

# Product Catalog 2016

## *CablingGuard*<sup>™</sup>

AT&T Cabling  
Physical Layer  
Management Suit

AT&T Cabling Systems





*AT&T Cabling Systems provide complete enterprise solutions and state-of-the-art LAN cabling components for all needs.*

## **AT&T Cabling Systems**

Our high-performance network infrastructure solutions based on innovative designs and highly advanced technology are the first choice for all applications. Faithful to the world-leading AT&T heritage, combining world-class reliability with the unique AT&T Millennium™ Lifetime warranty, AT&T Cabling Systems is your key to years of fail-safe and trouble-free operation, minimizing system downtime and maximizing your profits.

# AT&T Cabling Systems



## AT&T Cabling Systems Goals

AT&T Cabling Systems Continuous goals:

- Supply high performance network infrastructure solutions, virtually anywhere in the world.
- Provide high performance advanced technology and services.
- Satisfy the IT infrastructure needs of our global customers.
- Provide continuous expert support and be a reliable partner to all our customers.

*These goals are achieved by a unique combination of deep knowledge of all LAN cabling aspects, integrity, teamwork & creativity, all provided under the trusted AT&T brand.*

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# AT&T Cabling Systems

## About AT&T CablingGuard™

CablingGuard™ is a revolutionary and advanced physical layer management suit providing enterprises with the ability to manage their Physical Layer infrastructure with a level of visibility & integration unique in the structured cabling industry.

Using a combination of software, electronics and structured cabling products, CablingGuard™ enables users to track and manage their investment from planning through to design, procurement, installation, moves, adds and changes (MACs) and the eventual upgrade of the infrastructure, there by spanning its entire lifecycle.



# AT&T CablingGuard™

## CAT 5e Smart Ready / Smart *Unshielded Patch Panel*

### Smart Ready Unshielded Patch Panel

CablingGuard™ Category 5e Smart Ready Patch Panels are a cost effective solution to provide Category 5e connectivity while providing an upgrade path to full CablingGuard™ capability. The panel as delivered functions as a conventional Cat 5e patch panel and provides the capability to be upgraded to a fully functional CablingGuard™ panel with addition of the CablingGuard™ electronics smart card. Each panel contains 24 CablingGuard™ jacks which can be removed from the panel to be terminated individually.

The patch panel works as a conventional patch panel when not connected to the CablingGuard™ system. The CablingGuard™ patch panel is Category 5e compliant and meets the relevant cabling standards for Category 5e performance.

- *CablingGuard™ Smart Ready panel functions as a conventional patch panel as delivered*
- *Add CablingGuard™ Smart Cards to upgrade to full CablingGuard™ system capabilities*
- *Category 5e field configurable for T568 A/B*
- *Integral cable management shelf ensures bend radius compliance*
- *International hardware kit contains both ANSI and metric hardware*
- *Can be terminated using industry standard punch-down tools and the AT&T 4 Pair Termination Tool*

# AT&T CablingGuard™

## Smart Unshielded Patch Panel

CablingGuard™ Category 5e Smart Patch Panels are used within the CablingGuard™ System. Each 1U 24 Port Patch Panel has one data bus connection port located on the rear of the panel. The data bus connection port connects the panel to the CablingGuard™ Infrastructure Analyzer via a standard RJ45 patch cord. The patch panel is used by the CablingGuard™ system to track connectivity in the patch zone and work area. LED status indicators and LCD display on the panel show status of connectivity between the panel and the Infrastructure Analyzer and also provide panel guidance for work orders. Each panel contains 24 CablingGuard™ jacks which can be removed from the panel to be terminated individually with standard punch down tools or the AT&T 4 Pair Termination Tool. CablingGuard™ panels function as a standard patch panel when not connected to the CablingGuard™ system.

The patch panel works as a conventional patch panel when not connected to the CablingGuard™ system. The CablingGuard™ patch panel is Category 5e compliant and meets the relevant cabling standards for Category 5e performance.

- *Power Status LED's indicate connection and communication with the CablingGuard™ Infrastructure Analyzer*
- *CablingGuard™ Smart Jacks with port use indication*
- *Use Standard CAT 5e Patch Cords.*
- *CablingGuard™ Smart Card connection with the CablingGuard™ Infrastructure Analyzer is via an industry standard RJ45 patch cord*
- *Category 5e field configurable for T568 A/B*
- *Cable management shelf ensures bend radius compliance*
- *International hardware kit contains both ANSI and metric hardware*
- *Can be terminated using industry standard punch-down tools and the AT&T 4 Pair Termination Tool*
- *LED status indicators show status of connectivity between the panel and the Infrastructure Analyzer .*
- *LED status indicator on the panel calls for operator action (connect/disconnect patch-cord).*
- *LED status indicators on each port calls for operator action (connect/disconnect patch-cord).*
- *LED status indicators can be activated and deactivated from a remote location by the network supervisor.*
- *Port use indication on each port calls for monitoring connectivity (connect/disconnect patch-cord).*
- *The smart patch panel support up to four (4) LED modules in different colors.*

## AT&T CablingGuard™ Category 5e

Smart Ready / Smart Unshielded 24 Port Patch Panel

### Description

CablingGuard™ Smart Ready / Smart Unshielded 24 Port CAT 5e Patch Panel

Material	CRS (cold rolled steel)
Thickness	1.52 mm
Coating	Black Powdercoat
Shipping Weight	560 gr.

### Temperature Rating

Installation	0°C - 50°C
Operation	0°C - 50°C
Storage	-20°C - 60°C

### Standard & EU Directives Conformance

- TIA/EIA-568-C.2 Category 5e Channel Compliant
- ISO/IEC 11801 2nd Ed. Amendment

### Qualifications and Approvals

- EN-55022, Class B (Europe)
- FCC Part 15, Subpart J, Class A (USA)
- UL94 V-0 rated plastic materials
- Zero-halogen in LSOH constructions.

### Mechanical Properties

#### Jack Connector

Housing	Zinc Alloy plated bright Ni/Cu
Operating Life	Minimum 750 insertions
Contact Material	Copper Alloy
Contact Plating	1.25µm Gold over Nickel
Contact Force	100 g minimum
Plug Retention Force	6.8 kg minimum

#### IDC Connector

Housing	Plastic Housing	Polycarbonate UL94V-0 rated
Operating Life	Operating Life	Minimum 20 terminations of same gauge wire
Contact Material	Contact Material	Copper Alloy
IDC Contact Plating	IDC Contact Plating	Tin Matte
Wire Accommodation	Wire Accommodation	22-24 AWG solid wire



### Ordering Information - Panel

Description	Size	Dimensions mm	Color	P/N
CablingGuard™ 24 port RJ45 Unshielded CAT 5e 19" Smart Ready Patch Panel	1U	44.45x482.6x28.4	Black	CPU5EJV024U-BK1U

### Ordering Information - Smart Card

Description	Size	Dimensions mm	Color	P/N
CablingGuard™ CL2 Smart Card for Smart Ready Copper Patch Panel	1U	42x62x22	Red	CRSCPCL201N

### Ordering Information - LED Modules

Description	Color	P/N
CablingGuard™ LED Module for Smart Copper Patch Panel	Green	CLDCP00000N-GN
CablingGuard™ LED Module for Smart Copper Patch Panel	Red	CLDCP00000N-RD
CablingGuard™ LED Module for Smart Copper Patch Panel	Blue	CLDCP00000N-BL

# AT&T CablingGuard™

## CAT 5e Smart Ready / Smart *Shielded Patch Panel*

### Smart Ready Shielded Patch Panel

CablingGuard™ Category 5e Smart Ready Patch Panels are a cost effective solution to provide Category 5e connectivity while providing an upgrade path to full CablingGuard™ capability. The panel as delivered functions as a conventional Cat 5e patch panel and provides the capability to be upgraded to a fully functional CablingGuard™ panel with addition of the CablingGuard™ electronics smart card. Each panel contains 24 CablingGuard™ jacks which can be removed from the panel to be terminated individually.

The patch panel works as a conventional patch panel when not connected to the CablingGuard™ system. The CablingGuard™ patch panel is Category 5e compliant and meets the relevant cabling standards for Category 5e performance.

- *CablingGuard™ Smart Ready panel functions as a conventional patch panel as delivered*
- *Add CablingGuard™ Smart Cards to upgrade to full CablingGuard™ system capabilities*
- *Category 5e field configurable for T568 A/B*
- *Integral cable management shelf ensures bend radius compliance*
- *International hardware kit contains both ANSI and metric hardware*
- *Can be terminated using industry standard punch-down tools and the AT&T 4 Pair Termination Tool*

# AT&T CablingGuard™

## Smart Shielded Patch Panel

CablingGuard™ Category 5e Smart Patch Panels are used within the CablingGuard™ System. Each 1U 24 Port Patch Panel has one data bus connection port located on the rear of the panel. The data bus connection port connects the panel to the CablingGuard™ Infrastructure Analyzer via a standard RJ45 patch cord. The patch panel is used by the CablingGuard™ system to track connectivity in the patch zone and work area. LED status indicators and LCD display on the panel show status of connectivity between the panel and the Infrastructure Analyzer and also provide panel guidance for work orders. Each panel contains 24 CablingGuard™ jacks which can be removed from the panel to be terminated individually with standard punch down tools or the AT&T 4 Pair Termination Tool. CablingGuard™ panels function as a standard patch panel when not connected to the CablingGuard™ system.

The patch panel works as a conventional patch panel when not connected to the CablingGuard™ system. The CablingGuard™ patch panel is Category 5e compliant and meets the relevant cabling standards for Category 5e performance.

- *Power Status LED's indicate connection and communication with the CablingGuard™ Infrastructure Analyzer*
- *CablingGuard™ Smart Jacks with port use indication*
- *Use Standard CAT 5e Patch Cords.*
- *CablingGuard™ Smart Card connection with the CablingGuard™ Infrastructure Analyzer is via an industry standard RJ45 patch cord*
- *Category 5e field configurable for T568 A/B*
- *Cable management shelf ensures bend radius compliance*
- *International hardware kit contains both ANSI and metric hardware*
- *Can be terminated using industry standard punch-down tools and the AT&T 4 Pair Termination Tool*
- *LED status indicators show status of connectivity between the panel and the Infrastructure Analyzer .*
- *LED status indicator on the panel calls for operator action (connect/disconnect patch-cord).*
- *LED status indicators on each port calls for operator action (connect/disconnect patch-cord).*
- *LED status indicators can be activated and deactivated from a remote location by the network supervisor.*
- *Port use indication on each port calls for monitoring connectivity (connect/disconnect patch-cord).*
- *The smart patch panel support up to four (4) LED modules in different colors.*

## AT&T CablingGuard™ Category 5e

### Smart Ready / Smart Shielded 24 Port Patch Panel

#### Description

CablingGuard™ Smart Ready / Smart Shielded 24 Port CAT 5e Patch Panel

Material	CRS (cold rolled steel)
Thickness	1.52 mm
Coating	Black Powdercoat
Shipping Weight	840 gr.

#### Temperature Rating

Installation	0°C - 50°C
Operation	0°C - 50°C
Storage	-20°C - 60°C

#### Standard & EU Directives Conformance

- TIA/EIA-568-C.2 Category 5e Channel Compliant
- ISO/IEC 11801 2nd Ed. Amendment

#### Qualifications and Approvals

- EN-55022, Class B (Europe)
- FCC Part 15, Subpart J, Class A (USA)
- UL94 V-0 rated plastic materials
- Zero-halogen in LSOH constructions.

#### Mechanical Properties

##### Jack Connector

Housing	Zinc Alloy plated bright Ni/Cu
Operating Life	Minimum 750 insertions
Contact Material	Copper Alloy
Contact Plating	1.25µm Gold over Nickel
Contact Force	100 g minimum
Plug Retention Force	6.8 kg minimum

##### IDC Connector

Plastic Housing	Polycarbonate UL94V-0 rated
Operating Life	Minimum 20 terminations of same gauge wire
Contact Material	Copper Alloy
IDC Contact Plating	Tin Matte
Wire Accommodation	22-24 AWG solid wire



#### Ordering Information - Panel

Description	Size	Dimensions mm	Color	P/N
CablingGuard™ 24 port RJ45 Shielded CAT 5e 19" Smart Ready Patch Panel	1U	44.45x482.6x28.4	Black	CPS5EJV024U-BK1U

#### Ordering Information - Smart Card

Description	Size	Dimensions mm	Color	P/N
CablingGuard™ CL2 Smart Card for Smart Ready Copper Patch Panel	1U	42x62x22	Red	CRSCPCL201N

#### Ordering Information - LED Modules

Description	Color	P/N
CablingGuard™ LED Module for Smart Copper Patch Panel	Green	CLDCP00000N-GN
CablingGuard™ LED Module for Smart Copper Patch Panel	Red	CLDCP00000N-RD
CablingGuard™ LED Module for Smart Copper Patch Panel	Blue	CLDCP00000N-BL

# AT&T CablingGuard™

## CAT 6 Smart Ready / Smart *Unshielded Patch Panel*

### Smart Ready Unshielded Patch Panel

CablingGuard™ Category 6 Smart Ready Patch Panels are a cost effective solution to provide Category 6 connectivity while providing an upgrade path to full CablingGuard™ capability. The panel as delivered functions as a conventional Cat 6 patch panel and provides the capability to be upgraded to a fully functional CablingGuard™ panel with addition of the CablingGuard™ electronics smart card. Each panel contains 24 CablingGuard™ jacks which can be removed from the panel to be terminated individually.

The patch panel works as a conventional patch panel when not connected to the CablingGuard™ system. The CablingGuard™ patch panel is Category 6 compliant and meets the relevant cabling standards for Category 6 performance.

- *CablingGuard™ Smart Ready panel functions as a conventional patch panel as delivered*
- *Add CablingGuard™ Smart Cards to upgrade to full CablingGuard™ system capabilities*
- *Category 6 field configurable for T568 A/B*
- *Integral cable management shelf ensures bend radius compliance*
- *International hardware kit contains both ANSI and metric hardware*
- *Can be terminated using industry standard punch-down tools and the AT&T 4 Pair Termination Tool*

# AT&T CablingGuard™

## Smart Unshielded Patch Panel

CablingGuard™ Category 6 Smart Patch Panels are used within the CablingGuard™ System. Each 1U 24 Port Patch Panel has one data bus connection port located on the rear of the panel. The data bus connection port connects the panel to the CablingGuard™ Infrastructure Analyzer via a standard RJ45 patch cord. The patch panel is used by the CablingGuard™ system to track connectivity in the patch zone and work area. LED status indicators and LCD display on the panel show status of connectivity between the panel and the Infrastructure Analyzer and also provide panel guidance for work orders. Each panel contains 24 CablingGuard™ jacks which can be removed from the panel to be terminated individually with standard punch down tools or the AT&T 4 Pair Termination Tool. CablingGuard™ panels function as a standard patch panel when not connected to the CablingGuard™ system.

The patch panel works as a conventional patch panel when not connected to the CablingGuard™ system. The CablingGuard™ patch panel is Category 6 compliant and meets the relevant cabling standards for Category 6 performance.

- *Power Status LED's indicate connection and communication with the CablingGuard™ Infrastructure Analyzer*
- *CablingGuard™ Smart Jacks with port use indication*
- *Use Standard CAT 6 Patch Cords.*
- *CablingGuard™ Smart Card connection with the CablingGuard™ Infrastructure Analyzer is via an industry standard RJ45 patch cord*
- *Category 6 field configurable for T568 A/B*
- *Cable management shelf ensures bend radius compliance*
- *International hardware kit contains both ANSI and metric hardware*
- *Can be terminated using industry standard punch-down tools and the AT&T 4 Pair Termination Tool*
- *LED status indicators show status of connectivity between the panel and the Infrastructure Analyzer .*
- *LED status indicator on the panel calls for operator action (connect/disconnect patch-cord).*
- *LED status indicators on each port calls for operator action (connect/disconnect patch-cord).*
- *LED status indicators can be activated and deactivated from a remote location by the network supervisor.*
- *Port use indication on each port calls for monitoring connectivity (connect/disconnect patch-cord).*
- *The smart patch panel support up to four (4) LED modules in different colors.*

## AT&T CablingGuard™ Category 6

### Smart Ready / Smart Unshielded 24 Port Patch Panel

#### Description

CablingGuard™ Smart Ready / Smart Unshielded 24 Port CAT 6 Patch Panel

Material	CRS (cold rolled steel)
Thickness	1.52 mm
Coating	Black Powdercoat
Shipping Weight	560 gr.

#### Temperature Rating

Installation	0°C - 50°C
Operation	0°C - 50°C
Storage	-20°C - 60°C

#### Standard & EU Directives Conformance

- TIA/EIA-568-C.2 Category 6 Channel Compliant
- ISO/IEC 11801 2nd Ed. Amendment

#### Qualifications and Approvals

- EN-55022, Class B (Europe)
- FCC Part 15, Subpart J, Class A (USA)
- UL94 V-0 rated plastic materials
- Zero-halogen in LSOH constructions.

#### Mechanical Properties

##### Jack Connector

Housing	Zinc Alloy plated bright Ni/Cu
Operating Life	Minimum 750 insertions
Contact Material	Copper Alloy
Contact Plating	1.25µm Gold over Nickel
Contact Force	100 g minimum
Plug Retention Force	6.8 kg minimum

##### IDC Connector

Housing	Plastic Housing	Polycarbonate UL94V-0 rated
Operating Life	Operating Life	Minimum 20 terminations of same gauge wire
Contact Material	Contact Material	Copper Alloy
IDC Contact Plating	IDC Contact Plating	Tin Matte
Wire Accommodation	Wire Accommodation	22-24 AWG solid wire



#### Ordering Information - Panel

Description	Size	Dimensions mm	Color	P/N
CablingGuard™ 24 port RJ45 Unshielded CAT 6 19" Smart Ready Patch Panel	1U	44.45x482.6x28.4	Black	CPU06JV024U-BK1U

#### Ordering Information - Smart Card

Description	Size	Dimensions mm	Color	P/N
CablingGuard™ CL2 Smart Card for Smart Ready Copper Patch Panel	1U	42x62x22	Red	CRSCPCL201N

#### Ordering Information - LED Modules

Description	Color	P/N
CablingGuard™ LED Module for Smart Copper Patch Panel	Green	CLDCP00000N-GN
CablingGuard™ LED Module for Smart Copper Patch Panel	Red	CLDCP00000N-RD
CablingGuard™ LED Module for Smart Copper Patch Panel	Blue	CLDCP00000N-BL

# AT&T CablingGuard™

## CAT 6 Smart Ready / Smart *Shielded Patch Panel*

### Smart Ready Shielded Patch Panel

CablingGuard™ Category 6 Smart Ready Patch Panels are a cost effective solution to provide Category 6 connectivity while providing an upgrade path to full CablingGuard™ capability. The panel as delivered functions as a conventional Cat 6 patch panel and provides the capability to be upgraded to a fully functional CablingGuard™ panel with addition of the CablingGuard™ electronics smart card. Each panel contains 24 CablingGuard™ jacks which can be removed from the panel to be terminated individually.

The patch panel works as a conventional patch panel when not connected to the CablingGuard™ system. The CablingGuard™ patch panel is Category 6 compliant and meets the relevant cabling standards for Category 6 performance.

- *CablingGuard™ Smart Ready panel functions as a conventional patch panel as delivered*
- *Add CablingGuard™ Smart Cards to upgrade to full CablingGuard™ system capabilities*
- *Category 6 field configurable for T568 A/B*
- *Integral cable management shelf ensures bend radius compliance*
- *International hardware kit contains both ANSI and metric hardware*
- *Can be terminated using industry standard punch-down tools and the AT&T 4 Pair Termination Tool*

# AT&T CablingGuard™

## Smart Shielded Patch Panel

CablingGuard™ Category 6 Smart Patch Panels are used within the CablingGuard™ System. Each 1U 24 Port Patch Panel has one data bus connection port located on the rear of the panel. The data bus connection port connects the panel to the CablingGuard™ Infrastructure Analyzer via a standard RJ45 patch cord. The patch panel is used by the CablingGuard™ system to track connectivity in the patch zone and work area. LED status indicators and LCD display on the panel show status of connectivity between the panel and the Infrastructure Analyzer and also provide panel guidance for work orders. Each panel contains 24 CablingGuard™ jacks which can be removed from the panel to be terminated individually with standard punch down tools or the AT&T 4 Pair Termination Tool. CablingGuard™ panels function as a standard patch panel when not connected to the CablingGuard™ system.

The patch panel works as a conventional patch panel when not connected to the CablingGuard™ system. The CablingGuard™ patch panel is Category 6 compliant and meets the relevant cabling standards for Category 6 performance.

- *Power Status LED's indicate connection and communication with the CablingGuard™ Infrastructure Analyzer*
- *CablingGuard™ Smart Jacks with port use indication*
- *Use Standard CAT 6 Patch Cords.*
- *CablingGuard™ Smart Card connection with the CablingGuard™ Infrastructure Analyzer is via an industry standard RJ45 patch cord*
- *Category 6 field configurable for T568 A/B*
- *Cable management shelf ensures bend radius compliance*
- *International hardware kit contains both ANSI and metric hardware*
- *Can be terminated using industry standard punch-down tools and the AT&T 4 Pair Termination Tool*
- *LED status indicators show status of connectivity between the panel and the Infrastructure Analyzer.*
- *LED status indicator on the panel calls for operator action (connect/disconnect patch-cord).*
- *LED status indicators on each port calls for operator action (connect/disconnect patch-cord).*
- *LED status indicators can be activated and deactivated from a remote location by the network supervisor.*
- *Port use indication on each port calls for monitoring connectivity (connect/disconnect patch-cord).*
- *The smart patch panel support up to four (4) LED modules in different colors.*

## AT&T CablingGuard™ Category 6

### Smart Ready / Smart Shielded 24 Port Patch Panel

#### Description

CablingGuard™ Smart Ready / Smart Shielded 24 Port CAT 6 Patch Panel

Material	CRS (cold rolled steel)
Thickness	1.52 mm
Coating	Black Powdercoat
Shipping Weight	840 gr.

#### Temperature Rating

Installation	0°C - 50°C
Operation	0°C - 50°C
Storage	-20°C - 60°C

#### Standard & EU Directives Conformance

- TIA/EIA-568-C.2 Category 6 Channel Compliant
- ISO/IEC 11801 2nd Ed. Amendment

#### Qualifications and Approvals

- EN-55022, Class B (Europe)
- FCC Part 15, Subpart J, Class A (USA)
- UL94 V-0 rated plastic materials
- Zero-halogen in LSOH constructions.

#### Mechanical Properties

##### Jack Connector

Housing	Zinc Alloy plated bright Ni/Cu
Operating Life	Minimum 750 insertions
Contact Material	Copper Alloy
Contact Plating	1.25µm Gold over Nickel
Contact Force	100 g minimum
Plug Retention Force	6.8 kg minimum

##### IDC Connector

Plastic Housing	Polycarbonate UL94V-0 rated
Operating Life	Minimum 20 terminations of same gauge wire
Contact Material	Copper Alloy
IDC Contact Plating	Tin Matte
Wire Accommodation	22-24 AWG solid wire



#### Ordering Information - Panel

Description	Size	Dimensions mm	Color	P/N
CablingGuard™ 24 port RJ45 Shielded CAT 6 19" Smart Ready Patch Panel	1U	44.45x482.6x28.4	Black	CPS06JV024U-BK1U

#### Ordering Information - Smart Card

Description	Size	Dimensions mm	Color	P/N
CablingGuard™ CL2 Smart Card for Smart Ready Copper Patch Panel	1U	42x62x22	Red	CRSCPCL201N

#### Ordering Information - LED Modules

Description	Color	P/N
CablingGuard™ LED Module for Smart Copper Patch Panel	Green	CLDCP00000N-GN
CablingGuard™ LED Module for Smart Copper Patch Panel	Red	CLDCP00000N-RD
CablingGuard™ LED Module for Smart Copper Patch Panel	Blue	CLDCP00000N-BL

# AT&T CablingGuard™

## CAT 6A Smart Ready / Smart *Unshielded Patch Panel*

### Smart Ready Unshielded Patch Panel

CablingGuard™ Category 6A Smart Ready Patch Panels are a cost effective solution to provide Category 6A connectivity while providing an upgrade path to full CablingGuard™ capability. The panel as delivered functions as a conventional Cat 6A patch panel and provides the capability to be upgraded to a fully functional CablingGuard™ panel with addition of the CablingGuard™ electronics smart card. Each panel contains 24 CablingGuard™ jacks which can be removed from the panel to be terminated individually.

The patch panel works as a conventional patch panel when not connected to the CablingGuard™ system. The CablingGuard™ patch panel is Category 6A compliant and meets the relevant cabling standards for Category 6A performance.

- *CablingGuard™ Smart Ready panel functions as a conventional patch panel as delivered*
- *Add CablingGuard™ Smart Cards to upgrade to full CablingGuard™ system capabilities*
- *Category 6A field configurable for T568 A/B*
- *Integral cable management shelf ensures bend radius compliance*
- *International hardware kit contains both ANSI and metric hardware*
- *Can be terminated using industry standard punch-down tools and the AT&T 4 Pair Termination Tool*

# AT&T CablingGuard™

## Smart Unshielded Patch Panel

CablingGuard™ Category 6A Smart Patch Panels are used within the CablingGuard™ System. Each 1U 24 Port Patch Panel has one data bus connection port located on the rear of the panel. The data bus connection port connects the panel to the CablingGuard™ Infrastructure Analyzer via a standard RJ45 patch cord. The patch panel is used by the CablingGuard™ system to track connectivity in the patch zone and work area. LED status indicators and LCD display on the panel show status of connectivity between the panel and the Infrastructure Analyzer and also provide panel guidance for work orders. Each panel contains 24 CablingGuard™ jacks which can be removed from the panel to be terminated individually with standard punch down tools or the AT&T 4 Pair Termination Tool. CablingGuard™ panels function as a standard patch panel when not connected to the CablingGuard™ system.

The patch panel works as a conventional patch panel when not connected to the CablingGuard™ system. The CablingGuard™ patch panel is Category 6A compliant and meets the relevant cabling standards for Category 6A performance.

- *Power Status LED's indicate connection and communication with the CablingGuard™ Infrastructure Analyzer*
- *CablingGuard™ Smart Jacks with port use indication*
- *Use Standard CAT 6A Patch Cords.*
- *CablingGuard™ Smart Card connection with the CablingGuard™ Infrastructure Analyzer is via an industry standard RJ45 patch cord*
- *Category 6A field configurable for T568 A/B*
- *Cable management shelf ensures bend radius compliance*
- *International hardware kit contains both ANSI and metric hardware*
- *Can be terminated using industry standard punch-down tools and the AT&T 4 Pair Termination Tool*
- *LED status indicators show status of connectivity between the panel and the Infrastructure Analyzer .*
- *LED status indicator on the panel calls for operator action (connect/disconnect patch-cord).*
- *LED status indicators on each port calls for operator action (connect/disconnect patch-cord).*
- *LED status indicators can be activated and deactivated from a remote location by the network supervisor.*
- *Port use indication on each port calls for monitoring connectivity (connect/disconnect patch-cord).*
- *The smart patch panel support up to four (4) LED modules in different colors.*

## AT&T CablingGuard™ Category 6A

Smart Ready / Smart Unshielded 24 Port Patch Panel

### Description

CablingGuard™ Smart Ready / Smart Unshielded 24 Port CAT 6A Patch Panel

Material CRS (cold rolled steel)  
 Thickness 1.52 mm  
 Coating Black Powdercoat  
 Shipping Weight 560 gr.

### Temperature Rating

Installation 0°C - 50°C  
 Operation 0°C - 50°C  
 Storage -20°C - 60°C

### Standard & EU Directives Conformance

- TIA/EIA-568-C.2 Category 6A Channel Compliant
- ISO/IEC 11801 2nd Ed. Amendment

### Qualifications and Approvals

- EN-55022, Class B (Europe)
- FCC Part 15, Subpart J, Class A (USA)
- UL94 V-0 rated plastic materials
- Zero-halogen in LSOH constructions.

### Mechanical Properties

#### Jack Connector

Housing Zinc Alloy plated bright Ni/Cu  
 Operating Life Minimum 750 insertions  
 Contact Material Copper Alloy  
 Contact Plating 1.25µm Gold over Nickel  
 Contact Force 100 g minimum  
 Plug Retention Force 6.8 kg minimum

#### IDC Connector

Plastic Housing Polycarbonate UL94V-0 rated  
 Operating Life Minimum 20 terminations of same gauge wire  
 Contact Material Copper Alloy  
 IDC Contact Plating Tin Matte  
 Wire Accommodation 22-24 AWG solid wire



### Ordering Information - Panel

Description	Size	Dimensions mm	Color	P/N
CablingGuard™ 24 port RJ45 Unshielded CAT 6A 19" Smart Ready Patch Panel	1U	44.45x482.6x28.4	Black	CPU6AJV024U-BK1U

### Ordering Information - Smart Card

Description	Size	Dimensions mm	Color	P/N
CablingGuard™ CL2 Smart Card for Smart Ready Copper Patch Panel	1U	42x62x22	Red	CRSCPCL201N

### Ordering Information - LED Modules

Description	Color	P/N
CablingGuard™ LED Module for Smart Copper Patch Panel	Green	CLDCP00000N-GN
CablingGuard™ LED Module for Smart Copper Patch Panel	Red	CLDCP00000N-RD
CablingGuard™ LED Module for Smart Copper Patch Panel	Blue	CLDCP00000N-BL

# AT&T CablingGuard™

## CAT 6A Smart Ready / Smart Shielded Patch Panel

### Smart Ready Shielded Patch Panel

CablingGuard™ Category 6A Smart Ready Patch Panels are a cost effective solution to provide Category 6A connectivity while providing an upgrade path to full CablingGuard™ capability. The panel as delivered functions as a conventional Cat 6A patch panel and provides the capability to be upgraded to a fully functional CablingGuard™ panel with addition of the CablingGuard™ electronics smart card. Each panel contains 24 CablingGuard™ jacks which can be removed from the panel to be terminated individually.

The patch panel works as a conventional patch panel when not connected to the CablingGuard™ system. The CablingGuard™ patch panel is Category 6A compliant and meets the relevant cabling standards for Category 6A performance.

- *CablingGuard™ Smart Ready panel functions as a conventional patch panel as delivered*
- *Add CablingGuard™ Smart Cards to upgrade to full CablingGuard™ system capabilities*
- *Category 6A field configurable for T568 A/B*
- *Integral cable management shelf ensures bend radius compliance*
- *International hardware kit contains both ANSI and metric hardware*
- *Can be terminated using industry standard punch-down tools and the AT&T 4 Pair Termination Tool*

# AT&T CablingGuard™

## Smart Shielded Patch Panel

CablingGuard™ Category 6A Smart Patch Panels are used within the CablingGuard™ System. Each 1U 24 Port Patch Panel has one data bus connection port located on the rear of the panel. The data bus connection port connects the panel to the CablingGuard™ Infrastructure Analyzer via a standard RJ45 patch cord. The patch panel is used by the CablingGuard™ system to track connectivity in the patch zone and work area. LED status indicators and LCD display on the panel show status of connectivity between the panel and the Infrastructure Analyzer and also provide panel guidance for work orders. Each panel contains 24 CablingGuard™ jacks which can be removed from the panel to be terminated individually with standard punch down tools or the AT&T 4 Pair Termination Tool. CablingGuard™ panels function as a standard patch panel when not connected to the CablingGuard™ system.

The patch panel works as a conventional patch panel when not connected to the CablingGuard™ system. The CablingGuard™ patch panel is Category 6A compliant and meets the relevant cabling standards for Category 6A performance.

- *Power Status LED's indicate connection and communication with the CablingGuard™ Infrastructure Analyzer*
- *CablingGuard™ Smart Jacks with port use indication*
- *Use Standard CAT 6A Patch Cords.*
- *CablingGuard™ Smart Card connection with the CablingGuard™ Infrastructure Analyzer is via an industry standard RJ45 patch cord*
- *Category 6A field configurable for T568 A/B*
- *Cable management shelf ensures bend radius compliance*
- *International hardware kit contains both ANSI and metric hardware*
- *Can be terminated using industry standard punch-down tools and the AT&T 4 Pair Termination Tool*
- *LED status indicators show status of connectivity between the panel and the Infrastructure Analyzer.*
- *LED status indicator on the panel calls for operator action (connect/disconnect patch-cord).*
- *LED status indicators on each port calls for operator action (connect/disconnect patch-cord).*
- *LED status indicators can be activated and deactivated from a remote location by the network supervisor.*
- *Port use indication on each port calls for monitoring connectivity (connect/disconnect patch-cord).*
- *The smart patch panel support up to four (4) LED modules in different colors.*

**AT&T Cabling Systems**



## AT&T CablingGuard™ Category 6A

### Smart Ready / Smart Shielded 24 Port Patch Panel

#### Description

CablingGuard™ Smart Ready / Smart Shielded 24 Port CAT 6A Patch Panel

Material	CRS (cold rolled steel)
Thickness	1.52 mm
Coating	Black Powdercoat
Shipping Weight	840 gr.

#### Temperature Rating

Installation	0°C - 50°C
Operation	0°C - 50°C
Storage	-20°C - 60°C

#### Standard & EU Directives Conformance

- TIA/EIA-568-C.2 Category 6A Channel Compliant
- ISO/IEC 11801 2nd Ed. Amendment

#### Qualifications and Approvals

- EN-55022, Class B (Europe)
- FCC Part 15, Subpart J, Class A (USA)
- UL94 V-0 rated plastic materials
- Zero-halogen in LSOH constructions.

#### Mechanical Properties

##### Jack Connector

Housing	Zinc Alloy plated bright Ni/Cu
Operating Life	Minimum 750 insertions
Contact Material	Copper Alloy
Contact Plating	1.25µm Gold over Nickel
Contact Force	100 g minimum
Plug Retention Force	6.8 kg minimum

##### IDC Connector

Plastic Housing	Polycarbonate UL94V-0 rated
Operating Life	Minimum 20 terminations of same gauge wire
Contact Material	Copper Alloy
IDC Contact Plating	Tin Matte
Wire Accommodation	22-24 AWG solid wire



#### Ordering Information - Panel

Description	Size	Dimensions mm	Color	P/N
CablingGuard™ 24 port RJ45 Shielded CAT 6A 19" Smart Ready Patch Panel	1U	44.45x482.6x28.4	Black	CPS6AJV024U-BK1U

#### Ordering Information - Smart Card

Description	Size	Dimensions mm	Color	P/N
CablingGuard™ CL2 Smart Card for Smart Ready Copper Patch Panel	1U	42x62x22	Red	CRSCPCL201N

#### Ordering Information - LED Modules

Description	Color	P/N
CablingGuard™ LED Module for Smart Copper Patch Panel	Green	CLDCP00000N-GN
CablingGuard™ LED Module for Smart Copper Patch Panel	Red	CLDCP00000N-RD
CablingGuard™ LED Module for Smart Copper Patch Panel	Blue	CLDCP00000N-BL

# AT&T CablingGuard™

## Fiber Optic Smart Ready / Smart *Pre-terminated Patch Panel*

CablingGuard™ FO Patch Panels are used within the CablingGuard™ System. Each 1U Patch Panel has one data bus connection port located on the rear of the panel. The data bus connection port connects the panel to the The CablingGuard™ Infrastructure Analyzer via a standard RJ45 patch cord.

The patch panel is used by the The CablingGuard™ system to track connectivity in the patch zone and work area. LED status indicators on the panel show status of connectivity between the panel and the Infrastructure Analyzer and also provide panel guidance for work orders.

The adapter interface can contains 48 duplex LC ports (96F) (24 LC x 4 Cassette), 48 Simplex SC ports (48F) (12 SC x 4 Cassette) terminations with Singlemode or Multimode options. The patch panel works as a conventional patch panel when not connected to the the CablingGuard™ system. CablingGuard™ patch panels fully conform to and provide a substantial margin above all ANSI/TIA-568-C.3 and ISO/IEC-11801 (2nd Edition) FO component requirements.

The CablingGuard™ Logo and the DataLight Trademark ensure long lasting high-performance and full support of most present applications.

- *Two power status indicators to ensure proper connection of power supply from the Infrastructure Analyzer.*
- *Data bus connection to the CablingGuard™ Infrastructure Analyzer done with an industry standard RJ45 patch cord.*
- *Panel options for Singlemode and Multimode fibers, including OS1, OS2 and OM1, OM2, OM3 or OM4*
- *International hardware kit contains both ANSI and metric hardware.*
- *Robust and installer-friendly design - providing reduced installation and operating costs.*
- *LED status indicators show status of connectivity between the panel and the Infrastructure Analyzer.*
- *LED status indicator on the panel calls for operator action (connect/disconnect patch-cord).*
- *LED status indicators on each port calls for operator action (connect/disconnect patch-cord).*
- *LED status indicators can be activated and deactivated from a remote location by the network supervisor.*
- *Port use indication on each port calls for monitoring connectivity (connect/disconnect patch-cord).*
- *The smart patch panel support up to four (4) LED modules in different colors.*

## AT&T CablingGuard™

### Fiber Optic Smart Ready / Smart Pre-terminated Patch Panel

#### Description

CablingGuard™ Smart Ready / Smart Pre-terminated FO Patch Panel	
Fiber options	Singlemode: OS1 & OS2. Multimode: OM1, OM2, OM3 & OM4
Material of construction	16 AWG cold rolled steel
Coating and color	Powder coating, black
Cassette Capacity	4 Cassette
Fiber Capacity	96 (12 Duplex LC x 4 Cassettes) 48 (12 Simplex SC x 4 Cassettes)
Total Cassette Channel Loss	0.50 dB (Low-loss) 0.35 dB (Super Low-loss)
Installation temperature	-40 to +75C
Operating temperature	-40 to +75C
Storage temperature	-40 to +75C
Packaging	One unit per box.



#### Standard & EU Directives Conformance

- ANSI/TIA-568-C.3
- ISO/IEC-11801 (2nd Edition)
- FCC Part F.68.5

#### Qualifications and Approvals

- UL94 V-0 rated plastic materials
- UL 1863 & CSA 22.2 (Pending)

#### Ordering Information - Panel

Description	Size	Dimensions mm	Color	P/N
CablingGuard™ Smart Ready FO Blank Panel, 19", 4 MTP Cassette Capacity	1U	482.6x44x162	Black	CPF00JV004N-BK1U

#### Ordering Information - Smart Card

Description	Size	Dimensions mm	Color	P/N
CablingGuard™ FL2 Smart Card for Smart Ready Pre-Terminated FO Patch Panel	1U	42x62x22	Red	CRSFPFL201N

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## AT&T CablingGuard™

### Fiber Optic Smart Ready / Smart Pre-terminated Patch Panel (contd.)

#### Ordering Information - MTP - LC Cassettes

Description	Front Couplers	Coupler Capacity	Fiber Capacity	MTP Ports	TIA-568-C.3 Polarity	Total Loss Option	Packaging	P/N
CablingGuard™ Empty Cassette	-	-	-	-	-	-	1/Box	CKBFP00000N
CablingGuard™ MTP - LC Cassette	LC/UPC OM3	12	24	2	Type-C	Low-Loss	1/Box	CKLM3JH224C-BK51
CablingGuard™ MTP - LC Cassette	LC/UPC OM3	12	24	2	Type-A	Low-Loss	1/Box	CKLM3JH224A-BK51
CablingGuard™ MTP - LC Cassette	LC/UPC OM3 BI	12	24	2	Type-C	Low-Loss	1/Box	CKLMBJH224C-BK51
CablingGuard™ MTP - LC Cassette	LC/UPC OM3 BI	12	24	2	Type-A	Low-Loss	1/Box	CKLMBJH224A-BK51
CablingGuard™ MTP - LC Cassette	LC/UPC OM4	12	24	2	Type-C	Low-Loss	1/Box	CKLM4JH224C-BK51
CablingGuard™ MTP - LC Cassette	LC/UPC OM4	12	24	2	Type-A	Low-Loss	1/Box	CKLM4JH224A-BK51
CablingGuard™ MTP - LC Cassette	LC/UPC OM4 BI	12	24	2	Type-C	Low-Loss	1/Box	CKLMSJH224C-BK51
CablingGuard™ MTP - LC Cassette	LC/UPC OM4 BI	12	24	2	Type-A	Low-Loss	1/Box	CKLMSJH224A-BK51
CablingGuard™ MTP - LC Cassette	LC/UPC OS2	12	24	2	Type-C	Low-Loss	1/Box	CKLS2JH224C-BK51
CablingGuard™ MTP - LC Cassette	LC/UPC OS2	12	24	2	Type-A	Low-Loss	1/Box	CKLS2JH224A-BK51
CablingGuard™ MTP - LC Cassette	LC/UPC G.657.A2	12	24	2	Type-C	Low-Loss	1/Box	CKLA2JH224C-BK51
CablingGuard™ MTP - LC Cassette	LC/UPC G.657.A2	12	24	2	Type-A	Low-Loss	1/Box	CKLA2JH224A-BK51
CablingGuard™ MTP - LC Cassette	LC/UPC OM3	12	24	2	Type-C	Super Low-Loss	1/Box	CKLM3JS224C-BK51
CablingGuard™ MTP - LC Cassette	LC/UPC OM3	12	24	2	Type-A	Super Low-Loss	1/Box	CKLM3JS224A-BK51
CablingGuard™ MTP - LC Cassette	LC/UPC OM3 BI	12	24	2	Type-C	Super Low-Loss	1/Box	CKLMBJS224C-BK51
CablingGuard™ MTP - LC Cassette	LC/UPC OM3 BI	12	24	2	Type-A	Super Low-Loss	1/Box	CKLMBJS224A-BK51
CablingGuard™ MTP - LC Cassette	LC/UPC OM4	12	24	2	Type-C	Super Low-Loss	1/Box	CKLM4JS224C-BK51
CablingGuard™ MTP - LC Cassette	LC/UPC OM4	12	24	2	Type-A	Super Low-Loss	1/Box	CKLM4JS224A-BK51
CablingGuard™ MTP - LC Cassette	LC/UPC OM4 BI	12	24	2	Type-C	Super Low-Loss	1/Box	CKLMSJS224C-BK51
CablingGuard™ MTP - LC Cassette	LC/UPC OM4 BI	12	24	2	Type-A	Super Low-Loss	1/Box	CKLMSJS224A-BK51
CablingGuard™ MTP - LC Cassette	LC/UPC OS2	12	24	2	Type-C	Super Low-Loss	1/Box	CKLS2JS224C-BK51
CablingGuard™ MTP - LC Cassette	LC/UPC OS2	12	24	2	Type-A	Super Low-Loss	1/Box	CKLS2JS224A-BK51
CablingGuard™ MTP - LC Cassette	LC/UPC G.657.A2	12	24	2	Type-C	Super Low-Loss	1/Box	CKLA2JS224C-BK51
CablingGuard™ MTP - LC Cassette	LC/UPC G.657.A2	12	24	2	Type-A	Super Low-Loss	1/Box	CKLA2JS224A-BK51

BI = Bend-Insensitive

Assemblies max. connection loss:

Low-Loss < 0.5dB max. Super Low-Loss < 0.35dB max.

#### Ordering Information - LED Modules

Description	Color	P/N
CablingGuard™ LED Module for Smart MTP - LC Cassette	Green	CLDMTPLCC0N-GN
CablingGuard™ LED Module for Smart MTP - LC Cassette	Red	CLDMTPLCC0N-RD
CablingGuard™ LED Module for Smart MTP - LC Cassette	Blue	CLDMTPLCC0N-BL

Continued on page G.4.1b

## AT&T CablingGuard™

Fiber Optic Smart Ready / Smart Pre-terminated Patch Panel (contd.)

### Ordering Information - MTP-SC Cassettes

Description	Front Couplers	Coupler Capacity	Fiber Capacity	MTP Ports	TIA-568-C.3 Polarity	Total Loss Option	Packaging	P/N
CablingGuard™ MTP - SC Cassette	SC/UPC OM3	6	12	1	Type-C	Low-Loss	1/Box	CKSM3JH112C-BK51
CablingGuard™ MTP - SC Cassette	SC/UPC OM3	6	12	1	Type-A	Low-Loss	1/Box	CKSM3JH112A-BK51
CablingGuard™ MTP - SC Cassette	SC/UPC OM3 BI	6	12	1	Type-C	Low-Loss	1/Box	CKSMBJH112C-BK51
CablingGuard™ MTP - SC Cassette	SC/UPC OM3 BI	6	12	1	Type-A	Low-Loss	1/Box	CKSMBJH112A-BK51
CablingGuard™ MTP - SC Cassette	SC/UPC OM4	6	12	1	Type-C	Low-Loss	1/Box	CKSM4JH112C-BK51
CablingGuard™ MTP - SC Cassette	SC/UPC OM4	6	12	1	Type-A	Low-Loss	1/Box	CKSM4JH112A-BK51
CablingGuard™ MTP - SC Cassette	SC/UPC OM4 BI	6	12	1	Type-C	Low-Loss	1/Box	CKSMSJH112C-BK51
CablingGuard™ MTP - SC Cassette	SC/UPC OM4 BI	6	12	1	Type-A	Low-Loss	1/Box	CKSMSJH112A-BK51
CablingGuard™ MTP - SC Cassette	SC/UPC OS2	6	12	1	Type-C	Low-Loss	1/Box	CKSS2JH112C-BK51
CablingGuard™ MTP - SC Cassette	SC/UPC OS2	6	12	1	Type-A	Low-Loss	1/Box	CKSS2JH112A-BK51
CablingGuard™ MTP - SC Cassette	SC/UPC G.657.A2	6	12	1	Type-C	Low-Loss	1/Box	CKSA2JH112C-BK51
CablingGuard™ MTP - SC Cassette	SC/UPC G.657.A2	6	12	1	Type-A	Low-Loss	1/Box	CKSA2JH112A-BK51
CablingGuard™ MTP - SC Cassette	SC/UPC OM3	6	12	1	Type-C	Super Low-Loss	1/Box	CKSM3JS112C-BK51
CablingGuard™ MTP - SC Cassette	SC/UPC OM3	6	12	1	Type-A	Super Low-Loss	1/Box	CKSM3JS112A-BK51
CablingGuard™ MTP - SC Cassette	SC/UPC OM3 BI	6	12	1	Type-C	Super Low-Loss	1/Box	CKSMBJS112C-BK51
CablingGuard™ MTP - SC Cassette	SC/UPC OM3 BI	6	12	1	Type-A	Super Low-Loss	1/Box	CKSMBJS112A-BK51
CablingGuard™ MTP - SC Cassette	SC/UPC OM4	6	12	1	Type-C	Super Low-Loss	1/Box	CKSM4JS112C-BK51
CablingGuard™ MTP - SC Cassette	SC/UPC OM4	6	12	1	Type-A	Super Low-Loss	1/Box	CKSM4JS112A-BK51
CablingGuard™ MTP - SC Cassette	SC/UPC OM4 BI	6	12	1	Type-C	Super Low-Loss	1/Box	CKSMSJS112C-BK51
CablingGuard™ MTP - SC Cassette	SC/UPC OM4 BI	6	12	1	Type-A	Super Low-Loss	1/Box	CKSMSJS112A-BK51
CablingGuard™ MTP - SC Cassette	SC/UPC OS2	6	12	1	Type-C	Super Low-Loss	1/Box	CKSS2JS112C-BK51
CablingGuard™ MTP - SC Cassette	SC/UPC OS2	6	12	1	Type-A	Super Low-Loss	1/Box	CKSS2JS112A-BK51
CablingGuard™ MTP - SC Cassette	SC/UPC G.657.A2	6	12	1	Type-C	Super Low-Loss	1/Box	CKSA2JS112C-BK51
CablingGuard™ MTP - SC Cassette	SC/UPC G.657.A2	6	12	1	Type-A	Super Low-Loss	1/Box	CKSA2JS112A-BK51

BI = Bend-Insensitive  
 Assemblies max. connection loss:  
 Low-Loss < 0.5dB max. Super Low-Loss < 0.35dB max.

### Ordering Information - LED Modules

Description	Color	P/N
CablingGuard™ LED Module for Smart MTP - SC Cassette	Green	CLDMTPSCC0N-GN
CablingGuard™ LED Module for Smart MTP - SC Cassette	Red	CLDMTPSCC0N-RD
CablingGuard™ LED Module for Smart MTP - SC Cassette	Blue	CLDMTPSCC0N-BL

# AT&T CablingGuard™

## Fiber Optic Smart Ready / Smart Standard Patch Panel

CablingGuard™ FO Patch Panels are used within the CablingGuard™ System. Each 1U Patch Panel has one data bus connection port located on the rear of the panel. The data bus connection port connects the panel to the The CablingGuard™ Infrastructure Analyzer via a standard RJ45 patch cord.

The patch panel is used by the The CablingGuard™ system to track connectivity in the patch zone and work area. LED status indicators on the panel show status of connectivity between the panel and the Infrastructure Analyzer and also provide panel guidance for work orders.

The adapter interface can contains 24 duplex LC ports (48F) or 24 duplex SC ports (48F) terminations with Singlemode or Multimode options. The patch panel works as a conventional patch panel when not connected to the the CablingGuard™ system. CablingGuard™ patch panels fully conform to and provide a substantial margin above all ANSI/TIA-568-C.3 and ISO/IEC-11801 (2nd Edition) FO component requirements.

The CablingGuard™ Logo and the DataLight Trademark ensure long lasting high-performance and full support of most present applications.

- *Two power status indicators to ensure proper connection of power supply from the Infrastructure Analyzer.*
- *Data bus connection to the CablingGuard™ Infrastructure Analyzer done with an industry standard RJ45 patch cord.*
- *Panel options for Singlemode and Multimode fibers, including OS1, OS2 and OM1, OM2, OM3 or OM4*
- *International hardware kit contains both ANSI and metric hardware.*
- *Robust and installer-friendly design - providing reduced installation and operating costs.*
- *LED status indicators show status of connectivity between the panel and the Infrastructure Analyzer.*
- *LED status indicator on the panel calls for operator action (connect/disconnect patch-cord).*
- *LED status indicators on each port calls for operator action (connect/disconnect patch-cord).*
- *LED status indicators can be activated and deactivated from a remote location by the network supervisor.*
- *Port use indication on each port calls for monitoring connectivity (connect/disconnect patch-cord).*
- *The smart patch panel support up to four (4) LED modules in different colors.*

## AT&T CablingGuard™

### Smart Ready / Smart Standard 19" Fiber Optic Patch Panel

#### Description

CablingGuard™ Smart Ready / Smart 1-48 fiber 1U fixed 19" fiber optic splicing/distribution panels	
Connector type compatibility	SC & LC
Distribution	Up to 48 SC or 48 LC fiber direct cable termination
Panel access	Top and front sliding tray
Back Cable Management	None
Front Cable Management	None

#### Standard & EU Directives Conformance

- Relevant sections of ANSI/TIA/EIA-604 (FOCIS)
- Relevant sections of IEC 60874
- Relevant sections of IEC 61753
- Relevant sections of IEC 61754
- Plastic parts: UL94 V-0 flame test
- EU Directive 2011/65/EU (RoHS-2)

#### Mechanical Properties

Frame	SPCC Steel, colored black
Front cover	None
Operating temperature	-10 to +60C at 5-85% RH (non condensing)
Storage temperature	-40 to +70C
Plastic parts	High-impact flame retardant materials
Port identification	Numbers and designated space printed on the cover

#### Ordering Information - Panel

Description	Compatible Couplers	Coupler Capacity	Fiber Capacity	Dimensions mm	P/N
CablingGuard™ Smart Ready Standard FO Patch Panel	SC Duplex	12	24	482.6x44x162	CPFSR12SC24-BK1U
CablingGuard™ Smart Ready Standard FO Patch Panel	SC Duplex	24	48	482.6x44x162	CPFSR24SC48-BK1U
CablingGuard™ Smart Ready Standard FO Patch Panel	LC Duplex	12	24	482.6x44x162	CPFSR12LC24-BK1U
CablingGuard™ Smart Ready Standard FO Patch Panel	LC Duplex	24	48	482.6x44x162	CPFSR24LC48-BK1U

#### Ordering Information - Smart Card

Description	Size	Dimensions mm	Color	P/N
CablingGuard™ FL2 Smart Card for Smart Ready Standard FO Patch Panel	1U	42x62x22	Red	CRSFPFL201N

#### Ordering Information - LED Modules

Description	Color	P/N
CablingGuard™ LED Module for Smart Standard FO Patch Panel	Green	CLDSFOPP0N-GN
CablingGuard™ LED Module for Smart Standard FO Patch Panel	Red	CLDSFOPP0N-RD
CablingGuard™ LED Module for Smart Standard FO Patch Panel	Blue	CLDSFOPP0N-BL

# AT&T CablingGuard™

## Smart Card

The CablingGuard™ Smart Card enables CablingGuard™ Smart Ready panels to sense adds, moves, and changes across all 24 ports on the panel. The Smart Card contains LED's to provide guidance for work orders on CablingGuard™ panels. Smart Cards can be easily added to CablingGuard™ ready panels to activate full CablingGuard™ capabilities. The Smart Card contains an RJ45 jack to connect it to the CablingGuard™ Infrastructure Analyzer via a standard patch cord. CablingGuard™ Panels with Smart Cards that are not connected to a CablingGuard™ Infrastructure Analyzer function the same as a standard patch panel.

- *CablingGuard™ Smart Cards provide intelligent management for CablingGuard™ Smart panels*
- *CablingGuard™ Smart Cards are easily added and removed from any CablingGuard™ Smart panel*
- *LED's supply guidance for work orders and panel status*
- *CablingGuard™ Smart Cards are powered by the Infrastructure Analyzer*

## AT&T CablingGuard™

### Smart Card

#### Description

Smart Card for CablingGuard Smart Ready Panels	
Smart Ready Panel Compatibility	Cat5e, Cat6 or Cat6A Pre-terminated FO Patch Panels Standard FO Patch Panels
Connectivity	RJ45 Jack 52-pins Edge Connector
Color	Red.

#### Standard & EU Directives Conformance

- FCC Subpart F 68.5 Compliant

#### Approvals & Pending Approvals

- UL 1863
- CSA 22.2

#### Mechanical Properties

Material	Red Cover is made of plastic (non metal)
Thickness	1.52 mm
Power Requirements	Connection to CablingGuard™ Infrastructure Analyzer
Operating Life	Minimum 50 insertions
Contact Plating	1.25µm Gold

#### Temperature Rating

Installation	0°C - 50°C
Operation	0°C - 50°C
Storage	-20°C - 60°C



#### Ordering Information - Smart Card

Description	Size	Dimensions mm	Color	P/N
CablingGuard™ CL2 Smart Card for Smart Ready Copper Patch Panel	1U	42x62x22	Red	CRSCPCL201N
CablingGuard™ FL2 Smart Card for Smart Ready FO Patch Panels	1U	42x62x22	Red	CRSFPFL201N

# AT&T CablingGuard™

## 576 Channel Infrastructure Analyzer

CablingGuard™ Infrastructure Analyzers monitor activity on a CablingGuard™ enabled system. Each 1U Infrastructure Analyzer can be connected to up to 48 patch panels providing monitoring of up to 576 separate physical channels. Standard RJ45 patch cords are used as the data bus connection between Infrastructure Analyzers and smart patch panels

CablingGuard™ Infrastructure Analyzers can be configured and activated independently of the software. When the CablingGuard™ application software is connected to the Infrastructure Analyzer, the Infrastructure Analyzer “discovers” active hardware and devices on the network and uploads this information onto the CablingGuard™ application software. Infrastructure Analyzers monitor the connection state of CablingGuard™ channels and pass state change data to the CablingGuard™ application software. This triggers CablingGuard™’s smart polling function which queries the specific outlet and updates the software. In the event that the CablingGuard™ application cannot communicate with a Infrastructure Analyzer, the Infrastructure Analyzer records transactions in a queue for later delivery to the CablingGuard™ software.

Infrastructure Analyzers recover from power outages without requiring reconfiguration. CablingGuard™ Infrastructure Analyzers consume little power, which can be critical in power-hungry environments such as Data Centers.

- *Support up to 48 patch panels, 576 cross-connect or 1152 interconnect separate physical channels*
- *Smart polling enables continuous updating of CablingGuard™ with minimal impact to the network.*
- *Simple Infrastructure Analyzer configuration*
- *Auto discovery of active hardware/devices & automatic database population*
- *Mission critical port disconnection alerts*
- *Trace to device location*
- *High density Infrastructure Analyzer enables rack space to be maximized*
- *Low power consumption with no specific fans or cooling required*
- *Automatic Rediscovery/Re-synchronization after power outage or system failure*
- *Transaction queues record events for later delivery if the Infrastructure Analyzer is disconnected from the CablingGuard™ application.*
- *Infrastructure Analyzer can be tested and activated independently of software activation*
- *Data bus connection between the Infrastructure Analyzer and patch panel is via an industry standard RJ45 patch cord*
- *Integral cable management shelf ensures bend radius compliance.*

## AT&T CablingGuard™

### 576 Channel Infrastructure Analyzer

#### Description

576 Channel Infrastructure Analyzer	
Material of construction	CRS (cold rolled steel) 1.52 mm thickness.
Coating and color	Black powder coated finish
Storage conditions	-10 to 60°C, 10 to 95% Relative Humidity non-condensing
Installation and operation conditions	0 to 50°C, 15-90% Relative Humidity non-condensing
Packaging	One unit per box.
Shipping weight	4 Kg

#### Standard Conformance

- HTTP
- SNMP (read-only)
- EN-55022, Class B (Europe)
- FCC Part 15, Class B (USA)
- UL 1950
- IEC 60950
- CSA 950

#### Electrical Properties Properties

Max. power consumption	20 Watts
Universal AC input	110-240VAC, 50-60Hz
Heat generated	68 BTU/Hour
Insulation Resistance	100 MegaOhm min @ 500 Vdc



#### Accessories

- Each Infrastructure Analyzer is supplied with one International 19-inch mounting kit.
- A standard IEC 60320 power cord (comprising a power plug and C13 Plug/outlet) is required but not included.

#### Ordering Information

Description	Size	Color	Packaging	P/N
CablingGuard™ 576 Channel Infrastructure Analyzer	1U	Black	1/Box	CSS00JV576N-BK1U

# AT&T CablingGuard™

## 96 Channel Infrastructure Analyzer

CablingGuard™ Infrastructure Analyzers monitor activity on a CablingGuard™ enabled system. Each 1U Infrastructure Analyzer can be connected to up to 8 patch panels providing monitoring of up to 96 separate physical channels. Standard RJ45 patch cords are used as the data bus connection between Infrastructure Analyzers and smart patch panels. CablingGuard™ Infrastructure Analyzers can be configured and activated independently of the software. When the CablingGuard™ application software is connected to the Infrastructure Analyzer, the Infrastructure Analyzer “discovers” active hardware and devices on the network and uploads this information onto the CablingGuard™ application software. Infrastructure Analyzers monitor the connection state of CablingGuard™ channels and pass state change data to the CablingGuard™ application software. This triggers CablingGuard™’s smart polling function which queries the specific outlet and updates the software. In the event that the CablingGuard™ application cannot communicate with a Infrastructure Analyzer, the Infrastructure Analyzer records transactions in a queue for later delivery to the CablingGuard™ software.

Infrastructure Analyzers recover from power outages without requiring reconfiguration. CablingGuard™ Infrastructure Analyzers consume little power, which can be critical in power-hungry environments such as Data Centers.

- Support up to 8 patch panels, 96 cross-connect or 192 interconnect separate physical channels.
- Front panel LCD with five navigation buttons displays the Infrastructure Analyzer statuses of operations.
- Power status LED on each panel port indicates connection and communication with the CablingGuard™ patch panel.
- LED status indicators on each panel port calls for operator action (connect/disconnect patch panel).
- LED status indicators can be activated and deactivated from a remote location by the network supervisor.
- Smart polling enables continuous updating of CablingGuard™ with minimal impact to the network.
- Simple Infrastructure Analyzer configuration
- Auto discovery of active hardware/devices & automatic database population
- Mission critical port disconnection alerts
- Trace to device location
- High density Infrastructure Analyzer enables rack space to be maximized
- Low power consumption with no specific fans or cooling required
- Automatic Rediscovery/Re-synchronization after power outage or system failure
- Transaction queues record events for later delivery if the Infrastructure Analyzer is disconnected from the CablingGuard™ application.
- Infrastructure Analyzer can be tested and activated independently of software activation
- Data bus connection between the Infrastructure Analyzer and patch panel is via an industry standard RJ45 patch cord

## AT&T CablingGuard™

### 96 Channel Infrastructure Analyzer

#### Description

96 Channel Infrastructure Analyzer	
Material of construction	CRS (cold rolled steel) 1.52 mm thickness.
Coating and color	Black powder coated finish
Storage conditions	-10 to 60°C, 10 to 95% Relative Humidity non-condensing
Installation and operation conditions	0 to 50°C, 15-90% Relative Humidity non-condensing
Packaging	One unit per box.
Shipping weight	2 Kg

#### Standard Conformance

- HTTP
- SNMP (read-only)
- EN-55022, Class B (Europe)
- FCC Part 15, Class B (USA)
- UL 1950
- IEC 60950
- CSA 950

#### Electrical Properties Properties

Max. power consumption	10 Watts
Universal AC input	110-240VAC, 50-60Hz
Heat generated	34 BTU/Hour
Insulation Resistance	100 MegaOhm min @ 500 Vdc



#### Accessories

- A standard IEC 60320 power cord (comprising a power plug and C13 Plug/outlet) is required but not included.

#### Ordering Information

Description	Size	Color	Packaging	P/N
CablingGuard™ 96 Channel Infrastructure Analyzer	1U	Black	1/Box	CSS00JV096N-BK1U

# AT&T CablingGuard™

## Application Software

**CablingGuard™ Software** is the central data manager for the CablingGuard™ system. It manages OSI Layer 1 infrastructure elements and provides instantaneous information to the IT Manager about connectivity on CablingGuard™ enabled channels. The software documents planned work orders and detects unplanned (ad hoc) changes to the network. It allows continuous monitoring of the complete physical channel from work area outlet to the active network device. CablingGuard™ software automatically monitors all connections and disconnections, identifies and confirms port availability and notifies the IT Manager of all unscheduled or unauthorized network cabling changes. All moves, adds, and changes (MACs) detected on the network are automatically updated in the database. CablingGuard™ software is a web based application that enables global network access by an unlimited number of users and provides cost effective and accurate network management. CablingGuard™ Reports allow the IT team to extract information contained in the CablingGuard™ system about the Layer 1 infrastructure and the assets connected to the infrastructure. Reports include information about assets, work orders, logs, MACs, and connectivity status of CablingGuard™ enabled channels.

The CablingGuard™ application software support two modes of operations, Online mode and Offline mode. In Online mode the CablingGuard™ application software communicates with the CablingGuard™ hardware system, communicates with the CablingGuard™ Infrastructure Analyzers and communicates with the CablingGuard™ smart panels. In Offline mode the CablingGuard™ application software works as a standalone software free of the CablingGuard™ hardware system.

**CablingGuard™ 48 Managed Ports Software Licences** are used to enable activation of CablingGuard™ panels on CablingGuard™ Infrastructure Analyzers. Channel licenses are installed on the CablingGuard™ server. Each 48 Managed Ports licence activates two Infrastructure Analyzer ports. 48 Managed Ports licences are ideal for low density environments where the entire channel capacity of a Infrastructure Analyzer is not required. Multiple 48 Managed Ports licences may be installed on a Infrastructure Analyzer to provide a solution matching the number of channels served by a Infrastructure Analyzer. 48 Managed Ports licenses can be added incrementally as additional channels are connected to the Infrastructure Analyzer. Each Infrastructure Analyzer may have up to twelve 48 Managed Ports licenses installed on it. 48 Managed Ports licences may be added to a Infrastructure Analyzer at any time.

## AT&T CablingGuard™

### Application Software

#### Description

CablingGuard™ Software is designed for Windows 32 bit and 64 bit environments and requires a TCP/IP network.

The following system requirements are recommended:

#### Server\*:

Supported Operating Systems: Windows Server 2008

Windows Server 2008 R2

Server should meet Microsoft's recommended requirements

#### Database\*:

Microsoft SQL Server Express 2008

Microsoft SQL Server Express 2008 R2

#### Browser Support\*:

Microsoft Internet Explorer Version 7.0 or higher

Firefox Version 3.2 or higher

Recommended screen resolution of 1200 x 800 or better

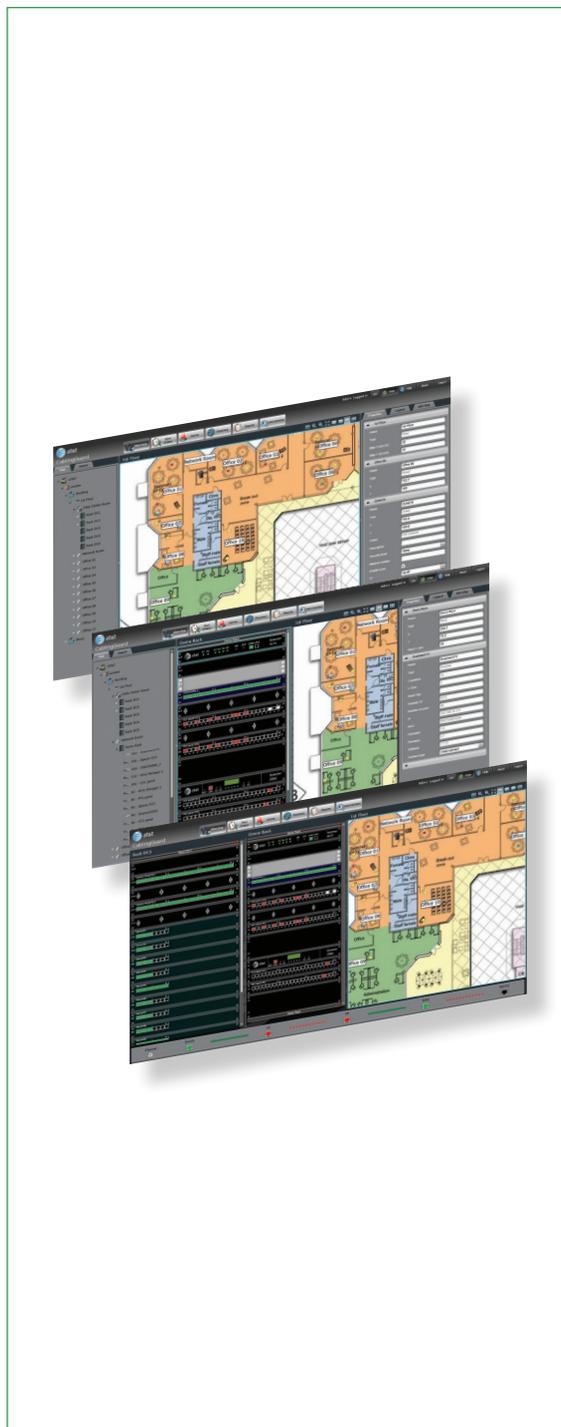
Microsoft Silverlight is required on the web browsing device.

One year technical support provided with initial software purchase (can be renewed on an annual basis).

\* AT&T Cabling Systems recommends Windows Server 2008 R2 and SQL Server Express 2008 R2.

#### Benefits & Features

- Hierarchical view of entire enterprise layer 1 infrastructure
- Monitoring of all connections/disconnections
- Drag and drop work orders
- Work orders for end devices and wire closet patches
- Guided patching
- Search feature to easily locate assets and information
- Event logs for audit trails
- Assets linkage to building maps
- Enhanced graphics and mapping features, including Zoom, Pan, Scaling & Mini-map.
- Tracing feature across all channel elements
- Unrestricted number of users per license
- Data import and export capability
- Layer 2 and layer 3 assets Auto Discovery
- Support Online and Offline modes of operation.
- Multi language support.
- HTML Help File.



#### Ordering Information

Description	P/N
CablingGuard™ Server Application Software	CFG4S0Y0ASN
CablingGuard™ Server Application Software - 1 Year Maintenance	CFG4S1Y0ASN
CablingGuard™ 48 Managed Ports Software License	CFG4S0Y048N
CablingGuard™ 48 Managed Ports Software License - 1 Year Maintenance	CFG4S1Y048N
CablingGuard™ Unlimited Managed Ports Software License	CFG4S0YUASN
CablingGuard™ Unlimited Managed Ports Software License - 1 Year Maintenance	CFG4S1YUASN

## AT&T CablingGuard™

Application Software - Offline

### Description

CablingGuard™ Software is designed for Windows 32 bit and 64 bit environments and requires a TCP/IP network.

The following system requirements are recommended:

#### Server\*:

Supported Operating Systems: Windows Server 2008  
Windows Server 2008 R2

Server should meet Microsoft's recommended requirements

#### Database\*:

Microsoft SQL Server Express 2008  
Microsoft SQL Server Express 2008 R2

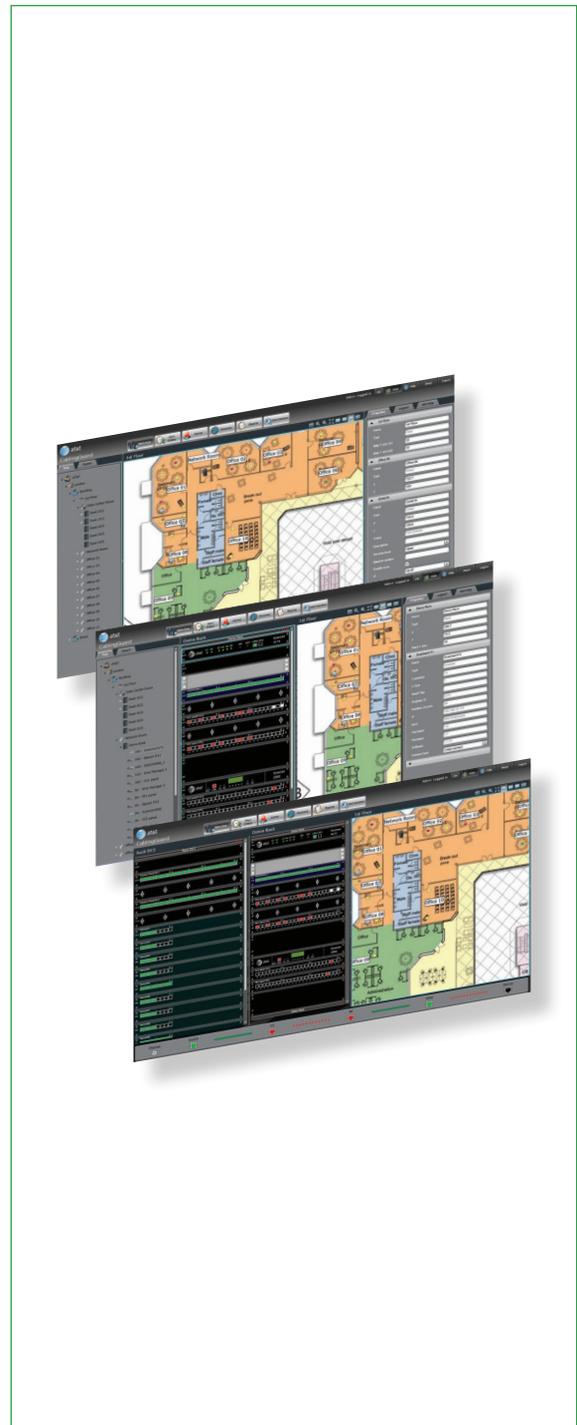
#### Browser Support\*:

Microsoft Internet Explorer Version 7.0 or higher  
Firefox Version 3.2 or higher  
Recommended screen resolution of 1200 x 800 or better  
Microsoft Silverlight is required on the web browsing device.  
One year technical support provided with initial software purchase (can be renewed on an annual basis).

\* AT&T Cabling Systems recommends Windows Server 2008 R2 and SQL Server Express 2008 R2.

### Benefits & Features

- Hierarchical view of entire enterprise layer 1 infrastructure
- Monitoring of all connections/disconnections
- Drag and drop work orders
- Work orders for end devices and wire closet patches
- Guided patching
- Search feature to easily locate assets and information
- Event logs for audit trails
- Assets linkage to building maps
- Enhanced graphics and mapping features, including Zoom, Pan, Scaling & Mini-map.
- Tracing feature across all channel elements
- Unrestricted number of users per license
- Data import and export capability
- Layer 2 and layer 3 assets Auto Discovery
- Support Online and Offline modes of operation.
- Multi language support.
- HTML Help File.



### Ordering Information

Description	P/N
CablingGuard™ Server Application Software - Offline	CFG4S0Y0ASF
CablingGuard™ Server Application Software - 1 Year Maintenance - Offline	CFG4S1Y0ASF
CablingGuard™ 48 Managed Ports Software License - Offline	CFG4S0Y048F
CablingGuard™ 48 Managed Ports Software License - 1 Year Maintenance - Offline	CFG4S1Y048F
CablingGuard™ Unlimited Managed Ports Software License- Offline	CFG4S0YUASF
CablingGuard™ Unlimited Managed Ports Software License - 1 Year Maintenance- Offline	CFG4S1YUASF

## AT&T CablingGuard™

### Dashboard Software

#### Description

The CablingGuard™ Dashboard Software is a manager application. The CablingGuard™ Dashboard Software presents data from a single or multiple CablingGuard™ Applications. The CablingGuard™ Dashboard Software is designed for Windows 32 bit and 64 bit environments and requires a TCP/IP network.

#### Server\*:

Supported Operating Systems: Windows Server 2008  
Windows Server 2008 R2  
Server should meet Microsoft's recommended requirements

#### Browser Support\*:

Microsoft Internet Explorer Version 7.0 or higher  
Firefox Version 3.2 or higher  
Recommended screen resolution of 1200 x 800 or better  
Microsoft Silverlight is required on the web browsing device.  
One year technical support provided with initial software purchase (can be renewed on an annual basis).

\* AT&T Cabling Systems recommends Windows Server 2008 R2

#### Benefits & Features

- Single and Multiple servers support.
- Multiple layout options for graph view.
- Hierarchal view of servers and graphs.
- Single and Double servers graph view.
- Configurable Toggling view.
- Server/Site alarm view.
- Enhanced graph view, including Zoom, Pan, Scaling.
- Enhanced map view, including Zoom, Pan, Scaling.
- Search feature to easily locate assets and information.
- Pie/Line/Counter/Bar graph view.
- Drag and drop graphs template.
- Table view of graphs template.
- Support Line graph threshold for alarm generation.
- Graph linkage to server/site.
- Unrestricted number of users per license.
- Multi language support.
- HTML Help File.



#### Ordering Information

Description	P/N
CablingGuard™ Dashboard Application Software 1 Server Support	CFG4S1SSDBN
CablingGuard™ Dashboard Application Software 1 Server Support - 1 Year Maintenance	CFG4S1YSDBN





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