F), OM4
R2397730	SMART Xlight HD Cassette, 12F, 2XMPO(B) to 3XMPO(F), OS2
R2397760	SMART Xlight HD Cassette, 12F, 2XMPO(B) to 3XMPO(F), OM4
R2397740	SMART Xlight HD Cassette, 24F, 2XMPO(B) to 6XMPO(F), OS2
R2397770	SMART Xlight HD Cassette, 24F, 2XMPO(B) to 6XMPO(F), OM4

# Xlight SC 24 Patch Panel

## Features

- Supports up to 12 duplex SC adapters (24 fibers) or LC Quad in 1U of rack space
- Pullout drawer enables ease of access to the fiber
- Wide range of fiber optic cabling management accessories, including fiber management clip, splice cassettes, cable entry gland and more
- Single-Mode and Multi-Mode adapter available
- Configurable rack mounting brackets allow for recessed panel mounting, enhancing cable protection
- Large work area for comfortable installation
- Rear cable entry cutouts including one cable entry gland
- Unused adapter ports are covered by port caps (caps are supplied separately)



## Interface

Adapter	Max Number of Adapters	Max Number of Fibers
SC Duplex	12	24
LC Quad	12	48

## General

- **Physical**
  - Height 44 mm / 1.72" (1U)
  - Width 483 mm / 19"
  - Depth 200 mm / 8" (face to rear)
  - Weight 2.6 kg
- **Material**
  - Steel
- **Colors**
  - Black with white silk-screened markings
- **Environment**
  - Operating Temperature -10 - 60°C
  - Storage Temperature -40 - 85°C
  - Humidity 0-90%, non-condensing

Part #	Description
R3202600	Xlight F/O SC 24 Panel. w/o adapters
R4203022	Xlight LC Quad Adapter, MM, Ceramic
R4203023	Xlight LC Quad Adapter, SM, Ceramic
R4203012	Xlight F/O Adapter, SC-SC, Duplex, MM
R4203013	Xlight F/O Adapter, SC-SC, Duplex, SM, PC
R4203006	Xlight F/O Adapter, SC-SC, Duplex, SM, APC
R4203001	Xlight F/O Adapter, ST-SC, Duplex, MM
R4203007	Xlight F/O Adapter, ST-SC, Duplex, SM, PC



# Xlight SC 48 Patch Panel

## Features

- Supports up to 24 Duplex SC adapters (48 fibers) in 1U of rack space
- Supports up to 48 Quad LC adapters (96 fibers) in 1U rack size
- Pullout drawer enables ease of access to the fiber
- Wide range of fiber optic cabling management accessories, including fiber management clip, splice cassettes, cable entry gland and more
- Single-Mode and Multi-Mode adapter available
- Configurable rack mounting brackets allow for recessed panel mounting, enhancing cable protection
- Large work area for comfortable installation
- Rear cable entry cutouts including one cable entry gland
- Unused adapter ports are covered by port caps (caps are supplied separately)

## Interface

Adapter	Max Number of Adapters	Max Number of Fibers
SC Duplex	24	48
LC Quad	24	96



## General

- **Physical**
  - Height 44 mm / 1.72" (1U)
  - Width 483 mm / 19"
  - Depth 200 mm / 8" (face to rear)
  - Weight 2.6 kg
- **Material**
  - Steel
- **Colors**
  - Black with white silk-screened markings
- **Environment**
  - Operating Temperature -10 - 60°C
  - Storage Temperature -40 - 85°C
  - Humidity 0-90%, non-condensing

Part #	Description
R3202700	Xlight F/O SC 48 Panel. w/o adapters
R4203022	Xlight LC Quad Adapter, MM, Ceramic
R4203023	Xlight LC Quad Adapter, SM, Ceramic
R4203012	Xlight F/O Adapter, SC-SC, Duplex, MM
R4203013	Xlight F/O Adapter, SC-SC, Duplex, SM, PC
R4203006	Xlight F/O Adapter, SC-SC, Duplex, SM, APC
R4203001	Xlight F/O Adapter, ST-SC, Duplex, MM
R4203007	Xlight F/O Adapter, ST-SC, Duplex, SM, PC

# Xlight Modular Patch Panel

## Features

- Very high density, supports up to 24 duplex LC adapters (48 fibers) and simplex SC adapters (24 fibers) in 1U of rack space
- Pullout drawer enables ease of access to the fiber
- Wide range of fiber optic cabling management accessories, including fiber management clip, splice cassettes, cable entry gland and more
- Single-Mode and Multi-Mode adapter available
- Configurable rack mounting brackets allow for recessed panel mounting, enhancing cable protection
- Large work area for comfortable installation
- Rear cable entry cutouts including one cable entry gland
- Unused adapter ports are covered by port caps (caps are supplied separately)

## Accessories

The panel includes fiber management kit, one cable entry gland (PG13.5), splice cassette, and splice holders. Caps for unused port are provided separately.

## Interface

Adapter	Max Number of Adapters	Max Number of Fibers
SC Duplex	24	48
SC Simplex	24	24



## General

- **Physical**
  - Height 44 mm / 1.72" (1U)
  - Width 483 mm / 19"
  - Depth 200 mm / 8" (face to rear)
  - Weight 2.6 kg
- **Material**
  - Steel
- **Colors**
  - Black with white silk-screened markings
- **Environment**
  - Operating Temperature -10 - 60°C
  - Storage Temperature -40 - 85°C
  - Humidity 0-90%, non-condensing

Part #	Description
R3196400	Xlight F/O Modular Panel. w/o adapters
R4203020	Xlight LC Duplex Adapter, MM, Ceramic
R4203021	Xlight LC Duplex Adapter, SM, Ceramic
R4203010	Xlight F/O Adapter, SC-SC, Simplex, SM, PC
R4209100	Xlight MPO/MTP, Aqua, MM adapter
R4209200	Xlight MPO/MTP, Black, SM adapter

# SMART LC-MPO 48 Patch Panel

## Features

- Comprising 24 duplex LC adapters at the front and 4 MPO adapters at the back
- High density, 1U of rack space
- Preassembled 24 MM or SM LC adapters and 4 MPO adapters
- Contain 4 LC-MPO fan outs installed
- Rear interface 4 MPO adapters
- Full IL and RL test reports are included
- Rear metal MPO protective bracket
- Support OM-3 Multi-Mode applications
- External 14-pin PatchView connector offering a real plug-and-play panel
- Pullout drawer enables ease of access to the fiber cables
- Configurable rack mounting brackets allow for recessed panel mounting and enhanced cable protection

## General

- **Physical**
  - Height 43.7 mm / 1.72" (1U)
  - Width 482.6 mm / 19" (adjustable to 23")
  - Depth 290 mm / 11.4" (face to rear including MPO bracket)
  - Weight (including adapters and packaging): 4.2 kg (9.1 lb)



- **Material**  
Steel
- **Colors**  
Black with gray silk-screened markings
- **Environment**
  - Operating Temperature -10°C to 60°C
  - Storage Temperature -40°C to 85°C
  - Humidity 0-90%, non-condensing
- **Compliance with International EMC Standards**  
The SMART LC-MPO 48 Patch Panel is designed to comply with EN-55022, Class B (Europe) and FCC Part 15, Subpart J, Class A (USA)

Part #	Description
R4297460	SMART LC-MPO 48, OM4, Super IL
R4297410	SMART LC-MPO 48, SM, Super IL
R3203038	Blank (Pack of 3)

# Hybrid Modular Panel

## Features

- Supports up to 24 keystones, 24 Duplex LC adapters (48 fibers), or a mixture of the two, in 1U of rack space
- Different RiT keystone jacks may be mixed on the same panel
- Compatible with selected types of RiT keystone jacks
- Pullout drawer enables ease of access to the fiber
- Wide range of fiber optic cabling management accessories, including 4 fiber management clips and one cable entry gland
- Splice cassettes and cable grounding kits can be ordered separately
- Single-Mode and Multi-Mode adapters available
- Configurable rack mounting brackets allow for recessed panel mounting, enhancing cable protection
- Large work area for comfortable installation
- Rear cable entry cutouts
- Port caps can be ordered separately to cover unused ports
- Models incorporating RiT SMARTen Jacks conform to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801 2nd edition and CENELEC EN50173 for Category 6A/CLASS E<sub>A</sub>
- Models incorporating RiT CLASSix Jacks conform to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801 2nd edition and CENELEC EN50173 for Category 6/Class E
- Models incorporating RiT Giga Jacks conform to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801 2nd edition and CENELEC EN50173 for Category 5e/Class D



Part #	Description
R3196200	Hybrid Modular Panel, w/o adapters
R3012010	LC Duplex-RJ45 Insert

# Splice Cassette Kit

## Features

- Splice sleeves holder
- Each cassette can support up to 24 sleeves
- Stackable design
- Mounted on fiber tray using adhesive pad or mounting screws (sold separately)
- Transparent covers
- Spacious interior maintains 30mm fiber bend radius and allows storage of either 250µm or 900µm buffered fiber



## Mechanical parameters:

WxDxH	168x124x13mm
Net Weight	81g
Material	ABS
Color	Blue
Operating Temperature	-40 to +50 C
Compliant to	RoHS, Reach

Accessories		R3202600 Xlight F/O SC 24 Panel	R3202700 Xlight F/O SC 48 Panel	R3196400 Xlight F/O Modular Panel	R41970X4 SMART F/O Panel, 48, LC	R419799X SMART Xlight LC 4U Cassette Tray	R419609X SMART LC-LC 96 Cassette Panel, Chassis	R41963XX Xlight MPO 24 Tray, MM	R602104X PatchView+ MPO 24 Tray	R6021020 PatchView+ Fiber 96 Tray
R3203010	Cable Routing Ring Kit	1 unit included	1 unit included	1 unit included	X					
R3203015	F/O Cable Ground Kit	X	X	X	X	X	X	X	X	X
R3203020/40	Splice Cassette Kit (RiT or FFab)	Include 1 unit	Include 1 unit	Include 1 unit	X					
R3203021	Splice Cassette Kit Expand(RiT)				X					
R3203023	Protection Sleeve Holder (8slv)									
R3203027	Fusion Protection Sleeve (100)	X	X	X	X		X			X
R3203030	HD Splice cassette LC96 (BR)						X			
R3203034	Cable Entry Gland (1Unit)	1 unit included	1 unit included	1 unit included	1 unit included		2 unit included	X (Optional)	X (Optional)	1 unit included (optional 2)
R3203035	Fiber management Clip (4Units)				1 unit included	4 unit included	1 unit included	1 unit included	1 unit included	

Part #	Description
R3203020	Splice Cassette
R3203027	Fusion Protection Sleeve (100units)

# Communication Outlets for Fiber Optic Cabling



RiT Technologies offers communication outlets for fiber-to-the-desk applications. RiT carries a complete line of fiber optic adapters. LC, SC and ST adapters are available in Single-Mode and Multi-Mode configurations.

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## Section 8

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Sloped LC Faceplate & Wall Box .....	101
Xlight F/O Outlets LC & SC .....	102
Xlight FTTX Outlet Box .....	103

## Flash F/O Communication Outlets

### Features

- Low profile surface mount design
- 2, 4 and 6 fiber models
- Models for LC, SC, ST adapters
- Vertical drop cable entry dramatically reduces fiber optic cable tension and strain, and enhances cable protection
- Routing rings in 4 and 6 fiber models provide orderly cable storage and routing while maintaining minimum bend radius
- Snap-on cover, no visible screws
- Simple assembly and installation for reliable performance

### Interface

- **Interconnection**  
1 LC duplex, 1 SC duplex, 2 ST adapters
- **Cable Entry, Routing and Clamping**  
Breakaway sections on three sides as well as a cutout in the back for cable (raceway) entry. Cable-ties are used for cable routing and clamping. The cable ties are attached through special clamping saddles located adjacent to the entry holes and the port connectors.
- **Excess Cable Storage**  
Two routing rings



### General

#### Physical

##### 2-Fiber

Height: 85 mm / 3.4"  
Width: 85 mm / 3.4"  
Depth: 30 mm / 1.18"  
Weight: SC - 55 gr, ST - 64 gr

##### 4-Fiber

Height: 102 mm / 4"  
Width: 130 mm / 5.12"  
Depth: 30 mm / 1.18"  
Weight: SC - 100 gr, ST - 118 gr

##### 6-Fiber

#### Material

Halogen Free Flame Retardant thermoplastic (LSZH)

#### Color

White or Ivory

#### Environment

Temperature: -40° to 85°C  
Humidity: 0-90%, non-condensing

Part #	Description
R3164205	F/O Communication Outlet 2-Simplex, ST, White
R3164207	F/O Communication Outlet 1-Duplex, SC, White

## Sloped LC Faceplate & Wall Box

### Features

- Sloped faceplate design for reducing cable tension and strain, and greatly enhancing cable protection
- Accommodate two IEC 603-7 and FCC 68.500 standards keystone opening
- Fall-down shutters, allowing to use 1 or 2 LC inserts
- Allowing to mix Copper and Fiber at the same outlet
- Simple assembly and cable installation for reliable performance
- Faceplates include write-on identification labels
- Faceplates, Wall box, LC insert and LC adapters are sold separately.



### General

- **Material**  
Housing Polycarbonate UL 94V-0
- **Physical dimensions (Faceplate & box)**  
Height: 86.00 mm  
Width: 86.00 mm  
Depth: 50.00 mm Box only 38.00 mm
- **Flammability**  
Conforms to UL 94V-0
- **Standards**  
Jack openings comply with IEC 60603-7 and FCC 68.500

Part #	Description
R3011520	Sloped Faceplate, Shutters, 2-Ports, 86x86, White
R3011620	Wall Box, 86x86, White
R4525000	LC Duplex-RJ45 Insert



## Xlight F/O Outlets LC & SC

### Features

- Low profile mount design
- Available inserts:
  - Pre-assemble LC Duplex MM & SM
  - Pre-assemble SC Duplex MM & SM
  - Blank
- Conforms to 94V-0
- Simple assembly and installation for reliable performance

### General

#### Physical

##### Faceplate

Height: 81 mm  
 Width: 81 mm  
 Depth: 8.2 mm  
 Weight: 55 gr

##### Insertion Loss

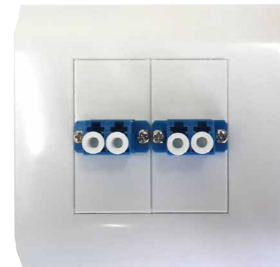
SC SM (Typ./max): 0.15/0.3 dB  
 SC MM (Typ./max): 0.2/0.4 dB  
 LC SM (Typ./max): 0.15/0.2 dB  
 LC MM (Typ./max): 0.2/0.3 dB

#### Color

White

#### Environment

Temperature: -40° to 85°C  
 Humidity: 0-90%, non-condensing



Part #	Description
R3011204	LC Duplex, MM, Insert
R3011202	LC Duplex, SM, Insert
R3011203	SC Duplex, MM, Insert
R3011201	SC Duplex, SM, Insert
R3011205	Blank Insert
R3011210	Outlet Faceplate
R3011220	Outlet Box

# Xlight FTTX Outlet Box

## Features

- Multiple cable entry points
- Integrated heatshrink splice holder
- Hinged splice Tray
- Holds up to 4 single fibers 1 x SC Duplex or 1 x LC Quad
- Integrated fibre management
- Integrated transparent shutter protects against laser exposure and dust

## General

- **Material**  
Plastic ABS
- **Physical dimensions**  
Height: 116.00 mm  
Width: 86.00 mm  
Depth: 23.00 mm
- **Color**  
White
- **Flammability**  
Conforms to UL 94V-0

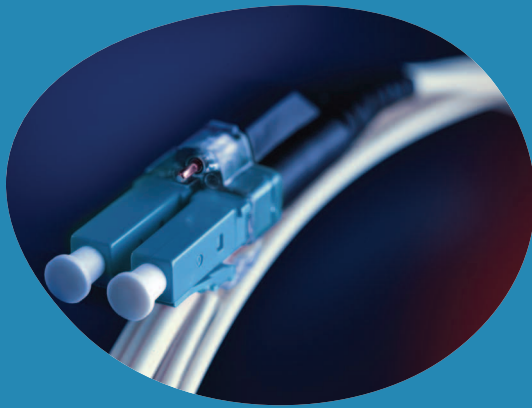
## Note

Adapters, pigtails and splice sleeves sold seperately.



Part #	Description
R4180050	Xlight FTTX Outlet Box

# Cables & Cords for Fiber Optic Cabling

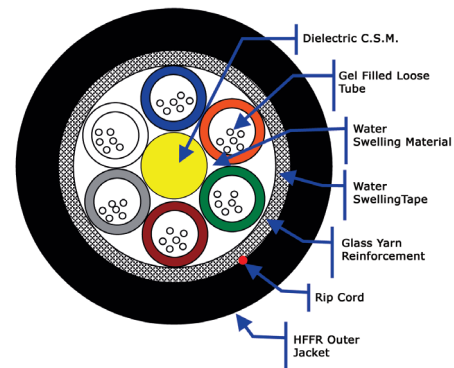
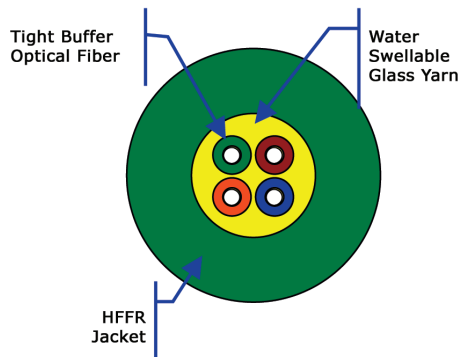


RiT carries a full line of outdoor and indoor fiber optic cables, supporting Single-Mode and Multi-Mode applications. The cables are available with several fiber types – Single-Mode, Multi-Mode 50/125: OM3 & OM4 regular and bend insensitive.

## Section 9

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## F/O Glass Yarn Cable Single Loose Tube and Multi Loose Tube



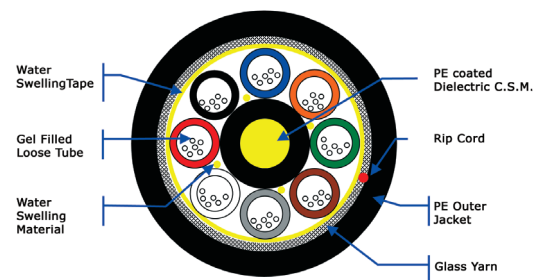
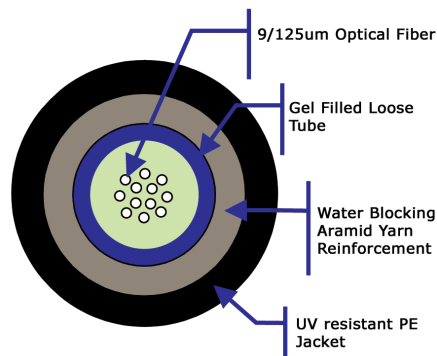
- Single Loose Tube: a compact loose tube cable contains a single loose tube with up to 12 fibers
- Multi Loose Tube: A loose tube cable with a dielectric central member contains up to 12 tubes, each tube contains up to 12 fibers
- Color coded fibers for easy identification
- Operating temperature range:
- Single Loose Tube: -20°C-+70°C
- Multi Loose Tube: -40°C-+70°C
- Water blocking thixotropic gel prevents ingress of water
- Dry water swelling glass yarn for strength and prevention of water penetration
- Available with several fiber types – Single-Mode, Multi-Mode 50/125: OM3 & OM4 regular and bend insensitive

## F/O Glass Yarn Cable Single Loose Tube and Multi Loose Tube

Part Number	Description
<b>Single Loose Tube</b>	
R2600040	Indoor F/O Cable, Single Loose Tube, MM 62.5, 4 Fibers, Dry Water Blk, Glass Yarn, LSZH
R2600080	Indoor F/O Cable, Single Loose Tube, MM 62.5, 8 Fibers, Dry Water Blk, Glass Yarn, LSZH
R2600120	Indoor F/O Cable, Single Loose Tube, MM 62.5, 12 Fibers, Dry Water Blk, Glass Yarn, LSZH
R2601040	Indoor F/O Cable, Single Loose Tube, SM, 4 Fibers, Dry Water Blk, Glass Yarn, LSZH
R2601080	Indoor F/O Cable, Single Loose Tube, SM, 8 Fibers, Dry Water Blk, Glass Yarn, LSZH
R2601120	Indoor F/O Cable, Single Loose Tube, SM, 12 Fibers, Dry Water Blk, Glass Yarn, LSZH
R2602040	Indoor F/O Cable, Single Loose Tube, MM 50, 4 Fibers, Dry Water Blk, Glass Yarn, LSZH
R2602080	Indoor F/O Cable, Single Loose Tube, MM 50, 8 Fibers, Dry Water Blk, Glass Yarn, LSZH
R2602120	Indoor F/O Cable, Single Loose Tube, MM 50, 12 Fibers, Dry Water Blk, Glass Yarn, LSZH
R2603040	Indoor F/O Cable, Single Loose Tube, MM 50, OM3, 4 Fibers, Dry Water Blk, Glass Yarn, LSZH
R2603080	Indoor F/O Cable, Single Loose Tube, MM 50, OM3, 8 Fibers, Dry Water Blk, Glass Yarn, LSZH
R2603120	Indoor F/O Cable, Single Loose Tube, MM 50, OM3, 12 Fibers, Dry Water Blk, Glass Yarn, LSZH
R2604040	Indoor F/O Cable, Single Loose Tube, MM 50, OM4, 4 Fibers, Dry Water Blk, Glass Yarn, LSZH
R2604080	Indoor F/O Cable, Single Loose Tube, MM 50, OM4, 8 Fibers, Dry Water Blk, Glass Yarn, LSZH
R2604120	Indoor F/O Cable, Single Loose Tube, MM 50, OM4, 12 Fibers, Dry Water Blk, Glass Yarn, LSZH
<b>Multi Loose Tube</b>	
R2610240	Indoor F/O Cable, Multi Loose Tube, MM62.5, 24 Fibers, Dry Water Blk, Glass Yarn, LSZH
R2611240	Indoor F/O Cable, Multi Loose Tube, SM, 24 Fibers, Dry Water Blk, Glass Yarn, LSZH
R2612240	Indoor F/O Cable, Multi Loose Tube, MM 50, 24 Fibers, Dry Water Blk, Glass Yarn, LSZH
R2613240	Indoor F/O Cable, Multi Loose Tube, MM 50, OM3, 24 Fibers, Dry Water Blk, Glass Yarn, LSZH
R2614240	Indoor F/O Cable, Multi Loose Tube, MM 50, OM4, 24 Fibers, Dry Water Blk, Glass Yarn, LSZH

For other cable configuration please contact your sales representative.

## F/O Dielectric Armoring Single Loose Tube and Multi Loose Tube Cables



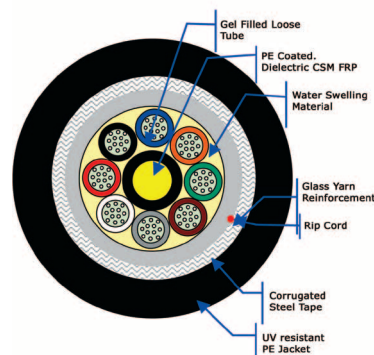
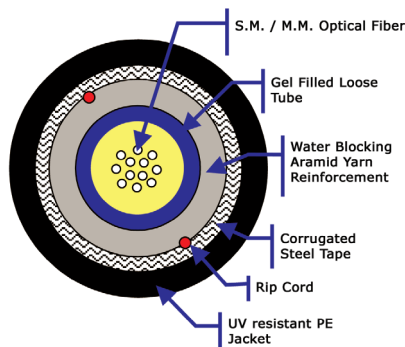
- Single Loose Tube: a central loose tube cable with up to 12 optical fibers
- Multi Loose Tube: a loose tube cable with a dielectric central member containing up to 12 tubes, each containing up to 8 fibers
- Color coded fibers for easy identification
- Operating temperature range:  
Single Loose Tube: -20°C-+70°C  
Multi Loose Tube: -40°C-+70°C
- Water blocking thixotropic gel prevents ingress of water
- Dry water swelling glass yarn for strength, armoring and prevention of water penetration
- Extra reinforcement strength members
- UV resistant, PE jacket
- Available with several fiber types – Single-Mode, Multi-Mode 50/125: OM3 & OM4 regular and bend insensitive

## F/O Dielectric Armoring Single Loose Tube and Multi Loose Tube Cables

Part #	Description
R2611121	Indoor-Outdoor F/O Cable, Multi Loose Tube, SM, 12 Fibers, Dry Water Blk, Dielectric Armor, PE
R2611241	Indoor-Outdoor F/O Cable, Multi Loose Tube, SM, 24 Fibers, Dry Water Blk, Dielectric Armor, PE
R2612041	Indoor-Outdoor F/O Cable, Multi Loose Tube, MM 50, 4 Fibers, Dry Water Blk, Dielectric Armor, PE
R2612081	Indoor-Outdoor F/O Cable, Multi Loose Tube, MM 50, 8 Fibers, Dry Water Blk, Dielectric Armor, PE
R2612121	Indoor-Outdoor F/O Cable, Multi Loose Tube, MM 50, 12 Fibers, Dry Water Blk, Dielectric Armor, PE
R2612241	Indoor-Outdoor F/O Cable, Multi Loose Tube, MM 50, 24 Fibers, Dry Water Blk, Dielectric Armor, PE
R2613041	Indoor-Outdoor F/O Cable, Multi Loose Tube, MM 50, OM3, 4 Fibers, Dry Water Blk, Dielectric Armor, PE
R2613081	Indoor-Outdoor F/O Cable, Multi Loose Tube, MM 50, OM3, 8 Fibers, Dry Water Blk, Dielectric Armor, PE
R2613121	Indoor-Outdoor F/O Cable, Multi Loose Tube, MM 50, OM3, 12 Fibers, Dry Water Blk, Dielectric Armor, PE
R2613241	Indoor-Outdoor F/O Cable, Multi Loose Tube, MM 50, OM3, 24 Fibers, Dry Water Blk, Dielectric Armor, PE
R2614041	Indoor-Outdoor F/O Cable, Multi Loose Tube, MM 50, OM4, 4 Fibers, Dry Water Blk, Dielectric Armor, PE
R2614081	Indoor-Outdoor F/O Cable, Multi Loose Tube, MM 50, OM4, 8 Fibers, Dry Water Blk, Dielectric Armor, PE
R2614121	Indoor-Outdoor F/O Cable, Multi Loose Tube, MM 50, OM4, 12 Fibers, Dry Water Blk, Dielectric Armor, PE
R2614241	Indoor-Outdoor F/O Cable, Multi Loose Tube, MM 50, OM4, 24 Fibers, Dry Water Blk, Dielectric Armor, PE

For other cable configuration please contact your sales representative.

## F/O Outdoor Corrugated Steel Single Loose Tube and Multi Loose Tube Cables



- Single Loose Tube: a central loose tube cable with up to 12 optical fibers
- Multi Loose Tube: a loose tube cable with a dielectric central member containing up to 12 tubes, each containing up to 8 fibers
- Color coded fibers for easy identification  
Operating temperature range:  
Single Loose Tube:  $-20^{\circ}\text{C}$ – $+70^{\circ}\text{C}$   
Multi Loose Tube:  $-40^{\circ}\text{C}$ – $+70^{\circ}\text{C}$
- Water blocking thixotropic gel prevents ingress of water
- Dry water swelling glass yarn for strength, armoring and prevention of water penetration
- Extra reinforcement strength members
- UV resistant, PE jacket
- Available with several fiber types – Single-Mode, Multi-Mode 50/125: OM3 & OM4 regular and bend insensitive



## F/O Outdoor Corrugated Steel Single Loose Tube and Multi Loose Tube Cables

Part Number	Description
<b>Single Loose Tube</b>	
R2600042	Outdoor F/O Cable, Single Loose Tube, MM 62.5, 4 Fibers, Dry Water Blk, Corrugated Steel, PE
R2600082	Outdoor F/O Cable, Single Loose Tube, MM 62.5, 8 Fibers, Dry Water Blk, Corrugated Steel, PE
R2600122	Outdoor F/O Cable, Single Loose Tube, MM 62.5, 12 Fibers, Dry Water Blk, Corrugated Steel, PE
R2601042	Outdoor F/O Cable, Single Loose Tube, SM, 4 Fibers, Dry Water Blk, Corrugated Steel, PE
R2601082	Outdoor F/O Cable, Single Loose Tube, SM, 8 Fibers, Dry Water Blk, Corrugated Steel, PE
R2601122	Outdoor F/O Cable, Single Loose Tube, SM, 12 Fibers, Dry Water Blk, Corrugated Steel, PE
R2602042	Outdoor F/O Cable, Single Loose Tube, MM 50, 4 Fibers, Dry Water Blk, Corrugated Steel, PE
R2602082	Outdoor F/O Cable, Single Loose Tube, MM 50, 8 Fibers, Dry Water Blk, Corrugated Steel, PE
R2602122	Outdoor F/O Cable, Single Loose Tube, MM 50, 12 Fibers, Dry Water Blk, Corrugated Steel, PE
R2603042	Outdoor F/O Cable, Single Loose Tube, MM 50, OM3, 4 Fibers, Dry Water Blk, Corrugated Steel, PE
R2603082	Outdoor F/O Cable, Single Loose Tube, MM 50, OM3, 8 Fibers, Dry Water Blk, Corrugated Steel, PE
R2603122	Outdoor F/O Cable, Single Loose Tube, MM 50, OM3, 12 Fibers, Dry Water Blk, Corrugated Steel, PE
R2604042	Outdoor F/O Cable, Single Loose Tube, MM 50, OM4, 4 Fibers, Dry Water Blk, Corrugated Steel, PE
R2604082	Outdoor F/O Cable, Single Loose Tube, MM 50, OM4, 8 Fibers, Dry Water Blk, Corrugated Steel, PE
R2604122	Outdoor F/O Cable, Single Loose Tube, MM 50, OM4, 12 Fibers, Dry Water Blk, Corrugated Steel, PE

For other cable configuration please contact your sales representative.

## F/O Outdoor Corrugated Steel Single Loose Tube and Multi Loose Tube Cables

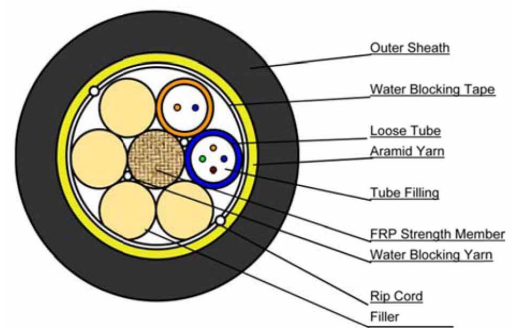
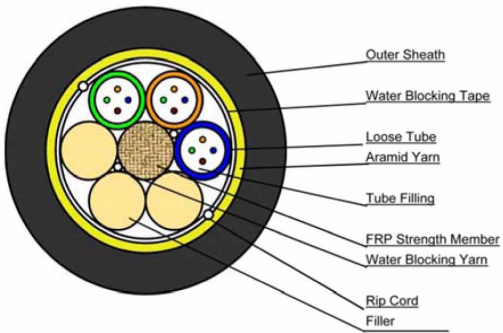
Part Number	Description
<b>Single Loose Tube</b>	
R2600042	Outdoor F/O Cable, Single Loose Tube, MM 62.5, 4 Fibers, Dry Water Blk, Corrugated Steel, PE
R2600082	Outdoor F/O Cable, Single Loose Tube, MM 62.5, 8 Fibers, Dry Water Blk, Corrugated Steel, PE
R2600122	Outdoor F/O Cable, Single Loose Tube, MM 62.5, 12 Fibers, Dry Water Blk, Corrugated Steel, PE
R2601042	Outdoor F/O Cable, Single Loose Tube, SM, 4 Fibers, Dry Water Blk, Corrugated Steel, PE
R2601082	Outdoor F/O Cable, Single Loose Tube, SM, 8 Fibers, Dry Water Blk, Corrugated Steel, PE
R2601122	Outdoor F/O Cable, Single Loose Tube, SM, 12 Fibers, Dry Water Blk, Corrugated Steel, PE
R2602042	Outdoor F/O Cable, Single Loose Tube, MM 50, 4 Fibers, Dry Water Blk, Corrugated Steel, PE
R2602082	Outdoor F/O Cable, Single Loose Tube, MM 50, 8 Fibers, Dry Water Blk, Corrugated Steel, PE
R2602122	Outdoor F/O Cable, Single Loose Tube, MM 50, 12 Fibers, Dry Water Blk, Corrugated Steel, PE
R2603042	Outdoor F/O Cable, Single Loose Tube, MM 50, OM3, 4 Fibers, Dry Water Blk, Corrugated Steel, PE
R2603082	Outdoor F/O Cable, Single Loose Tube, MM 50, OM3, 8 Fibers, Dry Water Blk, Corrugated Steel, PE
R2603122	Outdoor F/O Cable, Single Loose Tube, MM 50, OM3, 12 Fibers, Dry Water Blk, Corrugated Steel, PE
R2604042	Outdoor F/O Cable, Single Loose Tube, MM 50, OM4, 4 Fibers, Dry Water Blk, Corrugated Steel, PE
R2604082	Outdoor F/O Cable, Single Loose Tube, MM 50, OM4, 8 Fibers, Dry Water Blk, Corrugated Steel, PE
R2604122	Outdoor F/O Cable, Single Loose Tube, MM 50, OM4, 12 Fibers, Dry Water Blk, Corrugated Steel, PE
<b>Multi Loose Tube</b>	
R2610042	Outdoor F/O Cable, Multi Loose Tube, MM 62.5, 4 Fibers, Dry Water Blk, Corrugated Steel, PE
R2610082	Outdoor F/O Cable, Multi Loose Tube, MM 62.5, 8 Fibers, Dry Water Blk, Corrugated Steel, PE
R2610122	Outdoor F/O Cable, Multi Loose Tube, MM 62.5, 12 Fibers, Dry Water Blk, Corrugated Steel, PE
R2610242	Indoor-Outdoor F/O Cable, Multi Loose Tube, MM 62.5, 24 Fibers, Dry Water Blk, Dielectric Armor, PE
R2611042	Outdoor F/O Cable, Multi Loose Tube, SM, 4 Fibers, Dry Water Blk, Corrugated Steel, PE
R2611082	Outdoor F/O Cable, Multi Loose Tube, SM, 8 Fibers, Dry Water Blk, Corrugated Steel, PE
R2611122	Outdoor F/O Cable, Multi Loose Tube, SM, 12 Fibers, Dry Water Blk, Corrugated Steel, PE
R2611242	Outdoor F/O Cable, Multi Loose Tube, SM, 24 Fibers, Dry Water Blk, Corrugated Steel, PE
R2612042	Outdoor F/O Cable, Multi Loose Tube, MM 50, 4 Fibers, Dry Water Blk, Corrugated Steel, PE
R2612082	Outdoor F/O Cable, Multi Loose Tube, MM 50, 8 Fibers, Dry Water Blk, Corrugated Steel, PE

## F/O Outdoor Corrugated Steel Single Loose Tube and Multi Loose Tube Cables

Part Number	Description
R2612122	Outdoor F/O Cable, Multi Loose Tube, MM 50, 12 Fibers, Dry Water Blk, Corrugated Steel, PE
R2612242	Outdoor F/O Cable, Multi Loose Tube, MM 50, 24 Fibers, Dry Water Blk, Corrugated Steel, PE
R2613042	Outdoor F/O Cable, Multi Loose Tube, MM 50, OM3, 4 Fibers, Dry Water Blk, Corrugated Steel, PE
R2613082	Outdoor F/O Cable, Multi Loose Tube, MM 50, OM3, 8 Fibers, Dry Water Blk, Corrugated Steel, PE
R2613122	Outdoor F/O Cable, Multi Loose Tube, MM 50, OM3, 12 Fibers, Dry Water Blk, Corrugated Steel, PE
R2613242	Outdoor F/O Cable, Multi Loose Tube, MM 50, OM3, 24 Fibers, Dry Water Blk, Corrugated Steel, PE
R2614042	Outdoor F/O Cable, Multi Loose Tube, MM 50, OM4, 4 Fibers, Dry Water Blk, Corrugated Steel, PE
R2614082	Outdoor F/O Cable, Multi Loose Tube, MM 50, OM4, 8 Fibers, Dry Water Blk, Corrugated Steel, PE
R2614122	Outdoor F/O Cable, Multi Loose Tube, MM 50, OM4, 12 Fibers, Dry Water Blk, Corrugated Steel, PE
R2614242	Outdoor F/O Cable, Multi Loose Tube, MM 50, OM4, 24 Fibers, Dry Water Blk, Corrugated Steel, PE

For other cable configuration please contact your sales representative.

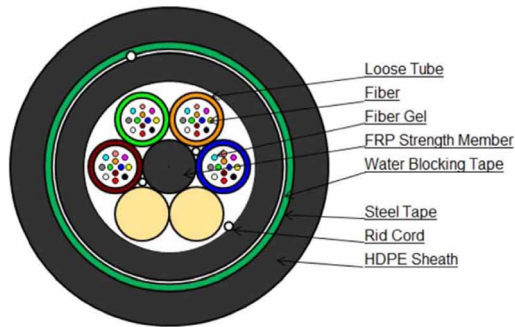
## ADSS Cable - Aramid Yarn, SM



- The lifespan is over 30 years
- Can be used in areas suffered from frequent lightning
- Central strength member FRP gives high tensile strength
- Reliable performance of moisture proof and waterproof
- Ideal for transmission lines with high electrical field strength
- HDPE sheath ensures safety of cable in high voltage environment
- Suitable for installation on poles and on the power distribution network
- Aerial self-supporting applications at short, medium and long span distances
- All-dielectric structure and light weight provide easy installation and good electromagnetic resistance

Part Number	Description
R2960020	ADSS Aerial F/O Cable, Loose Tube, SM, G652D, 2 Fibers, Central FRP, Water Blocking Tape & Yarn, Aramid Yarns, UV Resistant, HDPE
R2960040	ADSS Aerial F/O Cable, Loose Tube, SM, G652D, 4 Fibers, Central FRP, Water Blocking Tape & Yarn, Aramid Yarns, UV Resistant, HDPE
R2960060	ADSS Aerial F/O Cable, Loose Tube, SM, G652D, 6 Fibers, Central FRP, Water Blocking Tape & Yarn, Aramid Yarns, UV Resistant, HDPE
R2960120	ADSS Aerial F/O Cable, Loose Tube, SM, G652D, 12 Fibers, Central FRP, Water Blocking Tape & Yarn, Aramid Yarns, UV Resistant, HDPE
R2960240	ADSS Aerial F/O Cable, Loose Tube, SM, G652D, 24 Fibers, Central FRP, Water Blocking Tape & Yarn, Aramid Yarns, UV Resistant, HDPE

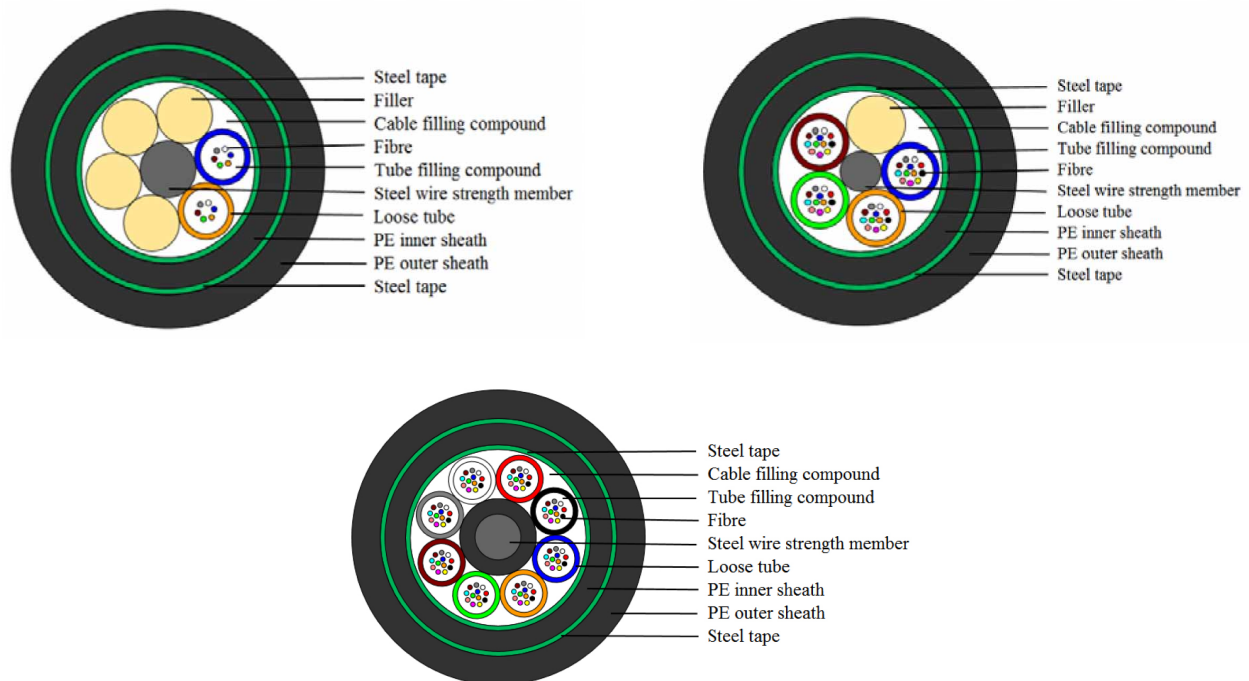
## Armored Wet-Dry Core Cable



- The unique second coating and stranding technology provide the fibers with enough space and bending endurance, which ensure good optical property of the fibers in the cable
- Optical fibers are housed in loose tubes that are made of high-modulus plastic and filled with waterproof compounds.
- FRP are applied as strength member.
- Loose tubes are SZ stranded around the central strength member.
- High Density Polyethylene with Double layer, anti-termite suitable for direct burial and protection against rodent.
- Water blocking tape and yarns are used in and over the cable core to prevent it from water ingress.
- Polyethylene sheath are applied as outer sheath.
- Accurate pressure control ensures good mechanical and temperature performance.
- High quality raw material guarantees the long service life of cycle.

Part Number	Description
R2930061	F/O Cable, Loose Tube, SM, G652D, 6 (1x6) Fibers, Wet-Dry, Anti Rodent, Central FRP, Steel Tape, Double-Jacketed HDPE
R2930121	F/O Cable, Loose Tube, SM, G652D, 12 (2x6) Fibers, Wet-Dry, Anti Rodent, Central FRP, Steel Tape, Double-Jacketed HDPE
R2930241	F/O Cable, Loose Tube, SM, G652D, 24 (4x6) Fibers, Wet-Dry, Anti Rodent, Central FRP, Steel Tape, Double-Jacketed HDPE
R2930481	F/O Cable, Loose Tube, SM, G652D, 48 (4x12) Fibers, Wet-Dry, Anti Rodent, Central FRP, Steel Tape, Double-Jacketed HDPE
R2930721	F/O Cable, Loose Tube, SM, G652D, 72 (6x12) Fibers, Wet-Dry, Anti Rodent, Central FRP, Steel Tape, Double-Jacketed HDPE
R2930961	F/O Cable, Loose Tube, SM, G652D, 96 (8x12) Fibers, Wet-Dry, Anti Rodent, Central FRP, Steel Tape, Double-Jacketed HDPE
R2930151	F/O Cable, Loose Tube, SM, G652D, 144 (12x12) Fibers, Wet-Dry, Anti Rodent, Central FRP, Steel Tape, Double-Jacketed HDPE

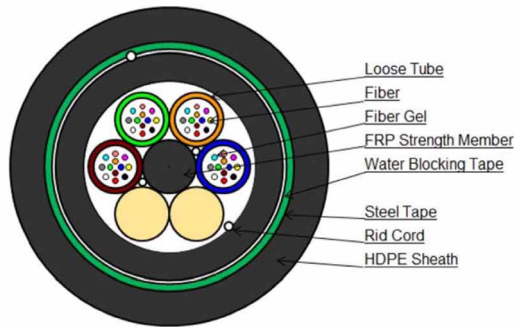
## Direct Burial Cable



- The unique second coating and stranding technology provide the fibres with enough space and bending endurance, which ensure good optical property of the fibres in the cable
- Accurate process control ensures good mechanical and temperature performance
- High quality raw material guarantees the long service life of cable

Part Number	Description
R2930127	Direct Burial F/O Cable, SM, 2x6 Fibers, Central Steel Wire, Anti Rodent, Double-Jacketed Steel Tape + HDPE
R2930487	Direct Burial F/O Cable, SM, 4x12 Fibers, Central Steel Wire, Anti Rodent, Double-Jacketed Steel Tape + HDPE
R2930967	Direct Burial F/O Cable, SM, 8x12 Fibers, Central Steel Wire, Anti Rodent, Double-Jacketed Steel Tape + HDPE

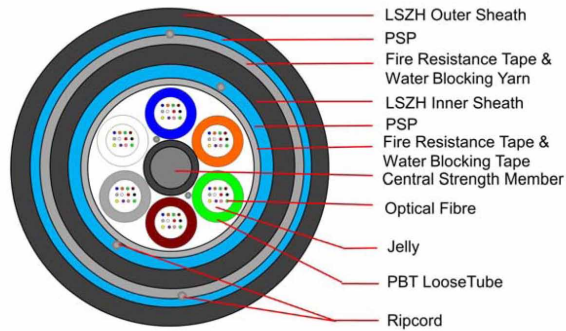
## Duct Cable – All Dry



- Unique coating and stranding technology to provide the fibers with enough space and bending endurance, which ensure good optical property of the fibers in the cable
- Accurate process control ensures good mechanical and temperature performance
- Gel-Free water blocking design simplifies access, saves time and avoids environmental pollution, small diameter and light weight extend installation length
- High quality raw material guarantee the long service life of cable

Part Number	Description
R2930120	Duct F/O Cable, Loose Tube, SM, G652D, 12 (1x12) Fibers, All Dry, Anti Rodent, UV Resistant, Central FRP, Steel Tape, PE
R2930240	Duct F/O Cable, Loose Tube, SM, G652D, 24 (2x12) Fibers, All Dry, Anti Rodent, UV Resistant, Central FRP, Steel Tape, PE
R2930360	Duct F/O Cable, Loose Tube, SM, G652D, 36 (3x12) Fibers, All Dry, Anti Rodent, UV Resistant, Central FRP, Steel Tape, PE
R2930480	Duct F/O Cable, Loose Tube, SM, G652D, 48 (4x12) Fibers, All Dry, Anti Rodent, UV Resistant, Central FRP, Steel Tape, PE
R2930720	Duct F/O Cable, Loose Tube, SM, G652D, 72 (6x12) Fibers, All Dry, Anti Rodent, UV Resistant, Central FRP, Steel Tape, PE
R2930960	Duct F/O Cable, Loose Tube, SM, G652D, 96 (8x12) Fibers, All Dry, Anti Rodent, UV Resistant, Central FRP, Steel Tape, PE
R2930130	Duct F/O Cable, Loose Tube, SM, G652D, 120 (10x12) Fibers, All Dry, Anti Rodent, UV Resistant, Central FRP, Steel Tape, PE
R2930150	Duct F/O Cable, Loose Tube, SM, G652D, 144 (12x12) Fibers, All Dry, Anti Rodent, UV Resistant, Central FRP, Steel Tape, PE
R2930230	Duct F/O Cable, Loose Tube, SM, G652D, 216 (18x12) Fibers, All Dry, Anti Rodent, UV Resistant, Central FRP, Steel Tape, PE
R2930290	Duct F/O Cable, Loose Tube, SM, G652D, 288 (24x12) Fibers, All Dry, Anti Rodent, UV Resistant, Central FRP, Steel Tape, PE

## Duct Cable

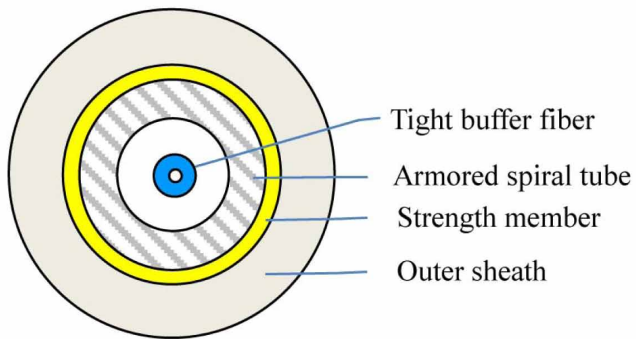


- Steel wire is applied as central strength member.
- Loose tubes and fillers are SZ stranded around the central strength member.
- Dry water blocking material is used in and over the cable core to prevent it from water ingress.
- Mica tape and steel tape is lapped over the cable core as a layer of fire resistance.
- LSZH sheath is applied as outer sheath.
- The unique second coating and stranding technology provide the fibers with enough space and bending endurance, which ensure good optical property of the fibers in the cable
- Accurate process control ensures good mechanical and temperature performance
- High quality raw material guarantee the long service life of cable
- Fire resistance, 90minutes at 750°C

Part Number	Description
R2930129	Duct F/O Cable, SM, 12 (2x6) Fibers, Fire Resistant, Double-Jacketed Steel Tape + LSZH
R2930249	Duct F/O Cable, SM, 24 (4x6) Fibers, Fire Resistant, Double-Jacketed Steel Tape + LSZH
R2930369	Duct F/O Cable, SM, 36 (6x6) Fibers, Fire Resistant, Double-Jacketed Steel Tape + LSZH
R2930489	Duct F/O Cable, SM, 48 (4x12) Fibers, Fire Resistant, Double-Jacketed Steel Tape + LSZH
R2930729	Duct F/O Cable, SM, 72 (6x12) Fibers, Fire Resistant, Double-Jacketed Steel Tape + LSZH
R2930159	Duct F/O Cable, SM, 144 (12x12) Fibers, Fire Resistant, Double-Jacketed Steel Tape + LSZH



## Simplex Spiral Tube Armored FO Cable



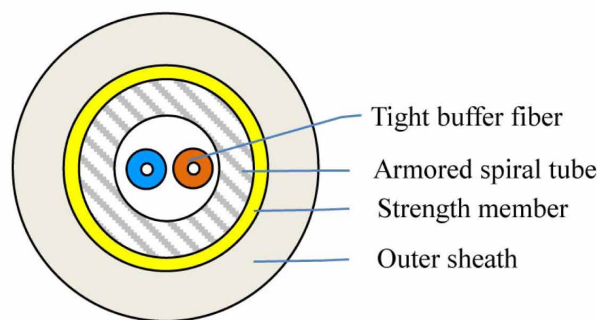
- Good mechanical and environmental characteristics
- Flame retardant characteristics meet the requirements of relevant standards
- The mechanical characteristics of jacket meet the requirements of relevant standards
- Soft, flexible, easy to lay and splice, and with big capacity data transmission
- LSZH and flame retardant sheath
- Tight tube and dry core structure make is simplify installation and maintenance

### Reference Standard

- ANSI/TIA-568-C
- ISO/IEC 11801
- BELLCORE GR 20
- IEC 794-1
- ITU-T G.657A2
- RoHS Compliant

Part Number	Description
R2901011	F/O Cable, SM, G657A2, Simplex, Tight Buffer, Spiral Tube Armored, Aramid Yarns, LSZH

# Duplex Spiral Tube Armored FO Cable



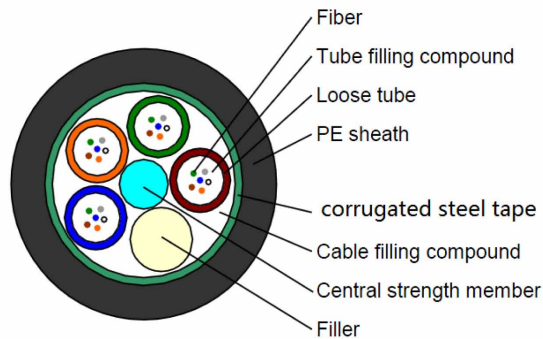
- Good mechanical and environmental characteristics
- Flame retardant characteristics meet the requirements of relevant standards
- The mechanical characteristics of jacket meet the requirements of relevant standards
- Soft, flexible, easy to lay and splice, and with big capacity data transmission
- LSZH and flame retardant sheath
- Tight tube and dry core structure make is simplify installation and maintenance

**Reference Standard**

- ANSI/TIA-568-C
- ISO/IEC 11801
- BELLCORE GR 20
- IEC 794-1
- ITU-T G.657A2
- RoHS Compliant

Part Number	Description
R2901021	F/O Cable, SM, G657A2, Duplex, Tight Buffer, Spiral Tube Armored, Aramid Yarns, LSZH

## Outdoor MLT Steel Armored Cable

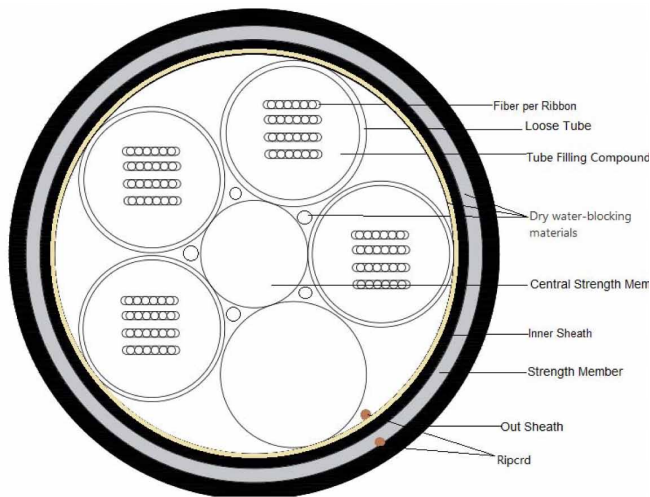


Part Number	Description
R2930062	Outdoor F/O Cable, Loose Tube, SM, 1x6 Fibers, Central Steel Wire+Corrugated Steel, PE
R2930082	Outdoor F/O Cable, Multi Loose Tube, SM, 2x4 Fibers, Central Steel Wire+Corrugated Steel, PE
R2930122	Outdoor F/O Cable, Multi Loose Tube, SM, 2x6 Fibers, Central Steel Wire+Corrugated Steel, PE
R2930242	Outdoor F/O Cable, Multi Loose Tube, SM, 4x6 Fibers, Central Steel Wire+Corrugated Steel, PE
R2930482	Outdoor F/O Cable, Multi Loose Tube, SM, 4x12 Fibers, Central Steel Wire+Corrugated Steel, PE
R2930962	Outdoor F/O Cable, Multi Loose Tube, SM, 8x12 Fibers, Central Steel Wire+Corrugated Steel, PE
R2930152	Outdoor F/O Cable, Multi Loose Tube, SM, 12x12 Fibers, Central Steel Wire+Corrugated Steel, PE
R2933062	Outdoor F/O Cable, Loose Tube, OM3, 1x6 Fibers, Central Steel Wire+Corrugated Steel, PE
R2933082	Outdoor F/O Cable, Multi Loose Tube, OM3, 2x4 Fibers, Central Steel Wire+Corrugated Steel, PE
R2933122	Outdoor F/O Cable, Multi Loose Tube, OM3, 2x6 Fibers, Central Steel Wire+Corrugated Steel, PE
R2933242	Outdoor F/O Cable, Multi Loose Tube, OM3, 4x6 Fibers, Central Steel Wire+Corrugated Steel, PE
R2933482	Outdoor F/O Cable, Multi Loose Tube, OM3, 4x12 Fibers, Central Steel Wire+Corrugated Steel, PE
R2933962	Outdoor F/O Cable, Multi Loose Tube, OM3, 8x12 Fibers, Central Steel Wire+Corrugated Steel, PE
R2933152	Outdoor F/O Cable, Multi Loose Tube, OM3, 12x12 Fibers, Central Steel Wire+Corrugated Steel, PE

## Outdoor MLT Steel Armored Cable

Part Number	Description
R2934062	Outdoor F/O Cable, Loose Tube, OM4, 1x6 Fibers, Central Steel Wire+Corrugated Steel, PE
R2934082	Outdoor F/O Cable, Multi Loose Tube, OM4, 2x4 Fibers, Central Steel Wire+Corrugated Steel, PE
R2934122	Outdoor F/O Cable, Multi Loose Tube, OM4, 2x6 Fibers, Central Steel Wire+Corrugated Steel, PE
R2934242	Outdoor F/O Cable, Multi Loose Tube, OM4, 4x6 Fibers, Central Steel Wire+Corrugated Steel, PE
R2934482	Outdoor F/O Cable, Multi Loose Tube, OM4, 4x12 Fibers, Central Steel Wire+Corrugated Steel, PE
R2934962	Outdoor F/O Cable, Multi Loose Tube, OM4, 8x12 Fibers, Central Steel Wire+Corrugated Steel, PE
R2934152	Outdoor F/O Cable, Multi Loose Tube, OM4, 12x12 Fibers, Central Steel Wire+Corrugated Steel, PE

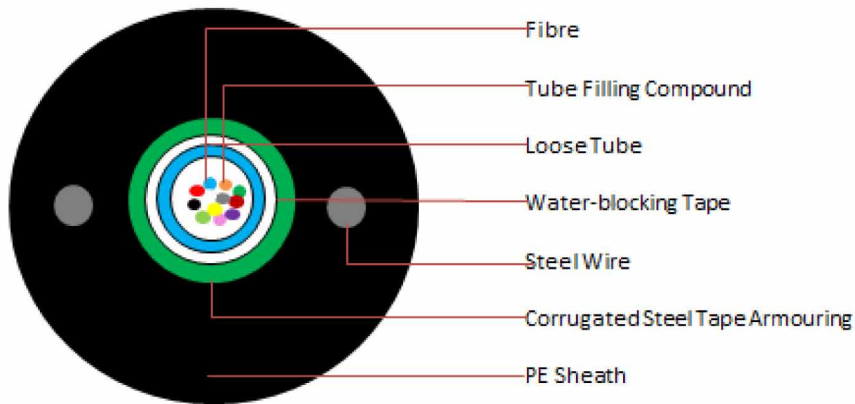
## Ribbon Cable 96F & 48F, GYDJWR



- 48- 96 fiber counts
- Easy identification of ribbons and fibers
- Improved compressive strength
- Easy and quick access to fibers
- Easy separation into single fibers by hand
- Ribbon cable much more fast prepared and spliced
- Application: Suitable for Backbone and Feeder application
- Offers a reliable transmission performance over a broad temperature range

Part Number	Description
R2970481	F/O Ribbon Cable, Loose Tube, SM, G652D, 48 (4x2x6) Fibers, Central FRP, Dry Water Repellent Tape & Yarn, Water-Resisting Glass Yarn, Anti-rodent, UV Stabilized, Double-Jacketed HDPE
R2970961	F/O Ribbon Cable, Loose Tube, SM, G652D, 96 (4x4x6) Fibers, Central FRP, Dry Water Repellent Tape & Yarn, Water-Resisting Glass Yarn, Anti-rodent, UV Stabilized, Double-Jacketed HDPE

## Single Tube Armored Cable

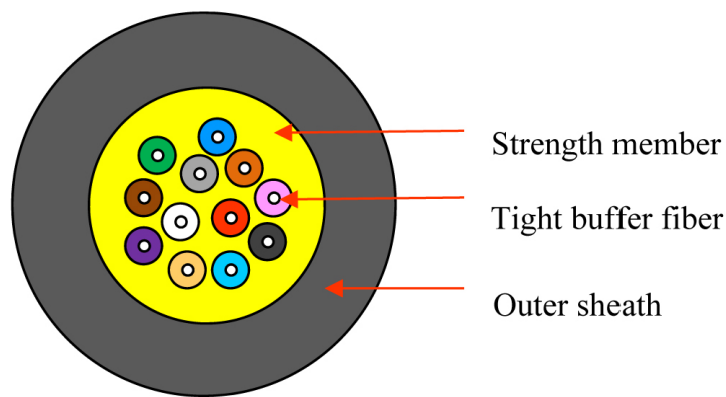


Part Number	Description
R2950022	Outdoor F/O Cable, Single Loose Tube, SM, G652D, 2 Fibers, Corrugated Steel, 2 Parallel Steel Wires, PE
R2950042	F/O Ribbon Cable, Loose Tube, SM, G652D, 96 (4x4x6) Fibers, Central FRP, Dry Water Repellent Tape & Yarn, Water-Resisting Glass Yarn, Anti-rodent, UV Stabilized, Double-Jacketed HDPE
R2950062	Outdoor F/O Cable, Single Loose Tube, SM, G652D, 6 Fibers, Corrugated Steel, 2 Parallel Steel Wires, PE
R2950082	Outdoor F/O Cable, Single Loose Tube, SM, G652D, 8 Fibers, Corrugated Steel, 2 Parallel Steel Wires, PE
R2950122	Outdoor F/O Cable, Single Loose Tube, SM, G652D, 12 Fibers, Corrugated Steel, 2 Parallel Steel Wires, PE
R2951042	Outdoor F/O Cable, Single Loose Tube, SM, G657A2, 4 Fibers, Corrugated Steel, 2 Parallel Steel Wires, PE
R2951062	Outdoor F/O Cable, Single Loose Tube, SM, G657A2, 6 Fibers, Corrugated Steel, 2 Parallel Steel Wires, PE
R2951082	Outdoor F/O Cable, Single Loose Tube, SM, G657A2, 8 Fibers, Corrugated Steel, 2 Parallel Steel Wires, PE
R2951122	Outdoor F/O Cable, Single Loose Tube, SM, G657A2, 12 Fibers, Corrugated Steel, 2 Parallel Steel Wires, PE
R2952022	Outdoor F/O Cable, Single Loose Tube, MM 62.5, OM1, 2 Fibers, Corrugated Steel, 2 Parallel Steel Wires, PE

## Single Tube Armored Cable

Part Number	Description
R2952042	Outdoor F/O Cable, Single Loose Tube, MM 62.5, OM1, 4 Fibers, Corrugated Steel, 2 Parallel Steel Wires, PE
R2952062	Outdoor F/O Cable, Single Loose Tube, MM 62.5, OM1, 6 Fibers, Corrugated Steel, 2 Parallel Steel Wires, PE
R2952082	Outdoor F/O Cable, Single Loose Tube, MM 62.5, OM1, 8 Fibers, Corrugated Steel, 2 Parallel Steel Wires, PE
R2952122	Outdoor F/O Cable, Single Loose Tube, MM 62.5, OM1, 12 Fibers, Corrugated Steel, 2 Parallel Steel Wires, PE
R2953022	Outdoor F/O Cable, Single Loose Tube, MM 50, OM3, 2 Fibers, Corrugated Steel, 2 Parallel Steel Wires, PE
R2953042	Outdoor F/O Cable, Single Loose Tube, MM 50, OM3, 4 Fibers, Corrugated Steel, 2 Parallel Steel Wires, PE
R2953062	Outdoor F/O Cable, Single Loose Tube, MM 50, OM3, 6 Fibers, Corrugated Steel, 2 Parallel Steel Wires, PE
R2953082	Outdoor F/O Cable, Single Loose Tube, MM 50, OM3, 8 Fibers, Corrugated Steel, 2 Parallel Steel Wires, PE
R2953122	Outdoor F/O Cable, Single Loose Tube, MM 50, OM3, 12 Fibers, Corrugated Steel, 2 Parallel Steel Wires, PE
R2954022	Outdoor F/O Cable, Single Loose Tube, MM 50, OM4, 2 Fibers, Corrugated Steel, 2 Parallel Steel Wires, PE
R2954042	Outdoor F/O Cable, Single Loose Tube, MM 50, OM4, 4 Fibers, Corrugated Steel, 2 Parallel Steel Wires, PE
R2954062	Outdoor F/O Cable, Single Loose Tube, MM 50, OM4, 6 Fibers, Corrugated Steel, 2 Parallel Steel Wires, PE
R2954082	Outdoor F/O Cable, Single Loose Tube, MM 50, OM4, 8 Fibers, Corrugated Steel, 2 Parallel Steel Wires, PE
R2954122	Outdoor F/O Cable, Single Loose Tube, MM 50, OM4, 12 Fibers, Corrugated Steel, 2 Parallel Steel Wires, PE

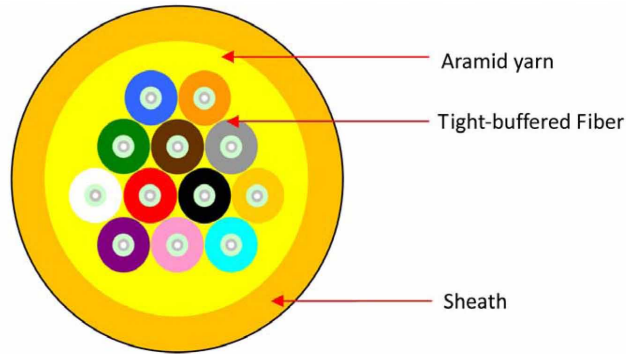
# Tactical Fiber Optic Cable



Part Number	Description
R2941026	Tactical F/O Cable, Tight Buffer, SM, G657A2, 2 Fibers, LSZH, Aramid Yarns, TPU
R2941046	Tactical F/O Cable, Tight Buffer, SM, G657A2, 4 Fibers, LSZH, Aramid Yarns, TPU
R2941066	Tactical F/O Cable, Tight Buffer, SM, G657A2, 6 Fibers, LSZH, Aramid Yarns, TPU
R2941086	Tactical F/O Cable, Tight Buffer, SM, G657A2, 8 Fibers, LSZH, Aramid Yarns, TPU
R2941126	Tactical F/O Cable, Tight Buffer, SM, G657A2, 12 Fibers, LSZH, Aramid Yarns, TPU



## Xlight Indoor Tight Buffer Multi-Fiber Cables



**Part Number**  
**R290FXX0**

**F - Fiber Type**

- 0 - SM, G.652D
- 1 - SM, G.657A2
- 3 - MM, OM3
- 4 - MM, OM4
- 9 - SM, G.657B3

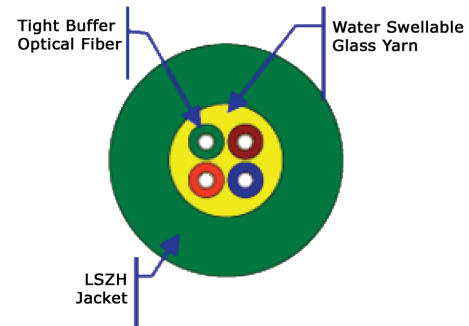
**XX- Number of Fibers**

- 02
- 04
- 06
- 08
- 12
- 24
- 48

## F/O Tight Buffer Cables

### Features

- 2 to 12 Tight buffered fibers
- Each fiber is enclosed in a 0.9mm tight buffer made of a thermoplastic polymer
- The tight buffers are color coded for easy identification
- Water swelling glass yarns are employed with the fibers to serve as peripheral strength members and to block the cable core from water penetration
- UV resistant, Low Smoke, Zero Halogen (LSZH) compound outer jacket is extruded over the cable core.



Part Number	Description
R2620020	Indoor F/O Cable, Tight Buffer, MM 62.5, 2 Fibers, Dry Water Blk, Glass, LSZH
R2620040	Indoor F/O Cable, Tight Buffer, MM 62.5, 4 Fibers, Dry Water Blk, Glass, LSZH
R2620080	Indoor F/O Cable, Tight Buffer, MM 62.5, 8 Fibers, Dry Water Blk, Glass, LSZH
R2620120	Indoor F/O Cable, Tight Buffer, MM 62.5, 12 Fibers, Dry Water Blk, Glass, LSZH
R2622020	Indoor F/O Cable, Tight Buffer, MM 50, 2 Fibers, Dry Water Blk, Glass, LSZH
R2622040	Indoor F/O Cable, Tight Buffer, MM 50, 4 Fibers, Dry Water Blk, Glass, LSZH
R2622080	Indoor F/O Cable, Tight Buffer, MM 50, 8 Fibers, Dry Water Blk, Glass, LSZH
R2622120	Indoor F/O Cable, Tight Buffer, MM 50, 12 Fibers, Dry Water Blk, Glass, LSZH
R2623020	Indoor F/O Cable, Tight Buffer, MM 50, OM3, 2 Fibers, Dry Water Blk, Glass, LSZH
R2623040	Indoor F/O Cable, Tight Buffer, MM 50, OM3, 4 Fibers, Dry Water Blk, Glass, LSZH
R2623080	Indoor F/O Cable, Tight Buffer, MM 50, OM3, 8 Fibers, Dry Water Blk, Glass, LSZH
R2623120	Indoor F/O Cable, Tight Buffer, MM 50, OM3, 12 Fibers, Dry Water Blk, Glass, LSZH
R2624020	Indoor F/O Cable, Tight Buffer, MM 50, OM4, 2 Fibers, Dry Water Blk, Glass, LSZH
R2624040	Indoor F/O Cable, Tight Buffer, MM 50, OM4, 4 Fibers, Dry Water Blk, Glass, LSZH
R2624080	Indoor F/O Cable, Tight Buffer, MM 50, OM4, 8 Fibers, Dry Water Blk, Glass, LSZH
R2624120	Indoor F/O Cable, Tight Buffer, MM 50, OM4, 12 Fibers, Dry Water Blk, Glass, LSZH

For other cable configuration please contact your sales representative.

# F/O Pigtails and Patch Cords

## Features

- Preassembled and individually tested Pigtails and Patch Cords
- Simplex or Duplex patch cord construction
- High quality LC, SC and ST connectors
- Available with several fiber types – Single-Mode, Multi-Mode 50/125: OM3 & OM4 regular and bend insensitive
- Bend insensitive as per G657 A2



Part Number	Description
<b>LC Pigtails</b>	
R4210015	F/O Pigtails, LC, OM3, PC, 1.5m Set 12 - <b>Bend Insensitive</b>
R4231015	F/O Pigtails, LC, OM3, PC, 1.5m Set 12
R4230015	F/O Pigtails, LC, SM, PC, 1.5m Set 12 - <b>G657-A2</b>
R4204010	F/O Pigtail, LC, SM, PC, 1m
R4204020	F/O Pigtail, LC, SM, PC, 2m
R4204030	F/O Pigtail, LC, SM, PC, 3m
R4204050	F/O Pigtail, LC, SM, PC, 5m
R4205010	F/O Pigtail, LC, MM50, OM3, 1m
R4205020	F/O Pigtail, LC, MM50, OM3, 2m
R4205030	F/O Pigtail, LC, MM50, OM3, 3m
R4205050	F/O Pigtail, LC, MM50, OM3, 5m
R4208010	F/O Pigtail, LC, MM50, OM3, 1m
R4208020	F/O Pigtail, LC, MM50, OM3, 2m
R4208030	F/O Pigtail, LC, MM50, OM3, 3m
R4208050	F/O Pigtail, LC, MM50, OM3, 5m

## F/O Pigtails and Patch Cords

Part Number	Description
<b>LC Duplex Patch Cords</b>	
R4191010	F/O Patch Cord, LC, Duplex, SM, PC, 1m - <b>G657-A2</b>
R4191020	F/O Patch Cord, LC, Duplex, SM, PC, 2m - <b>G657-A2</b>
R4191030	F/O Patch Cord, LC, Duplex, SM, PC, 3m - <b>G657-A2</b>
R4191050	F/O Patch Cord, LC, Duplex, SM, PC, 5m - <b>G657-A2</b>
R4192010	F/O Patch Cord, LC, Duplex, MM50, OM3, 1m
R4192020	F/O Patch Cord, LC, Duplex, MM50, OM3, 2m
R4192030	F/O Patch Cord, LC, Duplex, MM50, OM3, 3m
R4192050	F/O Patch Cord, LC, Duplex, MM50, OM3, 5m
R4612100	F/O Patch Cord, LC, Duplex, MM50, OM3, 10m
R4612150	F/O Patch Cord, LC, Duplex, MM50, OM3, 15m
R4612200	F/O Patch Cord, LC, Duplex, MM50, OM3, 20m
R4612250	F/O Patch Cord, LC, Duplex, MM50, OM3, 25m
R4612300	F/O Patch Cord, LC, Duplex, MM50, OM3, 30m
R4612500	F/O Patch Cord, LC, Duplex, MM50, OM3, 50m
R4900336	F/O Patch Cord, LC, Duplex, MM50, OM3, 100m
R4195010	F/O Patch Cord, LC, Duplex, MM50, OM4, 1m
R4195020	F/O Patch Cord, LC, Duplex, MM50, OM4, 2m
R4195030	F/O Patch Cord, LC, Duplex, MM50, OM4, 3m
R4195050	F/O Patch Cord, LC, Duplex, MM50, OM4, 5m
R4195060	F/O Patch Cord, LC, Duplex, MM50, OM4, 6m
R4195075	F/O Patch Cord, LC, Duplex, MM50, OM4, 7.5m
R4195090	F/O Patch Cord, LC, Duplex, MM50, OM4, 9m
R4613010	F/O Patch Cord, LC, Duplex, MM50, OM4, 10m
<b>MPO Patch Cords</b>	
R3310010	F/O P.C. MPO-MPO, MM50, OM3, LSZH 1m
R3310020	F/O P.C. MPO-MPO, MM50, OM3, LSZH 2m
R3310030	F/O P.C. MPO-MPO, MM50, OM3, LSZH 3m
R3310050	F/O P.C. MPO-MPO, MM50, OM3, LSZH 5m

## F/O Pigtails and Patch Cords

Part Number	Description
<b>SC Simplex Patch Cords</b>	
R3233101	F/O Patch Cord, SC, Simplex, SM, PC, 1m
R3213120	F/O Patch Cord, SC, Simplex, SM, PC, 2m
R3213130	F/O Patch Cord, SC, Simplex, SM, PC, 3m
R3213150	F/O Patch Cord, SC, Simplex, SM, PC, 5m
R3233110	F/O Patch Cord, SC, Simplex, MM50, OM3, 1m
R3233120	F/O Patch Cord, SC, Simplex, MM50, OM3, 2m
R3233130	F/O Patch Cord, SC, Simplex, MM50, OM3, 3m
R3233150	F/O Patch Cord, SC, Simplex, MM50, OM3, 5m
<b>SC Duplex Patch Cords</b>	
R3234101	F/O Patch Cord, SC, Duplex, SM, PC, 1m
R3234102	F/O Patch Cord, SC, Duplex, SM, PC, 2m
R3234103	F/O Patch Cord, SC, Duplex, SM, PC, 3m
R3234105	F/O Patch Cord, SC, Duplex, SM, PC, 5m
R3324110	F/O Patch Cord, SC, Duplex, MM50, OM3, 1m
R3324110	F/O Patch Cord, SC, Duplex, MM50, OM3, 2m
R3324110	F/O Patch Cord, SC, Duplex, MM50, OM3, 3m
R3324110	F/O Patch Cord, SC, Duplex, MM50, OM3, 5m
R4502100	FC Cable SC to SC, 10m
R4502150	FC Cable SC to SC, 15m
R4502200	FC Cable SC to SC, 20m
R4502250	FC Cable SC to SC, 25m
R4502300	FC Cable SC to SC, 30m
R4502500	FC Cable SC to SC, 50m
R4900337	FC Cable SC to SC, 100m

## F/O Pigtails and Patch Cords

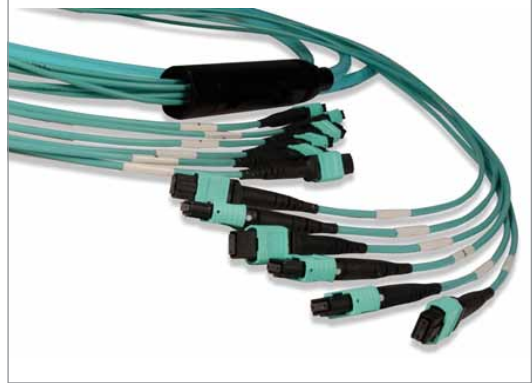
Part Number	Description
<b>SC Pigtails</b>	
R3236101	F/O Pigtail, SC, SM, PC, 1m
R3236102	F/O Pigtail, SC, SM, PC, 2m
R3236103	F/O Pigtail, SC, SM, PC, 3m
R3236105	F/O Pigtail, SC, SM, PC, 5m
R3236110	F/O Pigtail, SC, MM50, OM3, 1m
R3236120	F/O Pigtail, SC, MM50, OM3, 2m
R3236130	F/O Pigtail, SC, MM50, OM3, 3m
R3236150	F/O Pigtail, SC, MM50, OM3, 5m
<b>SC-LC Duplex Patch Cords</b>	
R4510010	F/O Patch Cord, SC-LC, Duplex, SM, PC, 1m
R4510020	F/O Patch Cord, SC-LC, Duplex, SM, PC, 2m
R4510030	F/O Patch Cord, SC-LC, Duplex, SM, PC, 3m
R4510050	F/O Patch Cord, SC-LC, Duplex, SM, PC, 5m
R3324510	F/O Patch Cord, SC-LC, Duplex, MM50, OM3, 1m
R3324520	F/O Patch Cord, SC-LC, Duplex, MM50, OM3, 2m
R3324530	F/O Patch Cord, SC-LC, Duplex, MM50, OM3, 3m
R3324550	F/O Patch Cord, SC-LC, Duplex, MM50, OM3, 5m
R4508100	FC Cable SC to LC, 10m
R4508150	FC Cable SC to LC, 15m
R4508200	FC Cable SC to LC, 20m
R4508250	FC Cable SC to LC, 25m
R4508300	FC Cable SC to LC, 30m
R4508500	FC Cable SC to LC, 50m
R4900335	FC Cable SC to LC, 100m

For other lengths please contact your sales representative.

## SMART Xlight MPO Trunks Cables

### Features

- Connectors are compliant with TIA FOCIS-5D standard
- Fully compatible with 40G and 100G\* IEEE 802.3 applications
- Available with two fiber in several options depending the IL grade mechanics and fiber types
- Polarity A
- Available in several lengths and configurations: 1-1, 2-2, 4-4, 8-8 and 12-12 connections per each side (each connector contains 12 cores)
- 100% Factory tested



\* For 100G applications two cords should be in use

The SMART Xlight MPO Trunk cables are available in different types:

Fiber Types:

- Multi Mode 50/125  $\mu\text{m}$  (OM3 and OM4) BI
- Single Mode 9.3/125 $\mu\text{m}$  (G657A2)

IL Grade:

- Super IL

Compatibility Options:

- Pinned (Male)
- Unpinned (Female)

## SMART Xlight MPO Trunks Cables

Part #	Description
<b>Type A, Female-Female Type</b>	
R3313010	Xlight Cord, MPO-MPO,12, MM, OM3, Super IL,1.0m
R4413010	Xlight Cord, MPO-MPO,12, MM, OM3, Super IL,10.0m
R3314010	Xlight Cord, MPO-MPO,12, MM, OM4, Super IL,1.0m
R4414010	Xlight Cord, MPO-MPO,12, MM, OM4, Super IL,10.0m
R3315010	Xlight Cord, MPO-MPO,12, SM, Super IL, G657A2, 1.0m
R4415010	Xlight Cord, MPO-MPO,12, SM, Super IL, G657A2, 10.0m
R3316010	Xlight Cord, MPO-MPO,12, MM, OM3, Super IL, Bend-Insensitive,1.0m
R4416010	Xlight Cord, MPO-MPO,12, MM, OM3, Super IL, Bend-Insensitive,10.0m
R3317010	Xlight Cord, MPO-MPO,12, MM, OM4, Super IL, Bend-Insensitive,1.0m
R4417010	Xlight Cord, MPO-MPO,12, MM, OM4, Super IL, Bend-Insensitive,10.0m
R3393010	Xlight Cord, MPO-MPO,2x12, MM, OM3, Super IL,1.0m
R4423010	Xlight Cord, MPO-MPO,2x12, MM, OM3, Super IL,10.0m
R3394010	Xlight Cord, MPO-MPO,2x12, MM, OM4, Super IL,1.0m
R4424010	Xlight Cord, MPO-MPO,2x12, MM, OM4, Super IL,10.0m
R3395010	Xlight Cord, MPO-MPO,2x12, SM, Super IL, G657A2, 1.0m
R4425010	Xlight Cord, MPO-MPO,2x12, SM, Super IL, G657A2, 10.0m
R3396010	Xlight Cord, MPO-MPO,2x12, MM, OM3, Super IL, Bend-Insensitive,1.0m
R4426010	Xlight Cord, MPO-MPO,2x12, MM, OM3, Super IL, Bend-Insensitive,10.0m
R3397010	Xlight Cord, MPO-MPO,2x12, MM, OM4, Super IL, Bend-Insensitive,1.0m
R4427010	Xlight Cord, MPO-MPO,2x12, MM, OM4, Super IL, Bend-Insensitive,10.0m
R3403010	Xlight Cord, MPO-MPO,4x12, MM, OM3, Super IL,1.0m
R4433010	Xlight Cord, MPO-MPO,4x12, MM, OM3, Super IL,10.0m
R3404010	Xlight Cord, MPO-MPO,4x12, MM, OM4, Super IL,1.0m
R4434010	Xlight Cord, MPO-MPO,4x12, MM, OM4, Super IL,10.0m
R3405010	Xlight Cord, MPO-MPO,4x12, SM, Super IL, G657A2, 1.0m
R4435010	Xlight Cord, MPO-MPO,4x12, SM, Super IL, G657A2, 10.0m
R3406010	Xlight Cord, MPO-MPO,4x12, MM, OM3, Super IL, Bend-Insensitive,1.0m
R4436010	Xlight Cord, MPO-MPO,4x12, MM, OM3, Super IL, Bend-Insensitive,10.0m
R3407010	Xlight Cord, MPO-MPO,4x12, MM, OM4, Super IL, Bend-Insensitive,1.0m
R4437010	Xlight Cord, MPO-MPO,4x12, MM, OM4, Super IL, Bend-Insensitive,10.0m



## SMART Xlight MPO Trunks Cables

Part #	Description
R3423010	Xlight Cord, MPO-MPO,8x12, MM, OM3, Super IL,1.0m
R4463010	Xlight Cord, MPO-MPO,8x12, MM, OM3, Super IL,10.0m
R3424010	Xlight Cord, MPO-MPO,8x12, MM, OM4, Super IL,1.0m
R4464010	Xlight Cord, MPO-MPO,8x12, MM, OM4, Super IL,10.0m
R3425010	Xlight Cord, MPO-MPO,8x12, SM, Super IL, G657A2, 1.0m
R4465010	Xlight Cord, MPO-MPO,8x12, SM, Super IL, G657A2, 10.0m
R3426010	Xlight Cord, MPO-MPO,8x12, MM, OM3, Super IL, Bend-Insensitive,1.0m
R4466010	Xlight Cord, MPO-MPO,8x12, MM, OM3, Super IL, Bend-Insensitive,10.0m
R3427010	Xlight Cord, MPO-MPO,8x12, MM, OM4, Super IL, Bend-Insensitive,1.0m
R4467010	Xlight Cord, MPO-MPO,8x12, MM, OM4, Super IL, Bend-Insensitive,10.0m
R3493010	Xlight Cord, MPO-MPO,12x12, MM, OM3, Super IL,1.0m
R4483010	Xlight Cord, MPO-MPO,12x12, MM, OM3, Super IL,10.0m
R3494010	Xlight Cord, MPO-MPO,12x12, MM, OM4, Super IL,1.0m
R4484010	Xlight Cord, MPO-MPO,12x12, MM, OM4, Super IL,10.0m
R3495010	Xlight Cord, MPO-MPO,12x12, SM, Super IL, G657A2, 1.0m
R4485010	Xlight Cord, MPO-MPO,12x12, SM, Super IL, G657A2, 10.0m
R3496010	Xlight Cord, MPO-MPO,12x12, MM, OM3, Super IL, Bend-Insensitive,1.0m
R4486010	Xlight Cord, MPO-MPO,12x12, MM, OM3, Super IL, Bend-Insensitive,10.0m
R3497010	Xlight Cord, MPO-MPO,12x12, MM, OM4, Super IL, Bend-Insensitive,1.0m
R4487010	Xlight Cord, MPO-MPO,12x12, MM, OM4, Super IL, Bend-Insensitive,10.0m

Designing fiber optic network using MPO Trunk Cables need to be carefully designed due to optical polarity and compatibility matching.

Based on the above, other lengths and/or types please contact your sales representative for technical support.

## SMART Xlight LC-MPO Fan-Out

### Features

- MPO Connectors are compliant with TIA FOCIS-5D standard
- 12 fibers MPO connector fan-out to 12 LC connectors
- Available in MM (OM-3, OM-4 and BI) and SM options
- Cable jacket - LSZH
- Super IL grade; IL<0.5dB
- 100% Factory tested



The SMART Xlight LC-MPO fan-outs are available in different types:

#### Fiber Types:

- Multi-Mode 50/125  $\mu\text{m}$  - OM3 and OM4
- Multi-Mode 50/125  $\mu\text{m}$  - OM3 and OM4 – Bend Insensitive (BI)
- Single-Mode 9.3/125 $\mu\text{m}$  - G657A2

#### IL Grade:

- Super IL

#### Compatibility Options:

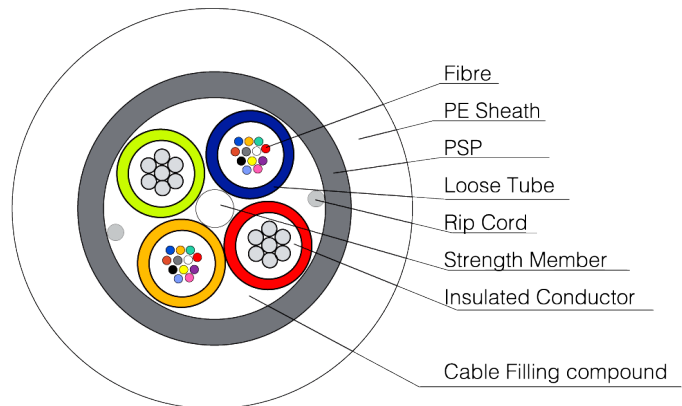
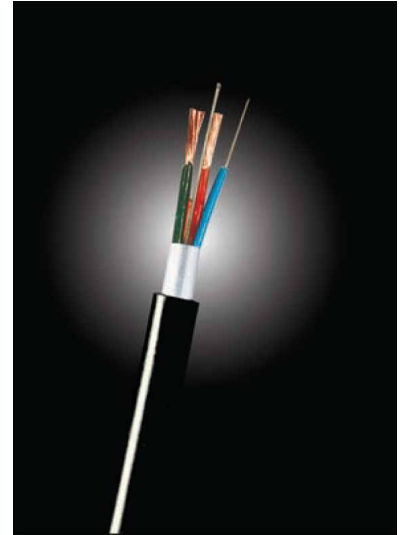
- Unpinned (Female)

Part #	Description
R3363010	Xlight LC-MPO fanout, OM3, Super IL,LSZH, 1.0m
R3364010	Xlight LC-MPO fanout, OM4, Super IL,LSZH, 1.0m
R3365010	Xlight LC-MPO fanout, SM, Super IL, LSZH, G657A2, 1.0m
R3366010	Xlight LC-MPO fanout, OM3, Super IL, LSZH, Bend-Insensitive, 1.0m
R3367010	Xlight LC-MPO fanout, OM4, Super IL, LSZH, Bend-Insensitive, 1.0m

# Optical Power Composite Cable

## Features

- The composite cable provides the equipment electricity and signal transmission and improves central monitoring and maintenance for equipment power.
- To reduce the coordination and maintenance of power supply
- Excellent ultraviolet prevention with PE sheath
- The following measures are taken to ensure the water blocking performance of the cable
  - Single steel wire used as the central strength member
  - Special water-blocking filling compound in the loose tube
  - 100% cable core filing
  - APL moisture barrier



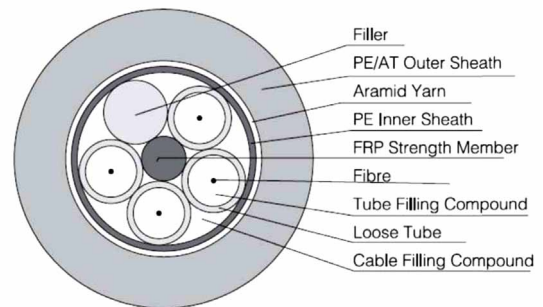
## All Dielectric Self-Supporting Aerial Cable

### Features

In RiT ADSS cable, Singlemode and multimode fibers are positioned in the loose tubes, which are made of high modulus plastic materials, while the loose tubes strand together around non-metallic central strength member (FRP) into a compact and circular cable core. The loose tubes are filled with filling compound, while water-blocking materials are distributed into interstices of the cable core. The PE inner sheath is extruded over the cable core with aramid yarns outside. Then, the cable is completed with a PE/AT outer sheath.

### Characteristics

- Easy installation
- Excellent corrosion resistance, due to AT sheath
- Light weight and small diameter
- Large span with the largest span of over 1000m
- Accurate excess fiber length and stranding pitch to guarantee the good tensile and temperature performance
- The life expectancy is over 30 years



# Connectors & Adapters for Fiber Optic Cabling



RiT Technologies offers communication outlets for fiber-to-the-desk applications. RiT carries a complete line of fiber optic adapters. LC, SC and ST adapters are available in Single-Mode and Multi-Mode configurations.

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## LC F/O Adapters

### Features

- LC Duplex adapter: Small form Factor adapter – with a footprint of SC simplex adapter
- LC Quad adapter - with footprint of SC duplex adapter
- Conform to ANSI/TIA/EIA-568-C.3 standard specifications
- High connection density
- High performance Single-Mode and Multi-Mode adapters
- Push-pull coupling for easy insertion and high repeatability
- High system durability, stability and repeatability
- Snap-in locking element ensures high tensile strength}
- Multi-Mode applications (sleeve type: Phosphor Bronze, color: Aqua)
- Insertion Loss < 0.25 dB typical
- Single-Mode applications (sleeve type Zirconia, color: Blue)
- Insertion Loss < 0.15 dB typical
- Return Loss > 28 dB typical



Part #	Description
R4203020	Xlight LC Duplex Adapter, MM, Ceramic
R4203021	Xlight LC Duplex Adapter, SM, Ceramic
R4203022	Xlight LC Quad Adapter, MM, Ceramic
R4203023	Xlight LC Quad Adapter, SM, Ceramic

## SC F/O Adapters

### Features

- High performance single mode and multi mode connectors and adapters
- Push-pull coupling for easy insertion and high repeatability
- Field installable
- Minimum termination time
- Conform to ANSI/TIA/EIA-568-C.3 standard specifications
- High termination yield
- High system durability, stability and repeatability
- Pre-radius, pre-polished zirconia ceramic connector ferrules
- Simplex or duplex connector models
- Special SC duplex housing may be assembled at any time, even after simplex SC connectors have been terminated
- Precision adapters with rugged phosphor-bronze alignment sleeves
- PC and precision APC ferrules for single mode applications
- PC ferrules:
  - Insertion Loss < 0.3 dB typical
  - Return Loss > 26 dB typical
- APC ferrules:
  - Insertion loss < 0.3 dB typical
  - Return loss > 65 dB typical



Part #	Description
R4203012	Xlight F/O Adapter, SC-SC, Duplex, MM
R4203013	Xlight F/O Adapter, SC-SC, Duplex, SM, PC
R4203006	Xlight F/O Adapter, SC-SC, Duplex, SM, APC
R4203010	Xlight F/O Adapter, SC-SC, Simplex, SM, PC

## ST F/O Adapters

### Features

- High repeatability and low attenuation
- Field installable
- Standard crimp kevlar retention
- High performance Single-Mode and Multi-Mode connectors
- Low insertion loss:

Multi-Mode: < 0.34 dB typical

Single-Mode: < 0.15 dB typical

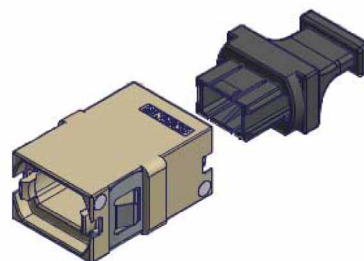


Part #	Description
R3203003	Xlight F/O Connector, ST-ST, Simplex, MM
R3203008	Xlight F/O Connector, ST-ST, Simplex, SM, PC

## Xlight MPO/MTP Fiber Optic Adapters

### Features

- Small Form Factor – with a footprint of SC simplex adapter, flange less
- Conform to ANSI/TIA-568-C.3 standard specifications
- Meets TIA/EIA 604-5 Type MPO
- High performance Single-Mode and Multi-Mode adapters
- High system durability, stability and repeatability
- Multi-Mode applications color: Aqua
- Single-Mode applications color: Black



Part #	Description
R4209100	MPO/MTP, Aqua, MM adapter
R4209200	MPO/MTP, Black, SM adapter



The background features a large white circle on the left side. To its right is a light green curved shape. At the bottom, there are several overlapping green shapes, including a dark green triangle pointing upwards and a lighter green shape below it.

# GPON

# GPON



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## Optical Fiber Distribution Frames (ODF)

### Features

- Enclosed type frame, the left and right side plates can be disassembled, conveniently for frame combine
- Non fiber management unit design, Plug and Play design of splicing and terminating tray
- Universal adapter plug-in fits a variety of adapters such as SC, FC, LC, etc
- Optical splitter tray can be installed. The installation dimensions of the splitter tray and the splicing and terminating tray are compatible
- All operation in front, the cable can be introduced above or below and be free to allocate
- Reliable cable introducing, fixing and protection device, suitable for ribbon and non ribbon optical fiber cable
- Reasonable fiber routing, ensure fiber bend radius larger than 37.5mm at any position



# Optical Fiber Distribution Frames (ODF)

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- Large capacity storage space for pigtails and patch cords
- Reasonable fiber routing, ensure fiber bend radius larger than 37.5mm at any position



# Optical Fiber Distribution Frames (ODF)

## Features

- Standard 19" installation frame. Half open structure. All operation in front
- Fiber management unit structure, modular design, flexible configuration, convenient installation.
- Universal adapter plug-in fits a variety of adapters such as SC, FC, LC, etc
- The cable can be introduced from above or below and be free to allocate
- Reliable cable introducing, fixing and protection device, suitable for ribbon and non ribbon optical fiber cable
- Large capacity storage space for pigtails and patch cords
- Reasonable fiber routing, ensure fiber bend radius larger than 37.5mm at any position



# Fiber Management Unit

## Features

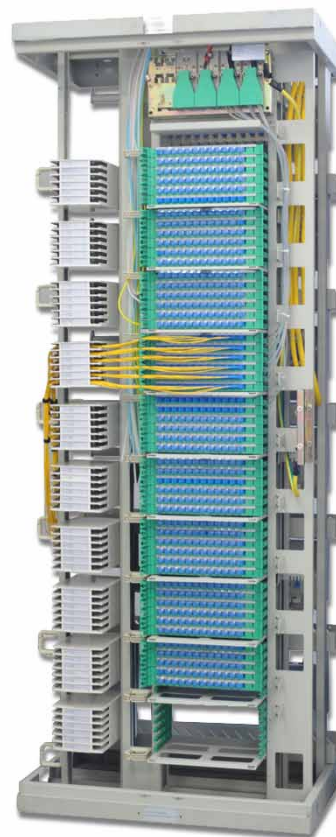
- Standard 19" structure, convenient installation
- Plug and Play splicing and terminating tray, Universal adapter plug-in fits a variety of adapters such as SC, FC, LC, etc
- The cable can be introduced from left or right and be free to allocate
- Cable introducing, fixing and protection device can be chosen, suitable for ribbon and bunch optical fiber cable
- Mounting lug position can be adjusted, adapting to different mounting scene



## Main Optical Distribution Frames (MODF)

### Features

- Open frame, line side in the front and equipment side in the back, partition management
- 72 cores fiber management unit at the line side, module design, convenient operation
- 96 cores rotatable adapter panel at the equipment side, convenient operation and maintenance
- The cable can be introduced from above or below and be free to allocate
- Reliable cable introducing, and protection device, suitable for ribbon and bunch cable
- Horizontal, vertical and front-back fiber channel, convenient to combine frames
- No cross patch cord routing, multi jumping channel, to realize the patch cord shunting, and to ensure that the bending radius is greater than 37.5mm
- Overlong patch cord stored by special storage disk, clean and tidy, easy to find, realizing the detailed management



# Indoor Armored Patch cord

## Features

Indoor armored patch cord is used for the high crush resistance requirement application, it is composed of 2.0mm or 3.0mm indoor armored cable and optical connectors, SC/ FC/ LC/ ST connectors can be provided.

- Standard 19" structure, convenient installation
- Plug and Play splicing and terminating tray, Universal adapter plug-in fits a variety of adapters such as SC, FC, LC, etc
- The cable can be introduced from left or right and be free to allocate
- Cable introducing, fixing and protection device can be chosen, suitable for ribbon and bunch optical fiber cable
- Mounting lug position can be adjusted, adapting to different mounting scene
- Meet standards: GR-326-CORE, EC 61754 series, YD/T 1272 series, etc.



## Performance

Optical fiber connector	SC/FC/LC/ST/MU/MT-RJ/E2000, etc.		
Fiber	Single mode(1310&1550nm)		Multimode(850&1300nm)
Cable diameter(mm)	Φ2.0mm, Φ3.0mm		Φ2.0mm, Φ3.0mm
Insertion loss(dB)	Typical 0.2, Max.0.3		Typical 0.2, Max.0.3
Return loss(dB)	PC≥45, UPC≥50, APC≥60,		NA
Operation temperature (°C)	-40 ~ +75		-40 ~ +75
Fiber geometry	Radius	10-25 mm (PC/UPC) 5-12 mm (APC)	NA
	Apex offset	0-50um0 0-50 um	
	Fiber height	-50-+50 nm	
Environment-friendly	Comply with RoHS		Comply with RoHS



# Fiber Optical Adapter

## Features

Optical adaptor is used to connect two optical connectors, and the ferrule precise positioning by ceramic sleeve to achieve low insertion loss.Overlong patch cord stored by special storage disk, clean and tidy, easy to find, realizing the detailed management

- Metal or plastic housing
- Low insertion loss, high strength, high precision
- Durability: 1000times
- Meet standard: GR-326-CORE, IEC 61754, YD/T 1272 series



## Performance

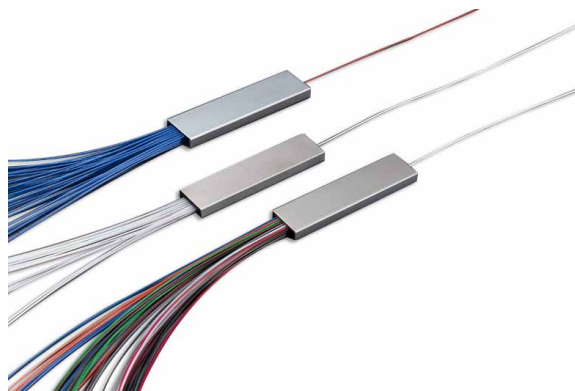
Interface	FC/ST/SC/LC /MPO/MU, etc	
Fiber type	Single mode	Multi mode
Insertion loss(dB)	Typical 0.2, Max.0.3	Typical 0.2, Max.0.3
Operation temperature (°C)	-40 ~ +75	-40 ~ +75
Environment-friendly	Comply with RoHS	Comply with RoHS

# Planar Light-Wave Circuit Splitter (PLC Splitter)

## Features

Planar Light-wave Circuit Splitter (PLCS) is based on the wave circuit process of unique silica glass, with reliable precision aligned fibre pigtail in a miniature package. It provides a low cost distribution solution with small dimension and high reliability.

- Low insertion loss, low PDL, high return loss.
- Excellent uniformity over a wide wavelength range from 1260nm to 1620nm
- Working in temperature from -40° to +85°
- Comply with Telcordia GR-1209, GR-1221, YD/T2000.1-2009 standard



# Bare Fiber Splitter

## Features

It's a kind of ODN product suitable for PON networks that can be installed in the pigtail cassette, test instrument and WDM system, it minimizes the space occupation. Bare fiber splitter is relatively fragile on fiber protection and need a complete protection design on carrying box body and device.



## Dimension

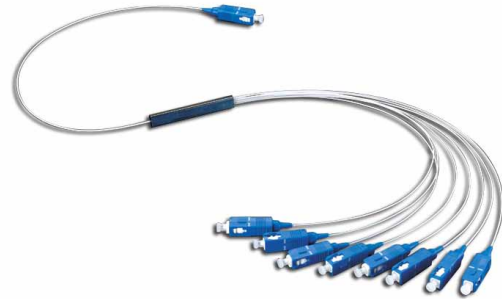
Split Ratio	1×2	1×4	1×8	1×16	1×32	1×64
L×W×H (mm)	40×4×4			50×4×4	55×7×4	60×12×4

# Micro-Splitter

## Features

Micro-splitter is stronger of fiber circuit protection than bare fiber splitter, which is a miniaturization result of cassette splitter. It's mainly used for various of connection and distribution box body or network cabinets and it's a intermediate choice of volume miniaturization and reliable fiber protection.

SC/LC/FC connectors are available, other connectors can be customerized.



## Dimension

Split Ratio	1×2	1×4	1×8	1×16	1×32	1×64
L×W×H (mm)	50×7×4/ 55×7×4			80×20×6		120×40×6

# Cassette Splitter

## Features

Cassette splitter is the most commonly used in the PON networks, and it has the complete protection for inner optical components and cable, as well as the convenient installation and easy to use, but its volume is relatively large. It's mainly used for various of connection and distribution products or network cabinets. SC/LC/FC connectors are available, other connectors can be customerized.



## Dimension

Split Ratio	1×2	1×4	1×8	1×16	1×32	1×64
L×W×H (mm)	100×80×10			120×80×18	140×115×18	

# Rack-Mounted Splitter

## Features

Rack-mounted splitter is composed of splitter unit box and splitter. Plate is made by high quality steel with electrostatic spraying on surface. It's applicable for the centralized splitting network structure. It can be installed on 19" standard integrated contribution cabinet, network cabinet and opening rack.

SC/LC/FC connectors are available, other connectors can be customized.



## Dimension

Split Ratio	1×2	1×4	1×8	1×16	1×32	1×64
L×W×H (mm)	19"1U (2U/3U.....) Customized					

# Outdoor Cross Connecting Cabinet for Optical Cable

## Features

Cross Connecting Cabinet for Communication Optical Cable is interface devices for the junction of trunk optical cable and distribution cable on the optical transmission network, used to implement the cable fixed and protection, optical fiber splicing and termination, optical fiber routing allocation and scheduling, internal equipment protection and other value-added module installed etc.

- Operating temperature:  $-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
- Ambient humidity:  $\leq 95\%(+40^{\circ}\text{C})$
- Atmospheric pressure:  $70 \text{ kPa} \sim 106 \text{ kPa}$
- Protection class: IP65
- Insulation resistance: The insulation resistance of between grounding device and casing metal components not less than  $2 \times 10^4 \text{ M}\Omega / 500 \text{ V (DC)}$
- Withstand Voltage: The withstand voltage of between grounding device and casing metal components not less than  $3000 \text{ V (DC) / 1 min}$
- Insert loss:  $\leq 0.3 \text{ dB}$
- Return loss: PC type  $\geq 45 \text{ dB}$ , UPC type  $\geq 50 \text{ dB}$ , APC type  $\geq 60 \text{ dB}$
- Meet national standards such as YD/T988-2007, GB/T2423-2008, GB/T3873-1998, GB/T9286-1998 and international standards as IEC 60529, IEC 62134-1, UL94.

# Cross Connecting Cabinet

## Features

- Double-layer stainless steel casing, sandwich structure, strong protective ability outdoor
- Three point lock, hinge built-in, effective destruction-proof
- Tray type terminating unit, modular design, convenient installation and expansion
- Reliable cable introducing and protection device, suitable for ribbon and bunch cable
- Universal adapter plug-in fits a variety of adapters such as SC, FC, LC, etc
- Adapter inclined arrangement, avoid laser burns eyes
- Reasonable fiber routing, ensure fiber bend radius larger than 37.5mm at any position





# Non-Patch Cord Cross Connecting Cabinet

## Features

- Function unit modular design, convenient expansion, fiber routing clear and reasonable
- "Plug-and-play type optical splitter", reduce quantity of fiber adapter and patch cord, reduce the fault point and insertion loss
- SMC casing that high strength, weathering resistance, corrosion resistance
- Three point lock, hinge built-in, effective destruction-proof
- Reliable cable introducing and protection device, suitable for ribbon and bunch cable
- Universal adapter plug-in fits a variety of adapters such as SC, FC, LC, etc
- Adapter inclined arrangement, avoid laser burns eyes
- Reasonable fiber routing, ensure fiber bend radius larger than 37.5mm at any position



# Non-Patch Cord Cross Connecting Cabinet

## Features

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- Universal adapter plug-in fits a variety of adapters such as SC, FC, LC, etc
- Adapter inclined arrangement, avoid laser burns eyes
- Reasonable fiber routing, ensure fiber bend radius larger than 37.5mm at any position



## Fiber Optic Splice Closure

### Features

Fibre optic splice closure is mainly applicable to the straight-through and branching of aerial cables, buried cables and duct cables, as well as the protection on cables joints. Reasonable fiber routing, ensure fiber bend radius larger than 37.5mm at any position

- Protection class: IP68
- Operating Temperature:  $-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
- Storage Temperature:  $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Atmospheric pressure: 70kPa ~106kPa
- Pressure loss during the test: Internal pressure:100kPa, Elapsed time:24 hrs, Difference in pressure before and after the test  $\leq 2$  kPa at the same atmospheric conditions.
- Temperature cycling: Lowest/Highest temperature:( $-30/+60 \pm 2$ ); Internal pressure: ( $40 \pm 2$ )kPa, Number of cycles: 20. The tightness and visual appearance is ok
- Static load: Can bear the load of 2000N/100mm
- Cable axial tension: Can bear the minimal axial load of 800N
- Cable flexure: Can bear 10 cycles of the load of  $45^{\circ}$  bending and 150N
- Lifetime: Above 20 years
- Comply with domestic standard YD/T814.1-2004, YD/T814.2-2005 and international standard ITU L.13-2003, UL94.

# Half Type Fiber Optic Splice Closure

## Features

- Straight-through, branching, splitter, splicing and adaptation is available
- Application Environment: aerial, buried and manhole
- Stackable splice tray, easy open and maintenance
- Splice tray can be easily increased and reduced according to capacity
- bending radius of fibres in any place is greater than 30mm
- Mechanical seal can be opened which makes maintenance and capacity increasing more convenient



## Dome Type Fiber Optic Splice Closure

### Features

- Straight-through, branching, splitter, splicing and adaptation is available
- Application Environment: aerial, buried and manhole
- Stackable splice tray, easy open and maintenance
- Splice tray can be easily increased and reduced according to capacity
- Bending radius of fibres in any place is greater than 30mm
- Mechanical or heat-shrinkable seal can be chosen which make maintenance and capacity increasing more convenience



# Optical Fiber Cable Distribution Box

## Features

Optical fibre cable distribution box is a wiring line device of user terminals in FTTH system, it provides protection and management for fiber cable, and be used for terminating, cable branching, cross connection, and splitting.

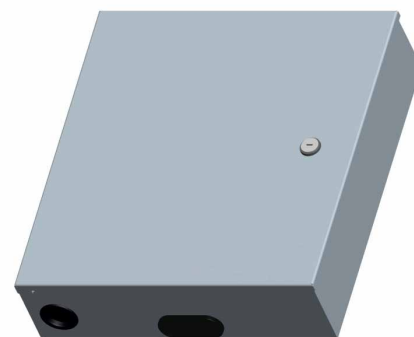
It is mainly used for user access point in FTTH-ODN network, it can be divided into indoor and outdoor type according to the installation scenario, and can be divided into distribution type and optic-split type according to the function.

- Operating temperature:  $-25^{\circ}\text{C}+40^{\circ}\text{C}$  (Indoor),  $-40^{\circ}\text{C}+60^{\circ}\text{C}$  (Outdoor type)
- Ambient humidity:  $\leq 95\%(+40^{\circ}\text{C})$
- Atmospheric pressure: 70 kPa ~ 106 kPa
- Insulation resistance: not less than  $2 \times 10^4 \text{ M}\Omega / 500 \text{ V (DC)}$
- Withstand Voltage(V): not less than 3000V (DC) /1min
- Insertion loss (dB):  $\leq 0.3\text{dB}$
- Return loss (dB): PC type $\geq 45\text{dB}$ , UPC type $\geq 50\text{dB}$ , APC type $\geq 60\text{dB}$
- Standards comply:  
Comply with domestic standard such as YD/T925-2009, GB/T2423-2008, GB/T3873-1998, GB/T9286-1998 and the international standard as IEC 61300-3-15, IEC 61300-3-16, IEC 61300-3-17, IEC 61300-3-23 and so on.

# Optical Splitter Cable Distribution Box

## Features

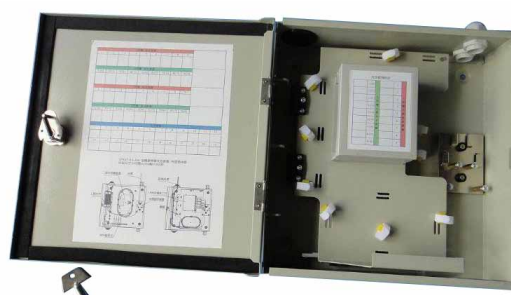
- High quality sheet metal material, Electrostatic Dusting on the surface, Good mechanical strength, Elegant appearance, sturdiness and durability
- Protection class:IP53
- Suitable for indoor, wall-mounted, pole, overhead installation
- Splitter Type : Cassette splitter, 1:8,1:16,1:32
- Built-in stacked splice tray, easy for open, the splice tray can be taken down, easy for installation and maintenance.
- FC,SCand LCthree kinds of adapters available, modeling design, convenient for fixing and maintenance
- Fibre routing reasonable, bending radius of fibres in any place is greater than 30mm
- The mark is clear, each fibre connection and distribution have obvious mark
- The box door opening Angle is greater than 120°, operate and maintain conveniently
- The rest of optical fibre protected by winding way



# Optical Splitter Cable Distribution Box

## Features

- High quality sheet metal material, Electrostatic Dusting on the surface, Good mechanical strength, Elegant appearance, sturdiness and durability
- Protection class: IP53
- Suitable for indoor, wall-mounted, pole, overhead installation
- Flap structure, Layout is reasonable, splicing zone below the flap, and distribution zone above the flap
- Splitter Type: Rack panel splitter 1:4,1:8,1:16,1:32
- FC,SC and LC three kinds of adapters available, modeling design, convenient for fixing and maintenance
- Fibre routing reasonable, bending radius of fibres in any place is greater than 30mm
- The mark is clear, each fibre connection and distribution have obvious marked
- The box door opening Angle is greater than 120°, operate and maintain conveniently
- The rest of optical fibre protected by winding way





# Optical Fiber Cable Distribution Box

## Features

- High quality engineer plastic material, Good mechanical strength, Elegant appearance, sturdiness and durability
- Protection class: IP55
- Suitable for indoor and outdoor, wall-mounted, pole, overhead installation
- Flap structure, Layout is reasonable, splicing zone below the flap, and distribution zone above the flap
- FC, SC and LC three kinds of adapters available, modeling design, convenient for fixing and maintenance
- Fibre routing reasonable, bending radius of fibres in any place is greater than 30mm
- The mark is clear, each fibre connection and distribution have obvious marked
- The box door opening Angle is greater than 120°, operate and maintain conveniently
- The rest of optical fibre protected by winding way



# Optical Fiber Splitter Cable Distribution Box

## Features

- High quality engineer plastic material, Good mechanical strength, Elegant appearance, sturdiness and durability
- Protection class: IP55
- Suitable for indoor and outdoor, wall-mounted, pole, overhead installation
- Splitter Type : Cassette splitter, 1:8,1:16,1:32
- Flap structure, layout is reasonable, splicing zone below the flap, distribution zone above the flap
- FC,SC and LC three kinds of adapters available, modeling design, convenient for fixing and maintenance
- Fibre routing reasonable, bending radius of fibres in any place is greater than 30mm
- The mark is clear, each fibre connection and distribution has obvious marked
- The box door opening angle is greater than 120°, operate and maintain conveniently
- The rest of optical fibre protected by winding way



# Optical Fiber Splitter Cable Distribution Box

## Features

- High strength composite material (SMC), Good mechanical strength, Elegant appearance, sturdiness and durability
- Suitable for indoor and outdoor,, wall-mounted, pole, overhead installation
- Splitter Type: Rack panel splitter,1:4, 1:8,1:16,1:32
- Flap structure, Layout is reasonable, the splicing zone below the flap, Distribution zone above the flap
- FC,SCand LC three kinds of adapters available, modeling design, convenient for fixing and maintenance
- Fibre routing reasonable, bending radius of fibres in any place is greater than 30mm
- The mark is clear, each fibre connection and distribution have obvious mark
- The box door opening Angle is greater than 120°, operate and maintain conveniently
- The rest of optical fibre protected by winding way



# Optical Fiber Cable Terminal Case

## Features

Optical Fibre Cable Terminal Case is used for fibre termination and cross connection, it is suitable for connecting all kinds of cable, it also protects optical fibre and connectors.

- Operating temperature:  $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$  (Indoor type),  $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$  (Outdoor type)
- Ambient humidity:  $\leq 95\%(+40^{\circ}\text{C})$
- Atmospheric pressure: 70 kPa  $\sim$  106 kPa
- Insulation resistance: not less than  $2 \times 10^4 \text{ M } \Omega / 500 \text{ V (DC)}$
- Withstand Voltage: not less than 3000V (DC) / 1min
- Insertion loss (dB):  $\leq 0.3\text{dB}$
- Return loss (dB): PC type  $\geq 45\text{dB}$ , UPC type  $\geq 50\text{dB}$ , APC type  $\geq 60\text{dB}$
- Standards comply: Meet domestic standard, such as YD/T925-2009, GB/T2423-2008, GB/T3873-1998, GB/T 9286-1998, and international standards, such as IEC 61300-3-15, IEC 61300-3-16, IEC 61300-3-17, IEC 61300-3-23, etc.

# Optical Fiber Cable Terminal Case

## Features

- Made of high quality engineer plastic material (PC), Good mechanical strength, Elegant appearance, sturdiness and durability
- Suitable for indoor, wall-mounted installation
- Clamshell structure, lock by one bolt, the lid is easy to open and close
- Built-in Stacked splice tray, easy for open, the splice tray can be taken down, easy for installation and maintenance.
- Pigtail fastened by import elastomer, fixed reliably and convenient for use.
- Offer fixing devices of cable, pigtail, and grounding device inside the box
- Fibre routing reasonable, bending radius of fibres in any place is greater than 30mm



# Optical Fiber Cable Terminal Case

## Features

- High quality sheet metal material, Electrostatic Dusting on the surface, Good mechanical strength, Elegant appearance, sturdiness and durability
- Suitable for indoor ,wall-mounted installation
- FC,SC and LC three kinds of adapters available,Modeling design, convenient for fixing and maintenance
- Built-in stacked splice tray, easy for open, the splice tray can be taken down, easy for installation and maintenance.
- Pigtail fastened by import elastomer, fixed reliably and conveniently
- Offer fixing devices of cable, pigtail and grounding inside the box
- Fibre routing reasonable, bending radius of fibres in any place is greater than 30mm



## Rack-Mount Terminal Box

### Features

- Standard 19" structure, mounting lug position can be adjusted, adapting to different mounting scene
- High density, 1U height up to 48 cores (double LC adapter)
- Drawer structure, convenient use, maintenance and operation
- Unified rack, a variety of optional adapter panel can be chosen, flexible application and expansion
- Applicable to FC (D type), SC, LC, LC(duplex) and other adapter by choosing different adapter panel



# Drop Cable Patch Cord

## Features

- Bow-type drop cable jumper is made up of indoor bow-type drop cable and fiber connector, it can be used for household wiring in FTTH.
- Low insertion loss, high return loss
- High strength, and comply with the construction requirements
- Durability: 500times
- LSZH outer sheath
- Meet standards: GR-326-CORE, IEC 61754 series, YD/T 1272 series.



## Performance

Connector type	FC/SC, etc.	
Fiber	Single mode	Multi mode
Insertion loss(dB)	Typical 0.2, Max.0.3	Typical 0.2, Max.0.3
Operation temperature (°C)	-40 ~ +75	-40 ~ +75
Return loss(dB)	PC≥45, UPC≥50, APC≥60,	NA
Operation temperature (°C)	-40 ~ +75	-40 ~ +75
Fiber retention	50N	50N
Environment-friendly	Comply with RoHS	Comply with RoHS



# Multimedia Information Box

## Features

multimedia information box is generally used in home decoration nowadays. It provides unified management and defined the distribution of cabling on weak current signal line, such as copper, telephone cable, television cable, and optical fiber cable, the multimedia information box makes the routing clear and tidy, and provides protection and management of the cabling and network equipment.

- Indoor, wall embedded installation
- High quality sheet metal material as body of the box, sturdiness and durability, high strength engineering plastic as cover of the box, elegant appearance and durability
- Flip structure, provides space for modem, router, and other modules
- The box door opening Angle is greater than 150°, operate and maintain conveniently
- Fibre routing reasonable, bending radius of fibres in any place is greater than 30mm
- Comply with domestic standard YDT 1313-2008, GB50846-2012 and the international standard as UL 94, IEC 60529.



## Performance

- Operating Temperature:  $-5^{\circ}\text{C} \sim +45^{\circ}\text{C}$
- Ambient humidity:  $\leq 95\%(+40^{\circ}\text{C})$
- Atmospheric pressure:  $70 \text{ kPa} \sim 106 \text{ kPa}$

# Optical Fiber Information Panel

## Features

Optical fibre information panel is a fixed connection device, which is used to terminate the drop cable in the office area, residential area, business district, and is made up of bottom box and front cover.

Optical fibre information panel can be classified into exposed and concealed type for installation.

## Performance

- Operating Temperature:  $-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
- Storage Temperature:  $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Atmospheric pressure:  $70\text{kPa} \sim 106\text{kPa}$
- Cable types: drop cable, pigtail, outdoor cable( $\Phi 8\text{mm} \sim \Phi 10.5\text{mm}$ )
- Meet domestic standard Q/CT 2353-2011



The background features a large white circle on the left side, partially overlapping a grey area on the right. Below the circle, there are several overlapping, curved grey shapes that create a sense of depth and movement. The word "Warranties" is centered within the white circle.

# Warranties

# SMARTen Warranty

## Definitions

### RiT Tech

RiT Tech Ltd. 20 Atir Yeda St., Kfar Saba, Israel  
Tel: 972-77-2707270, Fax: 972-3-6474115

### Certified Cabling Installer

A cabling installer certified by RiT to install and support RiT cabling products.

### Registered Installation

An installation where registration forms have been completed by a Certified Cabling Installer and RiT has issued a Registered Installation Certificate and a registration number.

### Effective Date

The date of the Registered Installation Certificate issued by RiT.

### Warranty Period

Twenty Five years from the Effective Date.

### SMARTen Components

The patch panels, communications outlets, cables and patch cords marked by a **C6A** icon.

### Cabling System

Components used to constitute one or more end-to-end cable links consisting of a length of cable, one end terminated in a Patch Panel, and the other in a communications outlet or another Patch Panel. One end of the link may have a patch cord. A Cabling System is defined as any number of such links.

### SMARTen Cabling System™

A Cabling System comprised exclusively of SMARTen Components, installed by a Certified Cabling Installer and qualified as a Registered Installation.

### Beneficiary

The person or entity to whom the original RiT Registered Installation Certificate was issued. A new tenant or owner of an existing SMARTen Cabling System must apply for installation recertification and for a new Registered Installation Certificate.

### Standards

ANSI/TIA/EIA-568-C.2 - Transmission Performance Specifications for 4 Pair 100 ohm Category 6A Cabling,  
ISO/IEC 11801 2<sup>nd</sup> edition (2002), amendment 2  
CENELEC EN50173 (200x) for Category 6A/CLASS E<sub>A</sub>  
ANSI - American National Standards Institute  
TIA - Telecom Industries Association  
EIA - Electrical Industries Association  
ISO - International Standards Organization  
IEC - International Electrotechnical Commission

### Warranties

The Component Warranty

Any SMARTen Component included in a Registered Installation will be free from manufacturing defects in material and workmanship under normal and proper use.

### The Performance Warranty

- Any SMARTen Component for copper cabling included in a Registered Installation of a SMARTen Cabling System will meet or exceed the electrical parameters stated in the above Standards.
- Any copper permanent link included in a Registered Installation of a SMARTen Cabling System will meet or exceed the electrical parameters stated in the above Standards, for permanent links and channels.
- Any copper permanent link included in a Registered Installation of a SMARTen Cabling System will be capable of delivering at least 10Gbps to the workstation.

### The Application Warranty

Any SMARTen Cabling System will be free from failures which prevent any of the application(s) for which the SMARTen Cabling System installation was designed.

## What RiT Will Do

RiT, or a RiT Certified Cabling Installer will repair or replace, at their discretion, defective SMARTen Components which violate the above warranties, with no charge to the Beneficiary.

## Warranty Claim Procedure

- In the event of a system failure, the Beneficiary must rule out potential causes which are not related to the SMARTen Cabling System.
- After the problem has been isolated to the SMARTen Cabling System, the Beneficiary must have the installation inspected by a RiT Certified Cabling Installer, and complete a Warranty Claim form provided by RiT. Part of the form must be completed by the RiT Certified Cabling Installer who inspected the installation. The signed form should be forwarded to RiT.
- If according to the form, and in the sole opinion of RiT, there exists a valid Warranty claim, RiT will be responsible for the repair or replacement of the defective SMARTen Components.
- If after inspection, the problem is found to be the fault of something other than the SMARTen Cabling System, RiT and RiT's Certified Cabling Installer will invoice the Beneficiary for all related labor, travel expenses and normal personnel and equipment charges. By acceptance of the Registered Installation Certificate, the Beneficiary acknowledges an agreement to pay all charges considered to be normal industry charges for work completed in regards to processing the claim.

## Limitations

This Warranty is given only to brand new SMARTen Components, installed according to RiT's specifications and instructions, and is valid only if all the following conditions are met:

- The Cabling System is a SMARTen Cabling System.
- All SMARTen Components are operated within their operational limits, as specified on the appropriate product manufacturer's datasheets, for the whole of the Warranty Period.
- This Warranty applies to the first installation of the SMARTen Components. Any alterations to the original Registered Installation of the SMARTen Cabling System, beyond normal customer interface, must be registered with RiT and a new Registered Installation Certificate must be issued by RiT. If any portion of the SMARTen Cabling System was altered without registration with RiT, this Warranty is void. RiT, at its discretion, retains the right to refuse to register a system it deems incorrectly designed or installed.

## General

- RiT's liability under this Warranty is limited in all aspects to the value of goods supplied by RiT and in no event shall RiT be liable for special, indirect and/or consequential damages. The Beneficiary relies on his/her own skill and judgment as to the suitability of all goods offered and supplied for any particular purpose or for use under any specific conditions.
- Beneficiary's exclusive and RiT's entire liability arising from or in connection with the SMARTen Components, the SMARTen Cabling System and/or this Warranty for breach of warranty or arising from or in connection with the use or inability to use the SMARTen Components and/or the SMARTen Cabling System, whether in contract or in tort or otherwise shall be limited to the express remedies provided herein.
- This Warranty is in force as of its title date and will remain in force until amended by RiT, at its sole discretion. No notice of such amendment will be given. The Warranty version which applies to a specific SMARTen Component is the one which was in force at the Effective Date.
- This Warranty in all respects, shall be construed and operate as an Israeli contract and in conformity with Israeli Law.



CAT-6

# SMART CLASSix Warranty

## Definitions

### iT Tech

RiT Tech Ltd. 20 Atir Yeda St., Kfar Saba, Israel  
Tel: 972-77-2707270, Fax: 972-3-6474115

### Certified Cabling Installer

A cabling installer certified by RiT to install and support RiT cabling products.

### Registered Installation

An installation where registration forms have been completed by a Certified Cabling Installer and RiT has issued a Registered Installation Certificate and a registration number.

### Effective Date

The date of the Registered Installation Certificate issued by RiT.

### Warranty Period

Twenty Five years from the Effective Date.

### SMART CLASSix Components

The patch panels, communications outlets, cables and patch cords marked by a **C6** icon.

### Cabling System

Components used to constitute one or more end-to-end cable links consisting of a length of cable, one end terminated in a Patch Panel, and the other in a communications outlet or another Patch Panel. One end of the link may have a patch cord. A Cabling System is defined as any number of such links.

### SMART CLASSix Cabling System™

A Cabling System comprised exclusively of SMART CLASSix Components, installed by a Certified Cabling Installer and qualified as a Registered Installation.

### Beneficiary

The person or entity to whom the original RiT Registered Installation Certificate was issued. A new tenant or owner of an existing SMART CLASSix Cabling System must apply for installation recertification and for a new Registered Installation Certificate.

### Standards

ANSI/TIA/EIA-568-C.2

Transmission performance specifications for 4-pairs 100 ohm Category 6 cabling

Requirements: Connecting Hardware, Cables, Patch cords, Permanent link & channel

ISO/IEC 11801 2<sup>nd</sup> edition (2002), amendment 2

Information technology - Generic cabling for customer premises

Requirements: Connecting Hardware, Cables, Patch cords, Permanent link & channel. CENELEC EN 50173-1, 2002

Information technology - Generic cabling systems: General requirements and office areas

Requirements: Connecting Hardware, Cables, Patch cords, Permanent link & channel

ANSI - American National Standards Institute

TIA - Telecom Industries Association

EIA - Electrical Industries Association

ISO - International Standards Organization

IEC - International Electrotechnical Commission

### Warranties

#### The Component Warranty

Any SMART CLASSix Component included in a Registered Installation will be free from manufacturing defects in material and workmanship under normal and proper use.

#### The Performance Warranty

- Any SMART CLASSix Component for copper cabling included in a Registered Installation of a SMART CLASSix Cabling System will meet or exceed the electrical parameters stated in the above Standards.
- Any copper link included in a Registered Installation of a SMART CLASSix Cabling System will meet or exceed the electrical parameters stated in the above Standards, for permanent links and channels.
- Any copper permanent link included in a Registered Installation of a SMART CLASSix Cabling System will be capable of delivering at least 1Gbps to the workstation.

## The Application Warranty

Any SMART CLASSix Cabling System will be free from failures which prevent any of the application(s) for which the SMART CLASSix Cabling System installation was designed.

### What RiT Will Do

RiT, or a RiT Certified Cabling Installer will repair or replace, at their discretion, defective SMART CLASSix Components which violate the above warranties, with no charge to the Beneficiary.

### Warranty Claim Procedure

- In the event of a system failure, the Beneficiary must rule out potential causes which are not related to the SMART CLASSix Cabling System.
- After the problem has been isolated to the SMART CLASSix Cabling System, the Beneficiary must have the installation inspected by a RiT Certified Cabling Installer, and complete a Warranty Claim form provided by RiT. Part of the form must be completed by the RiT Certified Cabling Installer who inspected the installation. The signed form should be forwarded to RiT.
- If according to the form, and in the sole opinion of RiT, there exists a valid Warranty claim, RiT will be responsible for the repair or replacement of the defective SMART CLASSix Components including labor costs.
- If after inspection, the problem is found to be the fault of something other than the SMART CLASSix Cabling System, RiT and RiT's Certified Cabling Installer will invoice the Beneficiary for all related labor, travel expenses and normal personnel and equipment charges. By acceptance of the Registered Installation Certificate, the Beneficiary acknowledges an agreement to pay all charges considered to be normal industry charges for work completed in regards to processing the claim.

### Limitations

This Warranty is given only to brand new SMART CLASSix Components, installed according to RiT's specifications and instructions, and is valid only if all the following conditions are met:

- The Cabling System is a SMART CLASSix Cabling System.
- The SMART-CLASSix Cabling System was installed according to RiT's specifications and instructions and the applicable standard.
- The SMART-CLASSix Cabling System was installed according to RiT's specifications and instructions and the applicable standard.
- All SMART CLASSix Components are operated within their operational limits, as specified on the appropriate product manufacturer's datasheets, for the whole of the Warranty Period.
- This Warranty applies to the first installation of the SMART CLASSix Components. Any alterations to the original Registered Installation of the SMART CLASSix Cabling System, beyond normal customer interface, must be registered with RiT and a new Registered Installation Certificate must be issued by RiT. If any portion of the SMART CLASSix Cabling System was altered without registration with RiT, this Warranty is void. RiT, at its discretion, retains the right to refuse to register a system it deems incorrectly designed or installed.

### General

- RiT's liability under this Warranty is limited in all aspects to the value of goods supplied by RiT and in no event shall RiT be liable for special, indirect and/or consequential damages.
- The Beneficiary relies on his/her own skill and judgment as to the suitability of all goods offered and supplied for any particular purpose or for use under any specific conditions.
- RiT shall be under no liability whatsoever for any breach of contract, however arising, whether of any express or implied condition, warranty or terms of contract (and whether amounting to a repudiation or fundamental breach or not) nor for negligence including mis-statement either in tort or contract or otherwise, nor for any loss, injury or damage whether direct or consequential where flowing from any defect latent or otherwise and whether or not attributable to any delay in repair or replacement by RiT and whether in tort or contract or otherwise.
- This Warranty is in force as of its title date and will remain in force until amended by RiT, at its sole discretion. No notice of such amendment will be given. The Warranty version which applies to a specific SMART CLASSix Component is the one which was in force at the Effective Date.
- This Warranty in all respects, shall be construed and operate as an Israeli contract and in conformity with Israeli Law.

# SMART Giga Warranty

## Definitions

### RiT Tech

RiT Tech Ltd. 20 Atir Yeda St., Kfar Saba, Israel  
Tel: 972-77-2707270, Fax: 972-3-6474115

### Certified Cabling Installer

A cabling installer certified by RiT to install and support RiT cabling products.

### Registered Installation

An installation where registration forms have been completed by a Certified Cabling Installer and RiT has issued a Registered Installation Certificate and a registration number.

### Effective Date

The earlier of:

- The completion date of the installation.
- The date of the Registered Installation Certificate issued by RiT

### Warranty Period

Twenty Five years from the Effective Date.

### SMART Giga Components

The Patch Panels, communications outlets, cables and patch cords marked by a **C5e** icon.

### Cabling System

Components used to constitute one or more end-to-end cable links consisting of a length of cable, one end terminated in a patch panel, and the other in a communications outlet or another patch panel. One end of the link may have a patch cord. A Cabling System is defined as any number of such links.

### SMART Giga Cabling System™

A Cabling System comprised exclusively of SMART Giga Components, installed by a Certified Cabling Installer and qualified as a Registered Installation.

### Beneficiary

The person or entity to whom the original RiT Registered Installation Certificate was issued. A new tenant or owner of an existing SMART Giga Cabling System must apply for installation recertification and for a new Registered Installation Certificate.

### Standards

ANSI/TIA/EIA-568-C.2  
Telecommunications Cabling Standard  
ISO/IEC 11801 2<sup>nd</sup> edition (2002), amendment 2  
Generic Cabling for Customer Premises  
EN 50173 second edition  
Performance Requirements of Generic Cabling Schemes  
ANSI - American National Standards Institute  
TIA - Telecom Industries Association  
EIA - Electrical Industries Association  
ISO - International Standards Organization  
IEC - International Electrotechnical Commission

### Warranties

#### The Component Warranty

Any SMART Giga Component included in a Registered Installation will be free from manufacturing defects in material and workmanship under normal and proper use.

#### The Performance Warranty

- Any SMART Giga Component for copper cabling included in a Registered Installation of a SMART Giga Cabling System will meet or exceed the electrical parameters stated in the above Standards.
- Any copper permanent link included in a Registered Installation of a SMART Giga Cabling System will meet or exceed the electrical parameters stated in the above Standards, for permanent links and channels.
- Any copper permanent link included in a Registered Installation of a SMART Giga Cabling System will be capable of delivering at least 1Gbps to the workstation.

#### The Application Warranty

Any SMART Giga Cabling System will be free from failures which prevent any of the following applications for which the original SMART Giga Cabling System installation was designed.

## What RiT Will Do

RiT, or a RiT Certified Cabling Installer will repair or replace, at their discretion, defective SMART Giga Components which violate the above warranties, with no charge to the Beneficiary.

## Warranty Claim Procedure

- In the event of a system failure, the Beneficiary must rule out potential causes which are not related to the SMART Giga Cabling System.
- After the problem has been isolated to the SMART Giga Cabling System, the Beneficiary must have the installation inspected by a RiT Certified Cabling Installer, and complete a Warranty Claim form provided by RiT. Part of the form must be completed by the RiT Certified Cabling Installer who inspected the installation. The signed form should be forwarded to RiT.
- If according to the form, and in the sole opinion of RiT, there exists a valid Warranty claim, RiT will be responsible for the repair or replacement of the defective SMART Giga Components including labor costs.
- If after inspection, the problem is found to be the fault of something other than the SMART Giga Cabling System, RiT and RiT's Certified Cabling Installer will invoice the Beneficiary for all related labor, travel expenses and normal personnel and equipment charges. By acceptance of the Registered Installation Certificate, the Beneficiary acknowledges an agreement to pay all charges considered to be normal industry charges for work completed in regards to processing the claim.

## Limitations

This Warranty is given only to brand new SMART Giga Components, installed according to RiT's specifications and instructions, and is valid only if all the following conditions are met:

- The Cabling System is a SMART Giga Cabling System.
- UTP SMART Giga Components may not be mixed with screened and/or shielded SMART Giga Components in one Cabling System.
- The SMART Giga Cabling System was installed according to RiT's specifications and instructions and the applicable standard.
- All SMART Giga Components are operated within their operational limits, as specified on the appropriate product manufacturer's data sheets, for the whole of the Warranty Period.
- This Warranty applies to the first installation of the SMART Giga Components. Any alterations to the original Registered Installation of the SMART Giga Cabling System, beyond normal customer interface, must be registered with RiT and a new Registered Installation Certificate must be issued by RiT. If any portion of the SMART Giga Cabling System was altered without registration with RiT, this Warranty is void. RiT, at its discretion, retains the right to refuse to register a system it deems incorrectly designed or installed.

## General

- RiT's liability under this Warranty is limited in all aspects to the value of goods supplied by RiT and in no event shall RiT be liable for consequential damages.
- The Beneficiary relies on his own skill and judgment as to the suitability of all goods offered and supplied for any particular purpose or for use under any specific conditions.
- RiT shall be under no liability whatsoever for any breach of contract, however arising, whether of any express or implied condition, warranty or terms of contract (and whether amounting to a repudiation or fundamental breach or not) nor for negligence including mis-statement either in tort or contract or otherwise, nor for any loss, injury or damage whether direct or consequential where flowing from any defect latent or otherwise and whether or not attributable to any delay in repair or replacement by RiT and whether in tort or contract or otherwise.
- This Warranty is in force as of its title date and will remain in force until amended by RiT, at its sole discretion. No notice of such amendment will be given. The Warranty version which applies to a specific SMART Giga Component is the one which was in force at the Effective Date.
- This Warranty in all respects, shall be construed and operate as an Israeli contract and in conformity with Israeli Law.





# Fiber Optic Warranty

## Definitions

### RiT Tech

RiT Tech Ltd. 20 Atir Yeda St., Kfar Saba, Israel  
Tel: 972-77-2707270, Fax: 972-3-6474115

### Certified Cabling Installer

A cabling installer certified by RiT to install and support RiT cabling products.

### Registered Installation

An installation where registration forms have been completed by a Certified Cabling Installer and RiT has issued a Registered Installation Certificate and a registration number.

### Effective Date

The earlier of:

- The completion date of the installation.
- The date of the Registered Installation Certificate issued by RiT

### Warranty Period

Twenty Five years from the Effective Date.

### SMART F/O Components

The Patch Panels, communications outlets, cables and patch cords marked by an F/O icon.

### Cabling System

Components used to constitute one or more end-to-end cable links consisting of a length of cable, one end terminated in a patch panel, and the other in a communications outlet or another patch panel. One end of the link may have a patch cord. A Cabling System is defined as any number of such links.

### SMART F/O Cabling System

A Cabling System comprised exclusively of SMART F/O Components, installed by a Certified Cabling Installer and qualified as a Registered Installation.

### Beneficiary

The person or entity to whom the original RiT Registered Installation Certificate was issued. A new tenant or owner of an existing SMART F/O Cabling System must apply for installation recertification and for a new Registered Installation Certificate.

### Standards

ANSI/TIA/EIA-568-C.3 and ANSI/TIA/EIA-568-C.1

Optical Fiber cabling components standard

Commercial Building Telecommunications Cabling Standard - Part 1:

General Requirements - Addendum 3 - Supportable Distances and Channel Attenuation for Optical Fiber Applications by Fiber Type

ISO/IEC 11801 2<sup>nd</sup> edition

Information technology - Generic cabling for customer premises

CENELEC EN 50173-1, 2005

Information technology - Generic cabling systems: General requirements and office areas

ANSI - American National Standards Institute

TIA - Telecom Industries Association

EIA - Electrical Industries Association

ISO - International Standards Organization

IEC - International Electrotechnical Commission

### Warranties

#### The Component Warranty

Any SMART F/O Component included in a Registered Installation will be free from manufacturing defects in material and workmanship under normal and proper use.

#### The Performance Warranty

- Any SMART-F/O Component for fiber optic cabling included in a Registered Installation of a SMART-F/O Cabling System will meet or exceed the optical parameters stated in the above Standards.
- Any fiber optic link included in a Registered Installation of a SMART-F/O Cabling System will meet or exceed the optical parameters stated in the above Standards, for permanent links and channels.

#### The Application Warranty

Any SMART F/O Cabling System will be free from failures which prevent any of the following applications: for which the original SMART F/O Cabling System installation was designed.

## What RiT Will Do

RiT, or a RiT Certified Cabling Installer will repair or replace, at their discretion, defective SMART F/O Components which violate the above warranties, with no charge to the Beneficiary.

### Warranty Claim Procedure

- In the event of a system failure, the Beneficiary must rule out potential causes which are not related to the SMART-F/O Cabling System.
- The Beneficiary will conduct the performance tests using a calibrated and updated test equipment.
- After the problem has been isolated to the SMART-F/O Cabling System, the Beneficiary must have the installation inspected by a RiT Certified Cabling Installer, and complete a Warranty Claim form provided by RiT. Part of the form must be completed by the RiT Certified Cabling Installer who inspected the installation. The signed form should be forwarded to RiT.
- If, according to the form, and in the sole opinion of RiT, there exists a valid Warranty claim, RiT will be responsible for the repair or replacement of the defective SMART-F/O Components including labor costs.
- If, after inspection, the problem is found to be the fault of something other than the SMART-F/O Cabling System, RiT and RiT's Certified Cabling Installer will invoice the Beneficiary for all related labor, travel expenses and normal personnel and equipment charges. By acceptance of the Registered Installation Certificate, the Beneficiary acknowledges an agreement to pay all charges considered to be normal industry charges for work completed in regards to processing the claim.

### Limitations

This Warranty is given only to brand new SMART F/O Components, installed according to RiT's specifications and instructions, and is valid only if all the following conditions are met:

- The Cabling System is a SMART-F/O Cabling System.
- The Smart F/O Components of one Cabling System must own the same mechanical optical parameters such as the fiber core diameter.
- The SMART-F/O Cabling System was installed according to RiT's specifications and instructions and the applicable standard.
- All SMART-F/O Components are operated within their operational limits, as specified on the appropriate product manufacturer's data sheets, for the whole of the Warranty Period.
- This Warranty applies to the first installation of the SMART-F/O Components. Any alterations to the original Registered Installation of the SMART-F/O Cabling System, beyond normal customer interface, must be registered with RiT and a new Registered Installation Certificate must be issued by RiT. If any portion of the SMART-F/O Cabling System was altered without registration with RiT, this Warranty is void. RiT, at its discretion, retains the right to refuse to register a system it deems incorrectly designed or installed.

### General

- RiT's liability under this Warranty is limited in all aspects to the value of goods supplied by RiT and in no event shall RiT be liable for consequential damages.
- The Beneficiary relies on his own skill and judgment as to the suitability of all goods offered and supplied for any particular purpose or for use under any specific conditions.
- RiT shall be under no liability whatsoever for any breach of contract, however arising, whether of any express or implied condition, warranty or terms of contract (and whether amounting to a repudiation or fundamental breach or not) nor for negligence including mis-statement either in tort or contract or otherwise, nor for any loss, injury or damage whether direct or consequential where flowing from any defect latent or otherwise and whether or not attributable to any delay in repair or replacement by RiT and whether in tort or contract or otherwise.
- This Warranty is in force as of its title date and will remain in force until amended by RiT, at its sole discretion. No notice of such amendment will be given. The Warranty version which applies to a specific SMART-F/O Component is the one which was in force at the Effective Date.
- This Warranty in all respects, shall be construed and operate as an Israeli contract and in conformity with Israeli Law.