Product Catalog 2020

CenterLine

AT&T Cabling Data Center Solutions

AT&T Cabling Systems



AT&T Cabling Systems Part C

CenterLine[™]

AT&T Cabling Data Center Solutions







DCE Server Racks

AT&T Cabling Systems DCE Server Racks are designed to meet your present and future Data Center infrastructure needs. The light, stable and modular aluminum frame of AT&T Cabling Systems DCE Racks, allowing 1500 kg static load capacity per rack, provides stability, security, easy transport and fast accessibility.

DCE Server Racks are available in 600 and 800 mm width and in 42U & 47U height options, allowing data center designers to select the optimal rack size for any application.



Simply Impressive

- Large space for power supply and cabling components
- Structural stability combined with low weight
- Better variability with step-less depth adjustable air containment

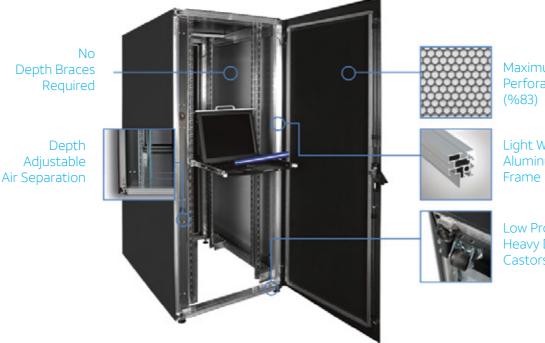


AT&T Cabling Systems DCE Server Racks provide orderly and space saving cable management, adjustment to installation site and an extensive range of cable management accessories and components.

PDUs and cable managements can also be housed in the space between the 19" profiles and the side panel, eliminating the need for depth braces. The high-density of perforation provides improved airflow.

Depth-adjustable air separation cold/warm separation seals on the side panels with vertical extrusions enable fast and easy adjustments.

AT&T Cabling Systems DCE Server Racks Features & Benefits



Maximum Perforation

Light Weight Aluminum





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DCE Free Standing Data Center Server Cabinets Description

Heavy duty free standing 19" server cabinets for data centersConstruction materialExtruded aluminumSize options42U and 47UColor optionsDark Gray RAL 7021Width and depth options600x1000mm, 600x1200mm,

Accessories Cooling Containment Extruded aluminum 42U and 47U Dark Gray RAL 7021 600x1000mm, 600x1200mm, 800x1000 mm or 800x1200 mm Page C.1.7 Suitable for cold and hot corridors

Standard & EU Directives Conformance

- Mechanical structure conforming to EN 61587-1, EN 60297-3-100
- Vibration & shock tests according to IEC 60068-2, EN 300019-1-2 class2.3.
- Corrosion resistance (salt spray) acc. to EN 62208
- IP20 according to DIN EN 60529
- Equipotential bonding & grounding according to DIN EN 60950-1, IEC 60950-1

1500 kg max.

• EU Directive 2011/65/EU (RoHS-2)



Mechanical Properties

Static load capacity Front door Rear door Side panels Profiles Cable entries Optional cable management Mounting

Electrical grounding Cabinet row formation Locking options Detachable, single, 83% perforated, Tool-Less Detachable, double, 83% perforated, Tool-Less Detachable, single, quick connectors 4 pcs 19" server extrusions, sheet steel, U marking Top & bottom multiple cable entries Front and rear vertical cable management Overhead cable management (in row) Normal floor or raised floor

Optional raised floor and/or ceiling fixing kit Optional floor and/or ceiling shock absorbers Internal parts and frame grounding kit Aligning baying kit Standard: Prepared for Cylinder lock Optional: Electronic key-access with managed locking system

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DCE Free Standing Data Center Server Cabinets (contd.)

Ordering Information

Description	Size	Dimensions mm	Color	P/N
DCE Free standing 19" Data Center Server Cabinet with side panels	42U	600x1000	Dark Gray	E116100042A-GY51
DCE Free standing 19" Data Center Server Cabinet without side panels	42U	600x1000	Dark Gray	E116100042B-GY51
DCE Free standing 19" Data Center Server Cabinet with side panels	42U	600x1200	Dark Gray	E116120042A-GY51
DCE Free standing 19" Data Center Server Cabinet without side panels	42U	600x1200	Dark Gray	E116120042B-GE51
DCE Free standing 19" Data Center Server Cabinet with side panels	42U	800x1000	Dark Gray	E118100042A-GE51
DCE Free standing 19" Data Center Server Cabinet without side panels	42U	800x1000	Dark Gray	E118100042B-GE51
DCE Free standing 19" Data Center Server Cabinet with side panels	42U	800x1200	Dark Gray	E118120042A-GE51
DCE Free standing 19" Data Center Server Cabinet without side panels	42U	800x1200	Dark Gray	E118120042B-GE51
DCE Free standing 19" Data Center Server Cabinet with side panels	47U	600x1000	Dark Gray	E116100047A-GE51
DCE Free standing 19" Data Center Server Cabinet without side panels	47U	600x1000	Dark Gray	E116100047B-GE51
DCE Free standing 19" Data Center Server Cabinet with side panels	47U	600x1200	Dark Gray	E116120047A-GE51
DCE Free standing 19" Data Center Server Cabinet without side panels	47U	600x1200	Dark Gray	E116120047B-GE51
DCE Free standing 19" Data Center Server Cabinet with side panels	47U	800x1000	Dark Gray	E118100047A-GE51
DCE Free standing 19" Data Center Server Cabinet without side panels	47U	800x1000	Dark Gray	E118100047B-GE51
DCE Free standing 19" Data Center Server Cabinet with side panels	47U	800x1200	Dark Gray	E118120047A-GE51
DCE Free standing 19" Data Center Server Cabinet without side panels	47U	800×1200	Dark Gray	E118120047B-GE51



RCE Network & Server Racks

AT&T Cabling Systems RCE Network Racks provide the full flexibility needed in a network cabinet. The light and stable modular aluminum structure enables fast and simple rack configuration to any customer needs.

RCE network racks are available in free standing constructions in 800mm width, 800 or 1000mm depth and 41U, 42U & 46U height options, all having up to 500kg static load capacity.







Free Standing Network Racks

Free standing network racks meet the demands for neat cabling, switch and other networking device housing. Front, side and rear spaces provide most efficient cabinet use.



AT&T CenterLine RCE Free Standing Network Cabinets

Description

Free standing 19" network cabinets for IT Rooms and data centersConstruction materialExtruded aluminumSize options41U,42U and 46U(other cizes available)

Color options Width and depth options Accessories Extruded aluminum 41U,42U and 46U (other sizes available) Dark Gray RAL 7021 800x800mm, 800x1000mm. Page C.1.8

Standard & EU Directives Conformance

- Mechanical structure conforming to EN 61587-1, EN 60297-3-100
- Vibration & shock tests according to MIL-STD 810 E, ETS 300 019
- Corrosion resistance (salt spray) acc. to EN 62208
- IP20 according to DIN EN 60529
- UL test 1244
- NEMA 12 standard
- Equipotential bonding & grounding according to DIN EN 60950-1, IEC 60950-1
- EU Directive 2011/65/EU (RoHS-2)



Mechanical Properties

Static load capacity Front door Rear door Side panels Profiles Cable entries Optional cable management Mounting

Electrical grounding Locking options 500 kg max. Single or double glass door Single solid metal door Detachable, single, fast assembly 4 pcs 19" vertical extrusions, sheet steel with mounting holes Top & bottom multiple cable entries Front and rear vertical cable management Overhead cable management (in row) Normal floor or raised floor Optional raised floor and/or ceiling fixing kit Optional floor and/or ceiling shock absorbers Internal parts and frame grounding kit Standard: Prepared for Cylinder lock Optional: Electronic key-access with managed locking system

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RCE Free Standing Network Cabinets (contd.)

Ordering Information

Description	Size	Dimensions mm	Color	P/N
RCE Free Standing Network Cabinets Single Front Glass Door Rear Solid Metal Door	41U	800×800	Dark Gray	F12808S041S-GE
RCE Free Standing Network Cabinets Double Front Glass Door Rear Solid Metal Door	41U	800x800	Dark Gray	F12808D041S-GE
RCE Free Standing Network Cabinets Single Front Glass Door Rear Solid Metal Door	41U	800×1000	Dark Gray	F12810S041S-GE
RCE Free Standing Network Cabinets Double Front Glass Door Rear Solid Metal Door	41U	800x1000	Dark Gray	F12810D041S-GE
RCE Free Standing Network Cabinets Single Front Glass Door Rear Solid Metal Door	42U	800×800	Dark Gray	F12808S042S-GE
RCE Free Standing Network Cabinets Double Front Glass Door Rear Solid Metal Door	42U	800×800	Dark Gray	F12808D042S-GE
RCE Free Standing Network Cabinets Single Front Glass Door Rear Solid Metal Door	42U	800×1000	Dark Gray	F12810S042S-GE
RCE Free Standing Network Cabinets Double Front Glass Door Rear Solid Metal Door	42U	800x1000	Dark Gray	F12810D042S-GE
RCE Free Standing Network Cabinets Single Front Glass Door Rear Solid Metal Door	46U	800×800	Dark Gray	F12808S046S-GE
RCE Free Standing Network Cabinets Double Front Glass Door Rear Solid Metal Door	46U	800x800	Dark Gray	F12808D046S-GE
RCE Free Standing Network Cabinets Single Front Glass Door Rear Solid Metal Door	46U	800×1000	Dark Gray	F12810S046S-GE
RCE Free Standing Network Cabinets Double Front Glass Door Rear Solid Metal Door	46U	800x1000	Dark Gray	F12810D046S-GE



AT&T CenterLine RCE Free Standing Server Cabinets

Description

Free standing 19" server cabinets for IT Rooms and data centersConstruction materialExtruded aluminumSize options41U and 46U

Color options Width and depth options

Accessories Cooling Containment Extruded aluminum 41U and 46U (other sizes available) Dark Gray RAL 7021 600x1000mm, 600x1200mm, 800x1000 mm or 800x1200 mm Page C.1.9 Suitable for cold and hot corridors

Standard & EU Directives Conformance

- Mechanical structure conforming to EN 61587-1, EN 60297-3-100
- Vibration & shock tests according to MIL-STD 810 E
- Corrosion resistance (salt spray) acc. to EN 62208
- IP20 according to DIN EN 60529
- Equipotential bonding & grounding according to DIN EN 60950-1, IEC 60950-1
- EU Directive 2011/65/EU (RoHS-2)



Mechanical Properties

Static load capacity Front door Rear door Side panels Profiles Cable entries Optional cable management Mounting

Electrical grounding Locking options 500 kg max. Detachable, single, 83% perforated Detachable, double, 83% perforated Detachable, single, fast assembly 4 pcs 19" server extrusions, sheet steel Top & bottom multiple cable entries Front and rear vertical cable management Overhead cable management (in row) Normal floor or raised floor Optional raised floor and/or ceiling fixing kit Optional floor and/or ceiling shock absorbers Internal parts and frame grounding kit Standard: Prepared for Cylinder lock Optional: Electronic key-access with managed locking system

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RCE Free Standing Server Cabinets (contd.)

Ordering Information

Description	Size	Dimensions mm	Color	P/N
RCE Free standing 19" Server Cabinet 41U	41U	600x1000	Dark Gray	F116100041A-GE51
RCE Free standing 19" Server Cabinet 41U	41U	600x1200	Dark Gray	F116120041A-GE51
RCE Free standing 19" Server Cabinet 41U	41U	800x1000	Dark Gray	F118100041A-GE51
RCE Free standing 19" Server Cabinet 41U	41U	800x1200	Dark Gray	F118120041A-GE51
RCE Free standing 19" Server Cabinet 46U	46U	600x1000	Dark Gray	F116100046A-GE51
RCE Free standing 19" Server Cabinet 46U	46U	600x1200	Dark Gray	F116120046A-GE51
RCE Free standing 19" Server Cabinet 46U	46U	800×1000	Dark Gray	F118100046A-GE51
RCE Free standing 19" Server Cabinet 46U	46U	800x1200	Dark Gray	F118120046A-GE51



DCE & RCE Cooling Containment Systems

DCE & RCE Rack Cooling Containment Systems provide complete Data Center cooling containment systems for both hot & cold corridors.

DCE & RCE Rack Cooling Containment Systems include electric sliding or automatic closing doors, top covers as roof element, vertical adjustment blank filler panels and other accessories providing a perfect cooling containment system.

Electric Closing Sliding Doors improve energy efficiency as doors are closed automatically. Doors open with "push & go" and close with "push & go" or automatically (within 0 ... 30 seconds). Open/Close contact is also available (e.g. fire alarm system).

Double doors with automatic closing system are suitable for both DCE & RCE racks and for most racks of other manufacturers. Integrated automatic mechanical door closer provides 180° opening angle.







AT&T Cabling Systems top covers provide quick and easy mounting and are suitable for DCE and RCE racks as well as racks from most other brands. Rubber sleeves can be used for cable routing. Roof panels are made with low fire load and low smoke materials, optionally with safety glass. AT&T Cabling Systems top covers are available for AT&T Cabling Systems Sensor Boxes providing energy-efficient operation of the circulated-air cooling devices and for hot spot prevention.



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DCE & RCE Rack Cooling Containment Systems
Description

Data center cooling containment systems for cold corridors Top cover construction material Angular extrusion, cross

Containment doors construction material brace: sheet steel Roof panel: Polycarbonate, UL 94-VO/DIN 4102 B1 Door elements: sheet steel Windows: single safety glass panel Brush strips: polyamide (UL94 HF-1) Sliding (Electric & Automatic) Double (Automatic) Dark Gray RAL 7021

Containment doors closing options

Color

Standard & EU Directives Conformance

- Suitable for DCE and RCE Racks and most racks of other manufacturers
- EU Directive 2011/65/EU (RoHS-2)

Optional Dimensions

Containment top cover width options Cold corridor door dimensions 600, 800 mm (Rack) 1200 mm (Aisle)

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DCE & RCE Rack Cooling Containment Systems (contd.)

Ordering Information - Doors

Description	Size	Dimensions mm	Content	P/N
Cold Corridor Containment Door System - Sliding, Electric, Automatic	42U	1200 (Aisle)	Doors: 1 frame structure, 2 doors, 2 floor guides, Covers, Sealing material, Mounting material. Electrical Mechanism: 1 electric drive, 1 cover, Various mounting brackets, Mounting material	E23SDE2042A-GE
Cold Corridor Containment Door System - Sliding, Electric, Automatic	47U	1200 (Aisle)	Doors: 1 frame structure, 2 doors, 2 floor guides, Covers, Sealing material, Mounting material. Electrical Mechanism: 1 electric drive, 1 cover, Various mounting brackets, Mounting material	E23SDE2247A-GE
Cold Corridor Containment Door System - Double, Mechanical	42U	1200 (Aisle)	1 door frame, 2 doors, 3 design covers, 2 door closers, Mounting material.	E23DD02042B-GE
Cold Corridor Containment Door System - Double, Mechanical	47U	1200 (Aisle)	1 door frame, 2 doors, 3 design covers, 2 door closers, Mounting material.	E23DD02247B-GE

Ordering Information - Top Cover

Description	Dimensions mm	Color	P/N
Cold Corridor Containment Top Cover with Sensor Box	600x800	Black	E22TCS0600A-GE
Cold Corridor Containment Top Cover with Sensor Box	800x800	Black	E22TCS0800A-GE

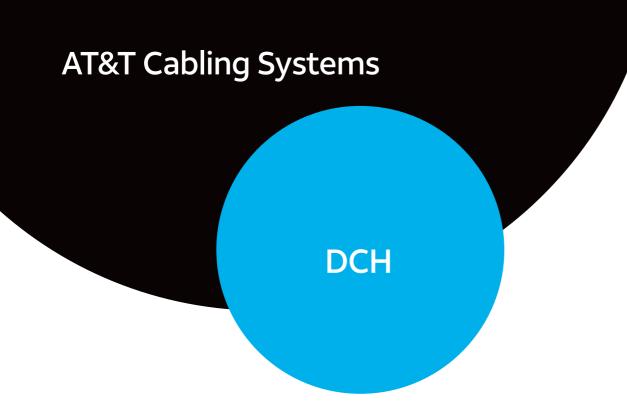
Ordering Information - Vertical Adjustable Blank Filler Panel

Description	Contents	Material	Width (mm)	Height (U)	P/N
Cold Corridor Containment Vertical Adjustable Blank Filler Panel	1 filler panel (two-piece) Mounting material	Sheet Steel	300	42&47U	E22VBP0300A-GE
Cold Corridor Containment Vertical Adjustable Blank Filler Panel	1 filler panel (two-piece) Mounting material	Sheet Steel	600	42&47U	E22VBP0600A-GE
Cold Corridor Containment Vertical Adjustable Blank Filler Panel	1 filler panel (two-piece) Mounting material	Sheet Steel	800	42&47U	E22VBP0800A-GE

Ordering Information - Vertical Adjustable Blank Filler Panel

Description	Contents	Material	Color	P/N
Cold Corridor Containment Top Cover Support Brackets	1 pair of protector brackets Mounting material	Sheet Steel	Dark Gray RAL 7021	E22TCB0002A-GE





AT&T Cabling Systems DCH is an air-water heat exchanger integrated into the rear door of a server rack. The heat exchanger is able to absorb heat loads from server racks of up to 35 kW.

- Compact solution for newly constructed and existing data centers.
- High energy efficiency due to lack of fans.
- Supports cold room concept.
- Enables permanent piping of the water circuit through water-bearing hinges.

Features

- No additional fans required for cooling, lowering the risk of failure.
 - Greater system reliability
 - Fewer sources of failure
 - Minimal heat load on the room
- 35kW cooling.
- Minimal air pressure drop.
- Condensation pipe and collector in the event that the temperature falls below the dew point; removed via 5/8" flexible hose on plug nipple.
- The risk of condensate deposit is reduced by the vertical orientation of the heat-exchanger fins.

Efficiency

- No additional fans for cooling; option to use existing rack structures for minimized investment.
- The compact design provides optimum space utilization, reducing the costs.





Adaptability

- Standard heights of 2,000 and 2,200 mm (41 to 47U).
- Standard widths of 600, 700 and 800 mm.
- Top or bottom chilled water connection (field changeable).
- Combination of AT&T Cabling Systems DCH cooling door with server racks from other manufacturers is possible by incorporating special adapter frames.



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AT&T CenterLine AT&T Cabling Systems DCH

Description

Free standing 19" server cabinets for IT Rooms and data centers, equipped with passive rear-door heat exchanger for up to 35 kW

Construction material Size options Color options Width and depth options

Extruded aluminum 42U and 47U Dark Gray RAL 7021 600x1200mm, 800x1200mm.

Standard & EU Directives Conformance

- Mechanical structure conforming to EN 61587-1, EN 60297-3-100
- Vibration & shock tests according to IEC 60068-2, EN 300019-1-2 class2.3.
- Corrosion resistance (salt spray) acc. to EN 62208
- IP20 according to DIN EN 60529
- Equipotential bonding & grounding according to DIN EN 60950-1, IEC 60950-1
- EU Directive 2011/65/EU (RoHS-2)



Mechanical Properties

Static load capacity Front door Rear door Cable entries Optional cable management Mounting

Electrical grounding Cabinet row formation Locking options

Cooling air side

Housing material Operating ambient temperature Maximum absolute air humidity on site Air outlet temperature (in accordance with ASHARE) Air temperature difference IN - OUT

Detachable, single, 83% perforated, Tool-Less Heat-exchanger for up to 35 kW Top & bottom multiple cable entries Front and rear vertical cable management Overhead cable management (in row) Normal floor or raised floor Optional raised floor and/or ceiling fixing kit Optional floor and/or ceiling shock absorbers Internal parts and frame grounding kit Aligning baying kit Standard: Prepared for Cylinder lock Optional: Electronic key-access with managed locking system

15 K ÷ 20 K

Steel plate (powder coated) 10 °C ÷ 35°C (50 °F – 95 °F) (other temperatures on request) 8 g/kg 18 °C ÷ 27 °C (64.4 °F – 80.6 °F)

1500 kg max.

Chilled water side

Cooling performance Chilled water temperature inlet Chilled water temperature outlet Maximum operating pressure Pipe connection IN / OUT

35 kW 12 °C ÷ 18 °C (53.6 °F – 64.4 °F) (other temperatures on request) 18 °C ÷ 24 °C (64.4 °F – 75.2 °F) (other temperatures on request) 10 bar (145 psi) 1" F (on the frame) (DIN ISO 228 - 1)

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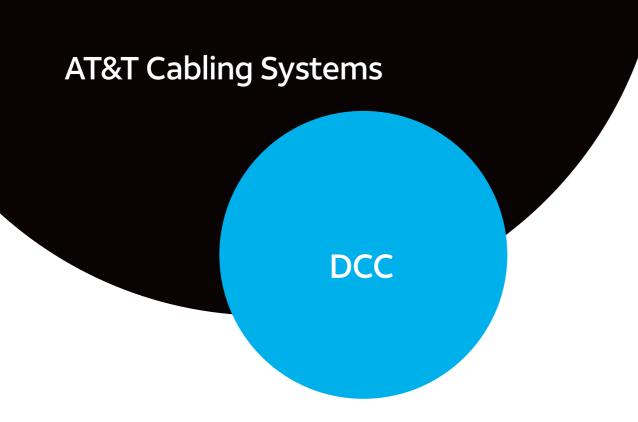
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AT&T Cabling Systems DCH (contd.)

Ordering Information

Description	Size	Dimensions mm	Color	P/N
DCE Server Cabinet with Built-In Cooler	42U	600x1200	Dark Gray	E11WC35642A-GE
DCE Server Cabinet with Built-In Cooler	47U	600x1200	Dark Gray	E11WC35647A-GE
DCE Server Cabinet with Built-In Cooler	42U	800x1200	Dark Gray	E11WC35842A-GE
DCE Server Cabinet with Built-In Cooler	47U	800×1200	Dark Gray	E11WC35847A-GE





AT&T Cabling Systems DCC is a water-cooled high-performance cooling unit for lateral attachment to server cabinets. The next generation of the legendary AT&T Cabling Systems CoolLoop - with optimized essential features.

Modularity

- Two room-neutral architectures for medium to high heat-load density.
- Easy to retrofit on site.
- Multiple combinations of up to four server racks.

Reliability

- N +1 fan redundancy.
- Multi-level "fail-safe" controller.
- Comprehensive alarm and monitoring functions.
- Automatic emergency door opening.

Energy efficiency

- Minimized power consumption through EC fans and dynamic fan control.
- Long free-cooling times thanks to a generously dimensioned heat exchanger.
- Fully contained air flow inside the cabinet or in the cabinet row.
- No heat load, no air flow in the room, efficient noise reduction.
- Complete separation of IT equipment from room, accurately controlled cooling air temperature.
- No special requirements for the room raised floor is not required.
- Row cooling units for use in Smart Aisle cold aisle containment.





Adaptability

Minimum possible investment for cooling components thanks to the option to use up to four server racks for each AT&T Cabling Systems DCC.

Facilitates data-center upgrade through gradual expansion of the data center with no need to invest further in different cooling infrastructure.

Can be adapted to different shapes and spaces

- Heights 2,000 mm and 2,200 mm
- Depths in 100 mm increments from 1,000 mm to 1,300 mm.

Same base unit can be used for aisle cooling concepts and rack cooling with minimum conversion cost.

Simple switchover between 2-way and 3-way valve by means of a ball valve in the bypass line.



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AT&T CenterLine AT&T Cabling Systems DCC

Description

Heavy duty free standing 19" server cabinets for data centers with modular rack cooling.

Construction material Size options Color options Width and depth options Extruded aluminum 42U and 47U Dark Gray RAL 7021 600x1000mm, 600x1200mm, 800x1000 mm or 800x1200 mm Suitable for cold and hot corridors

Cooling Containment

Standard & EU Directives Conformance

- Mechanical structure conforming to EN 61587-1, EN 60297-3-100
- Vibration & shock tests according to IEC 60068-2, EN 300019-1-2 class2.3.
- Corrosion resistance (salt spray) acc. to EN 62208
- IP20 according to DIN EN 60529
- Equipotential bonding & grounding according to DIN EN 60950-1, IEC 60950-1
- EU Directive 2011/65/EU (RoHS-2)

Mechanical Properties - Cabinet

Static load capacity Front door Rear door Side panels Profiles Cable entries Optional cable management Mounting

Electrical grounding

Cabinet row formation Locking options 1500 kg max. Detachable, single, 83% perforated, Tool-Less Detachable, double, 83% perforated, Tool-Less Detachable, single, quick connectors 4 pcs 19" server extrusions, sheet steel, U marking Top & bottom multiple cable entries Front and rear vertical cable management Overhead cable management (in row) Normal floor or raised floor Optional raised floor and/or ceiling fixing kit Optional floor and/or ceiling shock absorbers Internal parts and frame grounding kit Aligning baying kit Standard: Prepared for Cylinder lock Optional: Electronic key-access with managed locking system

Mechanical Properties - Rack Cooling

	DCC 30 KW	DCC 34 KW
Nominal cooling power*	30 kW	34 kW
Air flow	5,000 m3/h	6,000 m3/h
Water flow	4.5 m3/h	5.0 m3/h
Max. water pressure	10 bar (145 PSI)	10 bar (145 PSI)
Number of fans	5	6

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AT&T CenterLine AT&T Cabling Systems DCC (contd.)

Dimensions	DCC 30 KW	DCC 34 KW
Height	2,000 mm	2,200 mm
Width	300 mm	300 mm
Depth	Closed Loop	1,200 mm - 1,300 mm
	Side Cooler	1,000 mm - 1,300 mm

* Sensible cooling, at 16°C / 22°C (61°F / 72°F) water temperature, and 43°C (109°F) air inlet temperature

Ordering Information - Closed Loop

Description	Size	Dimensions mm	Color	P/N
Rack Cooling Unit for DCE Server Cabinets	42U	300x1200	RAL7021	E15RCU3042A-GE
Rack Cooling Unit for DCE Server Cabinets	47U	300x1200	RAL7021	E15RCU3447A-GE

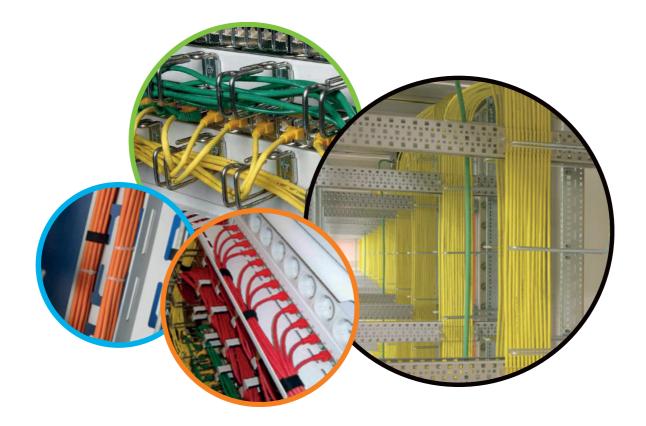
Ordering Information - Side Cooler

Description	Size	Dimensions mm	Color	P/N
DCE Server Cabinets with integral in row Side Cooler	42U	300x1200	RAL7021	E11RCU3042B-GE
DCE Server Cabinets with integral in row Side Cooler	47U	300x1200	RAL7021	E11RCU3447B-GE





DCE & RCE accessories cover all mechanical elements needed to achieve userfriendly and future-proof cable management in the rack, enabling unlimited network expansion.







DCE & RCE accessories include shelves & rack support elements, vertical and horizontal cable management elements, vertical cable trays, blank panels, air separation units and more.



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DCE Server Cabinets Accessories Description

Accessories for free standing 19" server cabinets for data centers Cabinet size range 42U and 47U, 600x1100 mm and 600x1200 mm

Standard & EU Directives Conformance

- Mechanical structure conforming to EN 61587-1
- Corrosion resistance (salt spray) acc. to ISO 9227, ASTM B117
- EU Directive 2011/65/EU (RoHS-2)



Ordering Information - Air Separation Kit

Description	Contents	Color	Size	Cut Out	P/N
Air Separation Kit for DCE Server Cabinets	2 side panels, 1 panel bottom, 1 panel with foam top, mounting material	Dark Gray RAL 7021	42U	No	415A20060NA-BK51
Air Separation Kit for DCE Server Cabinets	2 side panels, 1 panel bottom, 1 panel with foam top, mounting material	Dark Gray RAL 7021	47U	No	E15AS82047A-GE51
Air Separation Kit for DCE Server Cabinets	2 side panels, 1 panel bottom, 1 panel with foam top, mounting material	Dark Gray RAL 7021	42U	3x19" panels	E15AS82042B-GE51
Air Separation Kit for DCE Server Cabinets	2 side panels, 1 panel bottom, 1 panel with foam top, mounting material	Dark Gray RAL 7021	47U	3x19" panels	E15AS82047B-GE51

Ordering Information - Mounting Adapter Set

Description	Contents	Material	Color	P/N
Mounting adapter set for DCE Server Cabinets, Zero U	Set of 4 units	Sheet Steel, zinc passivated	Metal Shade	E15MA19001A-MT

Ordering Information - PDU Bracket

Description	Contents	Material	Size	Color	P/N
Mounting adapter set for DCE Server Cabinets	1 PDU Bracket, mounting materials	Sheet Steel, zinc passivated, powder coated	42U	Dark Gray RAL 7021	E15PB20042A-BK51
Mounting adapter set for DCE Server Cabinets	1 PDU Bracket, mounting materials	Sheet Steel, zinc passivated, powder coated	47U	Dark Gray RAL 7021	E15PB20047A-BK51

Ordering Information - Anti-Tilt Set

Description	Contents	Color	P/N
Anti-tilt set for DCE Server Cabinets	Set of 2 arms	Red	E15AT00200A-RD

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DCE Server Cabinets Accessories (contd.)

Ordering Information - Plinth

Description	Contents	Material	Size mm	Color	Height mm	P/N
Heavy-duty Plinth for DCE Server Cabinets	4 plinth corners with leveling, 2 plinth panels with slots, 2 plinth panels closed on the side, Mounting material	Sheet Steel, powder coated	600x1000	Dark Gray RAL 7021	100	415SCK007TP-BK51
Heavy-duty Plinth for DCE Server Cabinets	4 plinth corners with leveling, 2 plinth panels with slots, 2 plinth panels closed on the side, Mounting material	Sheet Steel, powder coated	600x1200	Dark Gray RAL 7021	100	E15HDP6120A-BK
Heavy-duty Plinth for DCE Server Cabinets	4 plinth corners with leveling, 2 plinth panels with slots, 2 plinth panels closed on the side, Mounting material	Sheet Steel, powder coated	800x1000	Dark Gray RAL 7021	100	E15HDP8100A-BK
Heavy-duty Plinth for DCE Server Cabinets	4 plinth corners with leveling, 2 plinth panels with slots, 2 plinth panels closed on the side, Mounting material	Sheet Steel, powder coated	800×1200	Dark Gray RAL 7021	100	E15HDP8120A-BK

Ordering Information - Bottom Cover

Description	Contents	Material	Size mm	P/N
Bottom cover for DCE Server Cabinets with cable entry	1 cable entry, 3 bottom covers, 2 mounting brackets, Mounting material	Sheet steel, 1.5 mm, zinc-passivated Sponge rubber, 50 mm x 50 mm	600x1000	E15BC60100A-MT
Bottom cover for DCE Server Cabinets with cable entry	1 cable entry, 3 bottom covers, 2 mounting brackets, Mounting material	Sheet steel, 1.5 mm, zinc-passivated Sponge rubber, 50 mm x 50 mm	600x1200	E15BC60120A-MT
Bottom cover for DCE Server Cabinets with cable entry	1 cable entry, 3 bottom covers, 2 mounting brackets, Mounting material	Sheet steel, 1.5 mm, zinc-passivated Sponge rubber, 50 mm x 50 mm	800x1000	E15BC80100A-MT
Bottom cover for DCE Server Cabinets with cable entry	1 cable entry, 3 bottom covers, 2 mounting brackets, Mounting material	Sheet steel, 1.5 mm, zinc-passivated Sponge rubber, 50 mm x 50 mm	800x1200	E15BC80120A-MT

Ordering Information - Baying Kits

Description	Dimensions mm	Color	P/N
Baying Kit for RCE & DCE Server & Network Cabinets	Set of 4 units	Sheet Steel, zinc passivated	F15HBK104NA-MT

Ordering Information - Blank Panels

Description	Contents	Material	Size	Color	P/N
19" Tool-Less Metal Blank Panel for RCE & DCE Server & Network Cabinets	19" blanking panel, mounting material, set of 6 pcs.	Steel Sheet, 1.0 mm	1U	Dark Gray RAL 7021	F15TLBP601A-GE
19" Tool-Less Metal Blank Panel for RCE & DCE Server & Network Cabinets	19" blanking panel, mounting material, set of 3 pcs.	Steel Sheet, 1.0 mm	2U	Dark Gray RAL 7021	F15TLBP302A-GE
19" Tool-Less Metal Blank Panel for RCE & DCE Server & Network Cabinets	19" blanking panel, mounting material, set of 2 pcs.	Steel Sheet, 1.0 mm	3U	Dark Gray RAL 7021	F15TLBP203A-GE
19" Tool-Less Metal Blank Panel for RCE & DCE Server & Network Cabinets	19" blanking panel, mounting material, set of 1 pcs.	Steel Sheet, 1.0 mm	6U	Dark Gray RAL 7021	F15TLBP106A-GE
19" Tool-Less Metal Blank Panel for RCE & DCE Server & Network Cabinets	19" blanking panel, mounting material, set of 2 pcs.	Steel Sheet, 1.0 mm	9U	Dark Gray RAL 7021	F15TLBP209A-GE
19" Tool-Less Cable Entry for RCE & DCE Server & Network Cabinets	19" blanking panel cable ports, mounting material, set of 6 pcs.	Steel Sheet, 1.0 mm	1U	Dark Gray RAL 7021	F15TLCE601A-GE

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AT&T CenterLine

DCE Server Cabinets Accessories (contd.)

Ordering Information - Shelves & Rack Support

Description	Contents	Material	Size (Depth)	Color	P/N
19" Tool-Less Metal Fixed Shelf for RCE & DCE Server & Network Cabinets	19" Tool-Less shelf, mounting material	Steel Sheet, 1.0 mm	-	Dark Gray RAL 7021	F15TLFS500A-BK
Fixed Vented Steel Shelf for RCE & DCE Server & Network Cabinets	2 mounting rails including bracket, 1 shelf board, 1 extension board, mounting material	Steel Sheet, 1.0 mm	800 mm	Dark Gray RAL 7021	F15VFS0805A-GE
Fixed Vented Steel Shelf for RCE & DCE Server & Network Cabinets	2 mounting rails including bracket, 1 shelf board, 1 extension board, mounting material	Steel Sheet, 1.0 mm	1000 mm	Dark Gray RAL 7021	F15VFS1005A-GE
Telescopic Vented Steel Shelf for RCE & DCE Server & Network Cabinets	1 pair of telescopic slides, 1 shelf board, 1 extension board, mounting material.	Steel Sheet, 1.0 mm	800 mm	Dark Gray RAL 7021	F15VTS0805A-GE
Telescopic Vented Steel Shelf for RCE & DCE Server & Network Cabinets	1 pair of telescopic slides, 1 shelf board, 1 extension board, mounting material.	Steel Sheet, 1.0 mm	1000 mm	Dark Gray RAL 7021	F15VTS1005A-GE
19" Telescopic Drawer for RCE & DCE Server & Network Cabinets	1 pair of telescopic slides, 19" drawer with board including key, mounting material.	Steel Sheet, 1.0 mm	600-1000 mm	Dark Gray RAL 7021	F15TDR0002A-GE
Fixed Vented Steel Shelf for RCE & DCE Server & Network Cabinets	1 shelf (fixed), mounting material	Steel Sheet, 1.5 mm	280 mm	Light Gray RAL 7035	F15VFS2502B-GL
19" Aluminum Rack Support for RCE & DCE Server & Network Cabinets	2 slot-in rails, mounting material	Extruded Aluminum, 1.4 mm, Polished	565 mm	Metal Shade	F15MRS6000A-MT
19" Aluminum Rack Support for RCE & DCE Server & Network Cabinets	2 slot-in rails, mounting material	Extruded Aluminum, 1.4 mm, Polished	740 mm	Metal Shade	F15MRS8000A-MT
19" Aluminum Rack Support for RCE & DCE Server & Network Cabinets	2 slot-in rails, mounting material	Steel Sheet, 2.0 mm	565 mm	Metal Shade	F15MRS6000B-MT
19" Aluminum Rack Support for RCE & DCE Server & Network Cabinets	2 slot-in rails, mounting material	Steel Sheet, 2.0 mm	740 mm	Metal Shade	F15MRS8000B-MT

Ordering Information - Vertical Cable Management

Description	Contents	Material	Size	Color	P/N
Vertical Cable Management for DCE Server & Network Cabinets with Retainers	1 cable duct (left), 1 cable duct (right), 4 rows with cable fingers, 4 rubber grommets, Mounting material.	Cable duct: Sheet steel, 2.0 mm Cable fingers: Polyamide (UL 94 V-0), Black	42U	Dark Gray RAL 7021	E15VM80042R-BK
Vertical Cable Management for DCE Server & Network Cabinets with Retainers	1 cable duct (left) , 1 cable duct (right), 4 rows with cable fingers, 4 rubber grommets, Mounting material.	Cable duct: Sheet steel, 2.0 mm Cable fingers: Polyamide (UL 94 V-0), Black	47U	Dark Gray RAL 7021	E15VM80047R-BK
DCE Cover for Vertical Cable Management with Retainers	2 covers, 8 fixing clips.	Cover: Sheet steel, 2.0 mm Fixing Clip: Polyamide (UL 94 V-0), Black	42U	Dark Gray RAL 7021	E15CM80042R-BK
DCE Cover for Vertical Cable Management with Retainers	2 covers, 8 fixing clips.	Cover: Sheet steel, 2.0 mm Fixing Clip: Polyamide (UL 94 V-0), Black	47U	Dark Gray RAL 7021	E15CM80047R-BK

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CenterLine

AT&T CenterLine

DCE Server Cabinets Accessories (contd.)

Ordering Information - Air Separation Kit

Description	Contents	Material	Size	Color	P/N
Air Separation Kit for DCE Server Cabinets with retainers	1 bottom plate, 6 covers for cable routing, Foam on the sides, Foam on top, Mounting material	Bottom plate, cover plate: Sheet steel, 1.0 mm. Foam: PUR-Ether (UL94 HF-1)	42U	Dark Gray RAL 7021	E15AS82042A-GE51
Air Separation Kit for DCE Server Cabinets with retainers	1 bottom plate, 6 covers for cable routing, Foam on the sides, Foam on top, Mounting material	Bottom plate, cover plate: Sheet steel, 1.0 mm. Foam: PUR-Ether (UL94 HF-1)	47U	Dark Gray RAL 7021	E15AS82247A-GE51
Brush set for DCE & RCE Vertical Cable Management with Retainers	3 pair of brushes	-	99 mm	Black	F15UBS0001R-BK

Ordering Information - Horizontal Cable Management

Description	Contents	Material	Size	Color	P/N
19" Universal Horizontal Cable Management with Retainers	1 cable duct. 2 rows with cable fingers. Mounting material.	Cable duct: Sheet Steel, 2.0 mm, Cable fingers: Polyamide (UL 94 V-0), black.	2U	Dark Gray RAL 7021	F15HM01452R-GE
Cover for 19" Universal Horizontal Cable Management with Retainers	1 Cover, 4 fixing clips	Cover: Sheet Steel, 2.0 mm, Fixing clip: Polyamide (UL 94 V-0), black.	2U	Dark Gray RAL 7021	F15CM01452R-GE
19" Universal Horizontal Cable Management with Rings	1 19" Front panel, 5 rings	Front panel: Sheet Steel 1.0 mm.	2U	Dark Gray RAL 7021	F15HM00951G-GE
19" Fiber optic Horizontal Cable Routing Board	1 19" cable routing board	Sheet Steel 1.5 mm	1U	Light Gray RAL 7035	F3RHM00631A-GL
Cover for 19" Fiber optic Horizontal Cable Routing Board	1 Cover	Sheet Steel 1.5 mm	1U	Light Gray RAL 7035	F3RHMC0631A-GL
Universal Horizontal Metal Cable Routing Brace	4 cable routing braces, Mounting material	Sheet Steel, 1.5 mm	800 mm	Metal Shade	F15HCB0804A-MT
Universal Horizontal Metal Cable Routing Brace	4 cable routing braces, Mounting material	Sheet Steel, 1.5 mm	1000 mm	Metal Shade	F15HCB1004A-MT

Ordering Information - Vertical Cable Tray

Description	Contents	Material	Size	Color	P/N
Universal Vertical Metal Cable Tray, 150 mm	1 cable tray, Mounting material	Sheet Steel 1.5 mm, zinc passivated, powder-coated	42U	Light Gray RAL 7035	F15VCT1520A-GE
Universal Vertical Metal Cable Tray, 150 mm	1 cable tray, Mounting material	Sheet Steel 1.5 mm, zinc passivated, powder-coated	47U	Light Gray RAL 7035	F15VCT1522A-GE

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CenterLine

AT&T CenterLine DCE Server Cabinets Accessories (contd.)

Ordering Information - Top Cable Management

Description	Contents	Material	Size mm	Color	P/N
Cold Corridor Containment Top Cable Management Support Element	2 depth supports, mounting material	Sheet Steel 2.0 mm	1000	Dark Gray RAL 7021	E15TSE1044A-GE
Cold Corridor Containment Top Cable Management Support Element	2 depth supports, mounting material	Sheet Steel 2.0 mm	1200	Dark Gray RAL 7021	E15TSE1244A-GE
Cold Corridor Containment Top Cable Management Side Brackets	2 cross walls, mounting material	Sheet Steel 1.0 mm	300x90	Dark Gray RAL 7021	E15CMB0390A-GE
Cold Corridor Containment Top Cable Management Side Brackets	2 cross walls, mounting material	Sheet Steel 1.0 mm	600x90	Dark Gray RAL 7021	E15CMB0690A-GE
Cold Corridor Containment Top Cable Management Side Brackets	2 cross walls, mounting material	Sheet Steel 1.0 mm	800x90	Dark Gray RAL 7021	E15CMB0890A-GE
Cold Corridor Containment Top Cable Management Side Brackets	2 cross walls, mounting material	Sheet Steel 1.0 mm	2400x90	Dark Gray RAL 7021	E15CMB2490A-GE
Cold Corridor Containment Top Cable Management Side Brackets	2 cross walls, mounting material	Sheet Steel 1.0 mm	3000x90	Dark Gray RAL 7021	E15CMB3090A-GE
Cold Corridor Containment Top Cable Management Support Tray	1 center section, mounting material	Sheet Steel 1.5 mm	600x200	Dark Gray RAL 7021	E15CMT2625A-GE
Cold Corridor Containment Top Cable Management Support Tray	1 center section, mounting material	Sheet Steel 1.5 mm	600x600	Dark Gray RAL 7021	E15CMT6625A-GE
Cold Corridor Containment Top Cable Management Support Tray	1 center section, mounting material	Sheet Steel 1.5 mm	800x200	Dark Gray RAL 7021	E15CMT2825A-GE
Cold Corridor Containment Top Cable Management Support Tray	1 center section, mounting material	Sheet Steel 1.5 mm	800x600	Dark Gray RAL 7021	E15CMT6825A-GE
Cold Corridor Containment Top Cable Management Joining Tray	1 joining section, mounting material	Sheet Steel 1.5 mm	200	Dark Gray RAL 7021	E15CMJ2x25A-GE
Cold Corridor Containment Top Cable Management Joining Tray	1 joining section, mounting material	Sheet Steel 1.5 mm	600	Dark Gray RAL 7021	E25CMJ6x25A-GE
Cold Corridor Containment Top Cable Management End Bracket	2 end walls, mounting material	Sheet Steel 1.0 mm	200	Dark Gray RAL 7021	E15CMEB200A-GE
Cold Corridor Containment Top Cable Management End Bracket	2 end walls, mounting material	Sheet Steel 1.0 mm	600	Dark Gray RAL 7021	E15CMEB600A-GE
Cold Corridor Containment Top Cable Management Side Bracket Connecting Part	10 connecting parts, mounting material	Sheet Steel 1.5 mm	-	Dark Gray RAL 7021	E15CMCP010A-GE
Cold Corridor Containment Top Cable Management Filler Panel	10 filler panels, mounting material	Sheet Steel 1.0 mm	229x183	Dark Gray RAL 7021	E15CMFP010A-GE
Cold Corridor Containment Top Cable Management Cross Support	2 cross supports, mounting material	Sheet Steel 2.0 mm	600	Dark Gray RAL 7021	E15CMCS620A-GE
Cold Corridor Containment Top Cable Management Cross Support	2 cross supports, mounting material	Sheet Steel 2.0 mm	800	Dark Gray RAL 7021	E15CMCS820A-GE
Cold Corridor Containment Top Cable Management Cross Filler Panel	5 filler panels, mounting material	Sheet Steel 1.0 mm	200x200	Dark Gray RAL 7021	E15CMCFP22A-GE
Cold Corridor Containment Top Cable Management Cross Filler Panel	5 filler panels, mounting material	Sheet Steel 1.0 mm	600x200	Dark Gray RAL 7021	E15CMCFP62A-GE
Cold Corridor Containment Top Cable Management Cross Filler Panel	5 filler panels, mounting material	Sheet Steel 1.0 mm	600x600	Dark Gray RAL 7021	E15CMCFP66A-GE



AT&T CenterLine

RCE Network Cabinets Accessories

Accessories for free standing 19" server cabinets for data centers Cabinet size range 42U and 47U, 600x1100 mm and 600x1200 mm

Standard & EU Directives Conformance

- Mechanical structure conforming to EN 61587-1
- Corrosion resistance (salt spray) acc. to ISO 9227, ASTM B117
- EU Directive 2011/65/EU (RoHS-2)



Ordering Information - Plinth

Description	Contents	Material	Size mm	Color	Height mm	P/N
Stationary Plinth for RCE Network Cabinets	4 plinth corners with leveling, 2 plinth panels with slots, 2 plinth panels closed on the side, Mounting material	Sheet Steel, powder coated	600X600	Light Gray RAL 7035	100	F15STP6060A-GE
Stationary Plinth for RCE Network Cabinets	4 plinth corners with leveling, 2 plinth panels with slots, 2 plinth panels closed on the side, Mounting material	Sheet Steel, powder coated	600X800	Light Gray RAL 7035	100	F15STP6080A-GE
Stationary Plinth for RCE Network Cabinets	4 plinth corners with leveling, 2 plinth panels with slots, 2 plinth panels closed on the side, Mounting material	Sheet Steel, powder coated	800X800	Light Gray RAL 7035	100	F15STP8080A-GE
Stationary Plinth for RCE Network Cabinets	4 plinth corners with leveling, 2 plinth panels with slots, 2 plinth panels closed on the side, Mounting material	Sheet Steel, powder coated	800X1000	Light Gray RAL 7035	100	F15STP8100A-GE

Ordering Information - Mounting Adapter Set

Description	Contents	Material	Color	P/N
Mounting adapter set for RCE Server & Network Cabinets	Set of 4 units	Sheet Steel, zinc passivated	Metal Shade	F15MA19001A-MT

Ordering Information - Castors

Description	Contents	Material	Size	P/N
Castors set for RCE Network Cabinets	Set of 4 units	Sheet Steel, zinc passivated, powder coated	Castor diameter, 75 mm – Threaded bolt, M12	F15CS75M12A-BK

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CenterLine

AT&T CenterLine RCE Network Cabinets Accessories (contd.)

Ordering Information - Air Separation Kit

Description	Contents	Material	Size mm	Color	P/N
Air Separation Kit for RCE Network Cabinets with cut-out 41U	2 side panels (cut-outs covered), 2 panels, top/bottom, Mounting material	Sheet Steel, powder coated	600	Dark Gray RAL 7021	F15AS62041B-GE51
Air Separation Kit for RCE Network Cabinets with cut-out 41U	2 side panels (cut-outs covered), 2 panels, top/bottom, Mounting material	Sheet Steel, powder coated	800	Dark Gray RAL 7021	F15AS82041B-GE51
Air Separation Kit for RCE Network Cabinets with cut-out 46U	2 side panels (cut-outs covered), 2 panels, top/bottom, Mounting material	Sheet Steel, powder coated	600	Dark Gray RAL 7021	F15AS62246B-GE51
Air Separation Kit for RCE Network Cabinets with cut-out 46U	2 side panels (cut-outs covered), 2 panels, top/bottom, Mounting material	Sheet Steel, powder coated	800	Dark Gray RAL 7021	F15AS82246B-GE51

Ordering Information - Vertical Cable Management

Description	Contents	Material	Size	Color	P/N
Vertical Cable Management for Server & Network Cabinets with Cover	2 front panels, Mounting material	Sheet Steel, 1.0 mm, powder-coated texture	41U	Light Gray RAL 7035	F15VM80041N-BK
Vertical Cable Management for Server & Network Cabinets with Cover	2 front panels, Mounting material	Sheet Steel, 1.0 mm, powder-coated texture	46U	Light Gray RAL 7035	F15VM80046N-BK
Vertical Cable Management for RCE Server & Network Cabinets with Retainers	1 cable duct, 2 rows with cable fingers, 2 rubber grommets, Mounting material.	Cable duct: Sheet Steel, 2.0 mm. Cable fingers: Polyamide (UL 94 V-0), Black	41U	Dark Gray RAL 7021	F15VM80041R-BK
Vertical Cable Management for DCE Server & Network Cabinets with Retainers	1 cable duct (left), 1 cable duct (right), 4 rows with cable fingers, 4 rubber grommets, Mounting material.	Cable duct: Sheet Steel, 2.0 mm. Cable fingers: Polyamide (UL 94 V-0), Black	46U	Dark Gray RAL 7021	F15VM80046R-BK
DCE Cover for Vertical Cable Management with Retainers	1 cover, 12 fixing clips.	Cover: Sheet Steel, 2.0 mm. Fixing Clip: Polyamide (UL 94 V-0), Black	41U	Dark Gray RAL 7021	F15CM80041R-BK
DCE Cover for Vertical Cable Management with Retainers	1 cover, 12 fixing clips.	Cover: Sheet Steel, 2.0 mm. Fixing Clip: Polyamide (UL 94 V-0), Black	46U	Dark Gray RAL 7021	F15CM80046R-BK

Ordering Information - Bottom Cover

Description	Contents	Material	Size mm	P/N
Bottom Cover for RCE Server & Network Cabinets with cable entry	1 cable entry, 2 bottom covers, 2 mounting brackets, Mounting material	Sheet steel, 1.5 mm, zinc-passivated Sponge rubber, 50 mm x 50 mm	600x600	F15BC60060A-MT
Bottom Cover for RCE Server & Network Cabinets with cable entry	1 cable entry, 2 bottom covers, 2 mounting brackets, Mounting material	Sheet steel, 1.5 mm, zinc-passivated Sponge rubber, 50 mm x 50 mm	600×800	F15BC60080A-MT
Bottom Cover for RCE Server & Network Cabinets with cable entry	1 cable entry, 2 bottom covers, 2 mounting brackets, Mounting material	Sheet steel, 1.5 mm, zinc-passivated Sponge rubber, 50 mm x 50 mm	800x800	F15BC80060A-MT
Bottom Cover for RCE Server & Network Cabinets with cable entry	1 cable entry, 2 bottom covers, 2 mounting brackets, Mounting material	Sheet steel, 1.5 mm, zinc-passivated Sponge rubber, 50 mm x 50 mm	800×1000	F15BC80100A-MT

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AT&T CenterLine

RCE Network Cabinets Accessories (contd.)

Ordering Information - Air Removal Unit

Description	Contents	Material	Fan Units	P/N
Air Removal Unit with Thermostat for RCE Server & Network Cabinets	Air Removal Unit, 1 mains cable, 3 m with safety plug (230 VAC) Mounting material, Operating instructions	Housing: Sheet Steel, high-grade steel grid. Finish: Zinc-passivated	2	F15ARUT002A-MT
Air Removal Unit with Thermostat for RCE Server & Network Cabinets	Air Removal Unit, 1 mains cable, 3 m with safety plug (230 VAC) Mounting material, Operating instructions	Housing: Sheet Steel, high-grade steel grid. Finish: Zinc-passivated	3	F15ARUT003A-MT
Air Removal Unit with Thermostat for RCE Server & Network Cabinets	Air Removal Unit, 1 mains cable, 3 m with safety plug (230 VAC) Mounting material, Operating instructions	Housing: Sheet Steel, high-grade steel grid. Finish: Zinc-passivated	6	F15ARUT006A-MT
Air Removal Unit with Speed-control for RCE Server & Network Cabinets	Air Removal Unit, 1 mains cable, 3 m with safety plug (230 VAC) Mounting material, Operating instructions	Housing: Sheet Steel, high-grade steel grid. Finish: Zinc-passivated	2	F15ARUS003A-MT
Air Removal Unit with Speed-control for RCE Server & Network Cabinets	Air Removal Unit, 1 mains cable, 3 m with safety plug (230 VAC) Mounting material, Operating instructions	Housing: Sheet Steel, high-grade steel grid. Finish: Zinc-passivated	3	F15ARUS006A-MT

Ordering Information - Baying Kits

Description	Contents	Material	P/N
Baying Kit for RCE & DCE Server & Network Cabinets	Set of 4 units	Sheet Steel, zinc passivated	F15HBK104NA-MT

Ordering Information - Blank Panels

Description	Contents	Material	Size	Color	P/N
19" Tool-Less Metal Blank Panel for RCE & DCE Server & Network Cabinets	19" blanking panel, mounting material, set of 6 pcs.	Steel Sheet, 1.0 mm	1U	Dark Gray RAL 7021	F15TLBP601A-GE
19" Tool-Less Metal Blank Panel for RCE & DCE Server & Network Cabinets	19" blanking panel, mounting material, set of 3 pcs.	Steel Sheet, 1.0 mm	2U	Dark Gray RAL 7021	F15TLBP302A-GE
19" Tool-Less Metal Blank Panel for RCE & DCE Server & Network Cabinets	19" blanking panel, mounting material, set of 2 pcs.	Steel Sheet, 1.0 mm	3U	Dark Gray RAL 7021	F15TLBP203A-GE
19" Tool-Less Metal Blank Panel for RCE & DCE Server & Network Cabinets	19" blanking panel, mounting material, set of 1 pcs.	Steel Sheet, 1.0 mm	6U	Dark Gray RAL 7021	F15TLBP106A-GE
19" Tool-Less Metal Blank Panel for RCE & DCE Server & Network Cabinets	19" blanking panel, mounting material, set of 2 pcs.	Steel Sheet, 1.0 mm	9U	Dark Gray RAL 7021	F15TLBP209A-GE
19" Tool-Less Cable Entry for RCE & DCE Server & Network Cabinets	19" blanking panel cable ports, mounting material, set of 6 pcs.	Steel Sheet, 1.0 mm	1U	Dark Gray RAL 7021	F15TLCE601A-GE

Ordering Information - Vertical Cable Management Rings

Description	Content	Color	P/N
Closed Modular Cable Management Metal Ring for RCE Network Cabinets	300X80/280X58 Set (4 pcs.)	Metal	F15CMR0458A-MT
Closed Modular Cable Management Metal Ring for RCE Network Cabinets	300X46/288X24 Set (4 pcs.)	Metal	F15CMR0424B-MT
Closed Modular Cable Management Metal Ring for RCE Network Cabinets	86X86/76X76 Set (4 pcs.)	Metal	F15CMR0476C-MT
Open Modular Cable Management Metal Ring for RCE Network Cabinets	82X43/72X33 Set (10 pcs.)	Metal	F15PMR1033A-MT
Open Modular Cable Management Metal Ring for RCE Network Cabinets	222X30/212X20 (Set 10 pcs.)	Metal	F15PMR1020B-MT
Open Modular Cable Management Metal Ring for RCE Network Cabinets	102X82/92X72 (Set 10 pcs.)	Metal	F15PMR1072C-MT
Closed Modular Cable Management Plastic Ring for RCE Network Cabinets	Cable Routing Ring Set (5 pcs.)	Black	F15CPR0554A-BK
Velcro Strip	25m	Black	F15VSTR025A-BK

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AT&T CenterLine RCE Network Cabinets Accessories (contd.)

Ordering Information - Shelves & Rack Support

Description	Contents	Material	Size (Depth)	Color	P/N
19" Tool-Less Metal Fixed Shelf for RCE & DCE Server & Network Cabinets	19" Tool-Less shelf, mounting material	Steel Sheet, 1.0 mm	-	Dark Gray RAL 7021	F15TLFS500A-BK
Fixed Vented Steel Shelf for RCE & DCE Server & Network Cabinets	2 mounting rails including bracket, 1 shelf board, 1 extension board, mounting material	Steel Sheet, 1.0 mm	800 mm	Dark Gray RAL 7021	F15VFS0805A-GE
Fixed Vented Steel Shelf for RCE & DCE Server & Network Cabinets	2 mounting rails including bracket, 1 shelf board, 1 extension board, mounting material	Steel Sheet, 1.0 mm	1000 mm	Dark Gray RAL 7021	F15VFS1005A-GE
Telescopic Vented Steel Shelf for RCE & DCE Server & Network Cabinets	1 pair of telescopic slides, 1 shelf board, 1 extension board, mounting material.	Steel Sheet, 1.0 mm	800 mm	Dark Gray RAL 7021	F15VTS0805A-GE
Telescopic Vented Steel Shelf for RCE & DCE Server & Network Cabinets	1 pair of telescopic slides, 1 shelf board, 1 extension board, mounting material.	Steel Sheet, 1.0 mm	1000 mm	Dark Gray RAL 7021	F15VTS1005A-GE
19" Telescopic Drawer for RCE & DCE Server & Network Cabinets	1 pair of telescopic slides, 19" drawer with board including key, mounting material.	Steel Sheet, 1.0 mm	600-1000 mm	Dark Gray RAL 7021	F15TDR0002A-GE
Fixed Vented Steel Shelf for RCE & DCE Server & Network Cabinets	1 shelf (fixed), mounting material	Steel Sheet, 1.5 mm	280 mm	Light Gray RAL 7035	F15VFS2502B-GL
19" Aluminum Rack Support for RCE & DCE Server & Network Cabinets	2 slot-in rails, mounting material	Extruded alu- minum, 1.4 mm, polished	565 mm	Metal Shade	F15MRS6000A-MT
19" Aluminum Rack Support for RCE & DCE Server & Network Cabinets	2 slot-in rails, mounting material	Extruded alu- minum, 1.4 mm, polished	740 mm	Metal Shade	F15MRS8000A-MT
19" Aluminum Rack Support for RCE & DCE Server & Network Cabinets	2 slot-in rails, mounting material	Steel Sheet, 2.0 mm	565 mm	Metal Shade	F15MRS6000B-MT
19" Aluminum Rack Support for RCE & DCE Server & Network Cabinets	2 slot-in rails, mounting material	Steel Sheet, 2.0 mm	740 mm	Metal Shade	F15MRS8000B-MT

Ordering Information - Horizontal Cable Management

Description	Contents	Material	Size	Color	P/N
19" Universal Horizontal Cable Management with Retainers	1 cable duct. 2 rows with cable fingers. Mounting material.	Cable duct: Sheet Steel, 2.0 mm, Cable fingers: Polyamide (UL 94 V-0), black.	2U	Dark Gray RAL 7021	F15HM01452R-GE
Cover for 19" Universal Horizontal Cable Management with Retainers	1 Cover, 4 fixing clips	Cover: Sheet Steel, 2.0 mm, Fixing clip: Polyamide (UL 94 V-0), black.	2U	Dark Gray RAL 7021	F15CM01452R-GE
19" Universal Horizontal Cable Management with Rings	1 19" Front panel, 5 rings	Front panel: Sheet Steel, 1.0 mm.	2U	Dark Gray RAL 7021	F15HM00951G-GE
19" Fiber Optic Horizontal Cable Routing Board	119" cable routing board	Sheet Steel 1.5 mm	1U	Light Gray RAL 7035	F3RHM00631A-GL
Cover for 19" Fiber Optic Horizontal Cable Routing Board	1 Cover	Sheet Steel 1.5 mm	1U	Light Gray RAL 7035	F3RHMC0631A-GL
Universal Horizontal Metal Cable Routing Brace	4 cable routing braces, Mounting material	Sheet Steel, 1.5 mm	800 mm	Metal Shade	F15HCB0804A-MT
Universal Horizontal Metal Cable Routing Brace	4 cable routing braces, Mounting material	Sheet Steel, 1.5 mm	1000 mm	Metal Shade	F15HCB1004A-MT
19" Universal Horizontal Cable Routing Board	1 19" cable routing board		1U	Dark Gray	F15HM010010-GE

Ordering Information - Nuts, Washers and Screws

Description	Contents	Thread	Thread	P/N
Nuts, Washers and Screws	Set	M5x1.5mm	Metal	F15NWS1550A-MT
Nuts, Washers and Screws	Set	M5x2.5mm	Metal	F15NWS2550A-MT

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AT&T CenterLine

RCE Network Cabinets Accessories (contd.)

Ordering Information - Vertical Cable Tray

Description	Contents	Material	Size	Color	P/N
Universal Vertical Metal Cable Tray, 150 mm	1 cable tray, Mounting material	Sheet Steel 1.5 mm, zinc passivated, powder-coated	42U	Light Gray RAL 7035	F15VCT1520A-GE
Universal Vertical Metal Cable Tray, 150 mm	1 cable tray, Mounting material	Sheet Steel 1.5 mm, zinc passivated, powder-coated	47U	Light Gray RAL 7035	F15VCT1522A-GE

Ordering Information - Top Cable Management

Description	Contents	Material	Size mm	Color	P/N
DCE&RCE Cabinet Support Element for Top Cable Management	2 depth supports, mounting material	Sheet Steel 2.0 mm	1000	Dark Gray RAL 7021	E15TSE1044A-GE
DCE&RCE Cabinet Support Element for Top Cable Management	2 depth supports, mounting material	Sheet Steel 2.0 mm	1200	Dark Gray RAL 7021	E15TSE1244A-GE
DCE&RCE Cabinet Side Brackets for Top Cable Management	2 cross walls, mounting material	Sheet Steel 1.0 mm	300x90	Dark Gray RAL 7021	E15CMB0390A-GE
DCE&RCE Cabinet Side Brackets for Top Cable Management	2 cross walls, mounting material	Sheet Steel 1.0 mm	600x90	Dark Gray RAL 7021	E15CMB0690A-GE
DCE&RCE Cabinet Side Brackets for Top Cable Management	2 cross walls, mounting material	Sheet Steel 1.0 mm	800x90	Dark Gray RAL 7022	E15CMB0890A-GE
DCE&RCE Cabinet Side Brackets for Top Cable Management	2 cross walls, mounting material	Sheet Steel 1.0 mm	2400x90	Dark Gray RAL 7023	E15CMB2490A-GE
DCE&RCE Cabinet Side Brackets for Top Cable Management	2 cross walls, mounting material	Sheet Steel 1.0 mm	3000x90	Dark Gray RAL 7024	E15CMB3090A-GE
DCE&RCE Cabinet Support Tray for Top Cable Management	1 center section, mounting material	Sheet Steel 1.5 mm	600x200	Dark Gray RAL 7021	E15CMT2625A-GE
DCE&RCE Cabinet Support Tray for Top Cable Management	1 center section, mounting material	Sheet Steel 1.5 mm	600×600	Dark Gray RAL 7021	E15CMT6625A-GE
DCE&RCE Cabinet Support Tray for Top Cable Management	1 center section, mounting material	Sheet Steel 1.5 mm	800×200	Dark Gray RAL 7021	E15CMT2825A-GE
DCE&RCE Cabinet Support Tray for Top Cable Management	1 center section, mounting material	Sheet Steel 1.5 mm	800x600	Dark Gray RAL 7021	E15CMT6825A-GE
DCE&RCE Cabinet Joining Tray for Top Cable Management	1 joining section, mounting material	Sheet Steel 1.5 mm	200	Dark Gray RAL 7021	E15CMJ2x25A-GE
DCE&RCE Cabinet Joining Tray for Top Cable Management	1 joining section, mounting material	Sheet Steel 1.5 mm	600	Dark Gray RAL 7021	E25CMJ6x25A-GE
DCE&RCE Cabinet End Bracket for Top Cable Management	2 end walls, mounting material	Sheet Steel 1.0 mm	200	Dark Gray RAL 7021	E15CMEB200A-GE
DCE&RCE Cabinet End Bracket for Top Cable Management	2 end walls, mounting material	Sheet Steel 1.0 mm	600	Dark Gray RAL 7021	E15CMEB600A-GE
DCE&RCE Cabinet Side Bracket Connecting Part for Top Cable Management	10 connecting parts, mounting material	Sheet Steel 1.5 mm	-	Dark Gray RAL 7021	E15CMCP010A-GE
DCE&RCE Cabinet Filler Panel for Top Cable Management	10 filler panels, mounting material	Sheet Steel 1.0 mm	229x183	Dark Gray RAL 7021	E15CMFP010A-GE
DCE&RCE Cabinet Cross Support for Top Cable Management	2 cross supports, mounting material	Sheet Steel 2.0 mm	600	Dark Gray RAL 7021	E15CMCS620A-GE
DCE&RCE Cabinet Cross Support for Top Cable Management	2 cross supports, mounting material	Sheet Steel 2.0 mm	800	Dark Gray RAL 7021	E15CMCS820A-GE
DCE&RCE Cabinet Cross Filler Panel for Top Cable Management	5 filler panels, mounting material	Sheet Steel 1.0 mm	200x200	Dark Gray RAL 7021	E15CMCFP22A-GE
DCE&RCE Cabinet Cross Filler Panel for Top Cable Management	5 filler panels, mounting material	Sheet Steel 1.0 mm	600x200	Dark Gray RAL 7021	E15CMCFP62A-GE
DCE&RCE Cabinet Cross Filler Panel for Top Cable Management	5 filler panels, mounting material	Sheet Steel 1.0 mm	600x600	Dark Gray RAL 7021	E15CMCFP66A-GE



CenterLine

AT&T CenterLine

RCE Server Cabinets Accessories Description

Accessories for free standing 19" server cabinets for data centers Cabinet size range 42U and 47U, 600x1100 mm and 600x1200 mm

Standard & EU Directives Conformance

- Mechanical structure conforming to EN 61587-1
- Corrosion resistance (salt spray) acc. to ISO 9227, ASTM B117
- EU Directive 2011/65/EU (RoHS-2)



Ordering Information - Plinth

Description	Contents	Material	Size mm	Color	Height mm	P/N
Mobile Plinth for RCE SERVER Cabinets	1 plinth frame, 2 fixed castors with snib, 2 swivel castors, 4 leveling feet, 1 tilt restraint Mounting material	Sheet Steel, powder coated	600X1000	Dark Gray RAL 7021	100	F15MBP6100A-GE
Mobile Plinth for RCE SERVER Cabinets	4 plinth corners with leveling, 2 plinth panels with slots, 2 plinth panels closed on the side, Mounting material	Sheet Steel, powder coated	600X1200	Dark Gray RAL 7022	100	F15MBP6120A-GE
Mobile Plinth for RCE SERVER Cabinets	4 plinth corners with leveling, 2 plinth panels with slots, 2 plinth panels closed on the side, Mounting material	Sheet Steel, powder coated	800X1000	Dark Gray RAL 7023	100	F15MBP8100A-GE
Mobile Plinth for RCE SERVER Cabinets	4 plinth corners with leveling, 2 plinth panels with slots, 2 plinth panels closed on the side, Mounting material	Sheet Steel, powder coated	800X1200	Dark Gray RAL 7024	100	F15MBP8120A-GE

Ordering Information - Mounting Adapter Set

Description	Contents	Material	Color	P/N
Mounting adapter set for RCE Server & Network Cabinets	Set of 4 units	Sheet Steel, zinc passivated	Metal Shade	F15MA19001A-MT

Continued on page C.1.9a



AT&T CenterLine

RCE Server Cabinets Accessories (contd.)

Ordering Information - Air Separation Kit

Description	Contents	Material	Size mm	Color	P/N
Air Separation Kit for RCE Network Cabinets with cut-out 41U	2 side panels (cut-outs covered), 2 panels, top/bottom, Mounting material	Sheet Steel, powder coated	600	Dark Gray RAL 7021	F15AS62041B-GE51
Air Separation Kit for RCE Network Cabinets with cut-out 41U	2 side panels (cut-outs covered), 2 panels, top/bottom, Mounting material	Sheet Steel, powder coated	800	Dark Gray RAL 7021	F15AS82041B-GE51
Air Separation Kit for RCE Network Cabinets with cut-out 46U	2 side panels (cut-outs covered), 2 panels, top/bottom, Mounting material	Sheet Steel, powder coated	600	Dark Gray RAL 7021	F15AS62246B-GE51
Air Separation Kit for RCE Network Cabinets with cut-out 46U	2 side panels (cut-outs covered), 2 panels, top/bottom, Mounting material	Sheet Steel, powder coated	800	Dark Gray RAL 7021	F15AS82246B-GE51

Ordering Information - Bottom Cover

Description	Contents	Material	Size mm	P/N
Bottom cover for RCE Server & Network Cabinets with cable entry	1 cable entry, 2 bottom covers, mounting brackets, Mounting material	Sheet steel, 1.5 mm, zinc-passivated Sponge rubber, 50 mm x 50 mm	600x600	F15BC60060A-MT
Bottom cover for RCE Server & Network Cabinets with cable entry	1 cable entry, 2 bottom covers, 2 mounting brackets, Mounting material	Sheet steel, 1.5 mm, zinc-passivated Sponge rubber, 50 mm x 50 mm	600x800	F15BC60080A-MT
Bottom cover for RCE Server & Network Cabinets with cable entry	1 cable entry, 2 bottom covers, 2 mounting brackets, Mounting material	Sheet steel, 1.5 mm, zinc-passivated Sponge rubber, 50 mm x 50 mm	800x600	F15BC80060A-MT
Bottom cover for RCE Server & Network Cabinets with cable entry	1 cable entry, 2 bottom covers, 2 mounting brackets, Mounting material	Sheet steel, 1.5 mm, zinc-passivated Sponge rubber, 50 mm x 50 mm	800x1000	F15BC80100A-MT

Ordering Information - Air Removal Unit

Description	Contents	Material	Fan Units	P/N
Air Removal Unit with Thermostat for RCE Server & Network Cabinet	Air Removal Unit,1 mains cable, 3 m with safety plug (230 VAC) Mounting material, Operating instructions	Housing: Sheet steel, high-grade steel grid. Finish: Zinc-passivated	2	F15ARUT002A-MT
Air Removal Unit with Thermostat for RCE Server & Network Cabinets	Air Removal Unit,1 mains cable, 3 m with safety plug (230 VAC) Mounting material, Operating instructions	Housing: Sheet steel, high-grade steel grid. Finish: Zinc-passivated	3	F15ARUT003A-MT
Air Removal Unit with Thermostat for RCE Server & Network Cabinets	Air Removal Unit,1 mains cable, 3 m with safety plug (230 VAC) Mounting material, Operating instructions	Housing: Sheet steel, high-grade steel grid. Finish: Zinc-passivated	6	F15ARUT006A-MT
Air Removal Unit with Speed-control for RCE Server & Network Cabinets	Air Removal Unit,1 mains cable, 3 m with safety plug (230 VAC) Mounting material, Operating instructions	Housing: Sheet steel, high-grade steel grid. Finish: Zinc-passivated	2	F15ARUS003A-MT
Air Removal Unit with Speed-control for RCE Server & Network Cabinets	Air Removal Unit,1 mains cable, 3 m with safety plug (230 VAC) Mounting material, Operating instructions	Housing: Sheet steel, high-grade steel grid. Finish: Zinc-passivated	3	F15ARUS006A-MT

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AT&T CenterLine

RCE Server Cabinets Accessories (contd.)

Ordering Information - Baying Kits

Description	Contents	Material	P/N
Baying Kit for RCE & DCE Server & Network Cabinets	Set of 4 units	Sheet Steel, zinc passivated	F15HBK104NA-MT

Ordering Information - Blank Panels

Description	Contents	Material	Size	Color	P/N
19" Tool-Less Metal Blank Panel for RCE & DCE Server & Network Cabinets	19" blanking panel, mounting material, set of 6 pcs.	Steel Sheet, 1.0 mm	1U	Dark Gray RAL 7021	F15TLBP601A-GE
19" Tool-Less Metal Blank Panel for RCE & DCE Server & Network Cabinets	19" blanking panel, mounting material, set of 3 pcs.	Steel Sheet, 1.0 mm	2U	Dark Gray RAL 7021	F15TLBP302A-GE
19" Tool-Less Metal Blank Panel for RCE & DCE Server & Network Cabinets	19" blanking panel, mounting material, set of 2 pcs.	Steel Sheet, 1.0 mm	3U	Dark Gray RAL 7021	F15TLBP203A-GE
19" Tool-Less Metal Blank Panel for RCE & DCE Server & Network Cabinets	19" blanking panel, mounting material, set of 1 pcs.	Steel Sheet, 1.0 mm	6U	Dark Gray RAL 7021	F15TLBP106A-GE
19" Tool-Less Metal Blank Panel for RCE & DCE Server & Network Cabinets	19" blanking panel, mounting material, set of 2 pcs.	Steel Sheet, 1.0 mm	9U	Dark Gray RAL 7021	F15TLBP209A-GE
19" Tool-Less Cable Entry for RCE & DCE Server & Network Cabinets	19" blanking panel cable ports, mounting material, set of 6 pcs.	Steel Sheet, 1.0 mm	1U	Dark Gray RAL 7021	F15TLCE601A-GE

Ordering Information - Shelves & Rack Support

Description	Contents	Material	Size (Depth)	Color	P/N
19" Tool-Less Metal Fixed Shelf for RCE & DCE Server & Network Cabinets	19" Tool-Less shelf, mounting material	Steel Sheet, 1.0 mm	-	Dark Gray RAL 7021	F15TLFS500A-BK
Fixed Vented Steel Shelf for RCE & DCE Server & Network Cabinets	2 mounting rails including bracket, 1 shelf board, 1 extension board, mounting material.	Steel Sheet, 1.0 mm	800 mm	Dark Gray RAL 7021	F15VFS0805A-GE
Fixed Vented Steel Shelf for RCE & DCE Server & Network Cabinets	2 mounting rails including bracket, 1 shelf board, 1 extension board, mounting material.	Steel Sheet, 1.0 mm	1000 mm	Dark Gray RAL 7021	F15VFS1005A-GE
Telescopic Vented Steel Shelf for RCE & DCE Server & Network Cabinets	1 pair of telescopic slides, 1 shelf board, 1 extension board, mounting material.	Steel Sheet, 1.0 mm	800 mm	Dark Gray RAL 7021	F15VTS0805A-GE
Telescopic Vented Steel Shelf for RCE & DCE Server & Network Cabinets	1 pair of telescopic slides, 1 shelf board, 1 extension board, mounting material.	Steel Sheet, 1.0 mm	1000 mm	Dark Gray RAL 7021	F15VTS1005A-GE
19" Telescopic Drawer for RCE & DCE Server & Network Cabinets	1 pair of telescopic slides, 19" drawer with board including key, mounting material.	Steel Sheet, 1.0 mm	600-1000 mm	Dark Gray RAL 7021	F15TDR0002A-GE
Fixed Vented Steel Shelf for RCE & DCE Server & Network Cabinets	1 shelf (fixed), mounting material	Steel Sheet, 1.5 mm	280 mm	Light Gray RAL 7035	F15VFS2502B-GL
19" Aluminum Rack Support for RCE & DCE Server & Network Cabinets	2 slot-in rails, mounting material	Extruded alu- minum, 1.4 mm, polished	565 mm	Metal Shade	F15MRS6000A-MT
19" Aluminum Rack Support for RCE & DCE Server & Network Cabinets	2 slot-in rails, mounting material	Extruded alu- minum, 1.4 mm, polished	740 mm	Metal Shade	F15MRS8000A-MT
19" Steel Rack Support for RCE & DCE Server & Network Cabinets	2 slot-in rails, mounting material	Steel Sheet, 2.0 mm	565 mm	Metal Shade	F15MRS6000B-MT
19" Steel Rack Support for RCE & DCE Server & Network Cabinets	2 slot-in rails, mounting material	Steel Sheet, 2.0 mm	740 mm	Metal Shade	F15MRS8000B-MT

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AT&T CenterLine

RCE Server Cabinets Accessories (contd.)

Ordering Information - Horizontal Cable Management

Description	Contents	Material	Size	Color	P/N
19" Universal Horizontal Cable Management with Retainers	1 cable duct. 2 rows with cable fingers. Mounting material.	Cable duct: Sheet Steel, 2.0 mm, Cable fingers: Polyamide (UL 94 V-0), black.	2U	Dark Gray RAL 7021	F15HM01452R-GE
Cover for 19" Universal Horizontal Cable Management with Retainers	1 Cover, 4 fixing clips	Cover: Sheet Steel, 2.0 mm, Fixing clip: Polyamide (UL 94 V-0), black.	2U	Dark Gray RAL 7021	F15CM01452R-GE
19" Universal Horizontal Cable Management with Rings	1 19" Front panel, 5 rings	Front panel: Sheet Steel 1.0 mm.	2U	Dark Gray RAL 7021	F15HM00951G-GE
19" Fiber optic Horizontal Cable Routing Board	1 19" cable routing board	Sheet Steel 1.5 mm	1U	Light Gray RAL 7035	F3RHM00631A-GL
Cover for 19" Fiber optic Horizontal Cable Routing Board	1 Cover	Sheet Steel 1.5 mm	1U	Light Gray RAL 7035	F3RHMC0631A-GL
Universal Horizontal Metal Cable Routing Brace	4 cable routing braces, Mounting material	Sheet Steel, 1.5 mm	800 mm	Metal Shade	F15HCB0804A-MT
Universal Horizontal Metal Cable Routing Brace	4 cable routing braces, Mounting material	Sheet Steel, 1.5 mm	1000 mm	Metal Shade	F15HCB1004A-MT

Ordering Information - Vertical Cable Tray

Description	Contents	Material	Size	Color	P/N
Universal Vertical Metal Cable Tray, 150 mm	1 cable tray, Mounting material	Sheet Steel 1.5 mm, zinc passivated, powder-coated	42U	Light Gray RAL 7035	F15VCT1520A-GE
Universal Vertical Metal Cable Tray, 150 mm	1 cable tray, Mounting material	Sheet Steel 1.5 mm, zinc passivated, powder-coated	47U	Light Gray RAL 7035	F15VCT1522A-GE

Ordering Information - Locking Elements

Description	Contents	Access Control Method	P/N
Combination lock for DCE and RCE cabinets	1x Handle with combination lock	Mechanical or via key	E15CL01HCLA
Locking set for DCE and RCE cabinet front/rear doors and side panels	2x barrels and 2x side panel locks + keys	Key	E15LS0202KA
Lock barrel, half cylindrical for DCE and RCE cabinet front/rear door	1x half cylindrical barrel + 2x keys	Key	E15LB0102KA
Lockable fasteners for DCE and RCE cabinet side panels	2x fasteners + 2x keys	Key	E15LF0202KA

Continued on page C.1.9d



AT&T CenterLine RCE Server Cabinets Accessories (contd.)

Ordering Information - Top Cable Management

Description	Contents	Material	Size mm	Color	P/N
DCE&RCE Cabinet Support Element for Top Cable Management	2 depth supports, mounting material	Sheet Steel 2.0 mm	1000	Dark Gray RAL 7021	E15TSE1044A-GE
DCE&RCE Cabinet Support Element for Top Cable Management	2 depth supports, mounting material	Sheet Steel 2.0 mm	1200	Dark Gray RAL 7021	E15TSE1244A-GE
DCE&RCE Cabinet Side Brackets for Top Cable Management	2 cross walls, mounting material	Sheet Steel 1.0 mm	300x90	Dark Gray RAL 7021	E15CMB0390A-GE
DCE&RCE Cabinet Side Brackets for Top Cable Management	2 cross walls, mounting material	Sheet Steel 1.0 mm	600x90	Dark Gray RAL 7021	E15CMB0690A-GE
DCE&RCE Cabinet Side Brackets for Top Cable Management	2 cross walls, mounting material	Sheet Steel 1.0 mm	800x90	Dark Gray RAL 7022	E15CMB0890A-GE
DCE&RCE Cabinet Side Brackets for Top Cable Management	2 cross walls, mounting material	Sheet Steel 1.0 mm	2400x90	Dark Gray RAL 7023	E15CMB2490A-GE
DCE&RCE Cabinet Side Brackets for Top Cable Management	2 cross walls, mounting material	Sheet Steel 1.0 mm	3000x90	Dark Gray RAL 7024	E15CMB3090A-GE
DCE&RCE Cabinet Support Tray for Top Cable Management	1 center section, mounting material	Sheet Steel 1.5 mm	600x200	Dark Gray RAL 7021	E15CMT2625A-GE
DCE&RCE Cabinet Support Tray for Top Cable Management	1 center section, mounting material	Sheet Steel 1.5 mm	600x600	Dark Gray RAL 7021	E15CMT6625A-GE
DCE&RCE Cabinet Support Tray for Top Cable Management	1 center section, mounting material	Sheet Steel 1.5 mm	800x200	Dark Gray RAL 7021	E15CMT2825A-GE
DCE&RCE Cabinet Support Tray for Top Cable Management	1 center section, mounting material	Sheet Steel 1.5 mm	800x600	Dark Gray RAL 7021	E15CMT6825A-GE
DCE&RCE Cabinet Joining Tray for Top Cable Management	1 joining section, mounting material	Sheet Steel 1.5 mm	200	Dark Gray RAL 7021	E15CMJ2x25A-GE
DCE&RCE Cabinet Joining Tray for Top Cable Management	1 joining section, mounting material	Sheet Steel 1.5 mm	600	Dark Gray RAL 7021	E25CMJ6x25A-GE
DCE&RCE Cabinet End Bracket for Top Cable Management	2 end walls, mounting material	Sheet Steel 1.0 mm	200	Dark Gray RAL 7021	E15CMEB200A-GE
DCE&RCE Cabinet End Bracket for Top Cable Management	2 end walls, mounting material	Sheet Steel 1.0 mm	600	Dark Gray RAL 7021	E15CMEB600A-GE
DCE&RCE Cabinet Side Bracket Connecting Part for Top Cable Management	10 connecting parts, mounting material	Sheet Steel 1.5 mm	-	Dark Gray RAL 7021	E15CMCP010A-GE
DCE&RCE Cabinet Filler Panel for Top Cable Management	10 filler panels, mounting material	Sheet Steel 1.0 mm	229x183	Dark Gray RAL 7021	E15CMFP010A-GE
DCE&RCE Cabinet Cross Support for Top Cable Management	2 cross supports, mounting material	Sheet Steel 2.0 mm	600	Dark Gray RAL 7021	E15CMCS620A-GE
DCE&RCE Cabinet Cross Support for Top Cable Management	2 cross supports, mounting material	Sheet Steel 2.0 mm	800	Dark Gray RAL 7021	E15CMCS820A-GE
DCE&RCE Cabinet Cross Filler Panel for Top Cable Management	5 filler panels, mounting material	Sheet Steel 1.0 mm	200x200	Dark Gray RAL 7021	E15CMCFP22A-GE
DCE&RCE Cabinet Cross Filler Panel for Top Cable Management	5 filler panels, mounting material	Sheet Steel 1.0 mm	600x200	Dark Gray RAL 7021	E15CMCFP62A-GE
DCE&RCE Cabinet Cross Filler Panel for Top Cable Management	5 filler panels, mounting material	Sheet Steel 1.0 mm	600x600	Dark Gray RAL 7021	E15CMCFP66A-GE



CenterLine

AT&T CenterLine DCE Open Frame Systems

Description

High density 19" free standing cabling open frames for data centersConstruction materialBasic rack, extruded aluminum,
polished Corner piece, die-cast
aluminum Multifunctional braces
and 19" sheet steel angular
extrusions, zinc-passivatedSize options23U, 37U, 41U and 46U
(other sizes available)

Cable management options

Accessories

Standard & EU Directives Conformance

- Mechanical structure conforming to EIA/ECA-310-E, IEC 60297-3, DIN 41491
- Earthing according to VDE 0100 T 540
- Vibration test according to MIL-STD 810 E
- EU Directive 2011/65/EU (RoHS-2)

Mechanical Properties

Static load capacity

500 kg max.



Description	Size	Dimensions mm	Color	P/N
DCE Free standing 19" Double Cabling Open Frame	23U	600x600	Metal Shade	E416060023D-MT51
DCE Free standing 19" Double Cabling Open Frame	37U	600x600	Metal Shade	E416060037D-MT51
DCE Free standing 19" Double Cabling Open Frame	41U	600x600	Metal Shade	E416060041D-MT51
DCE Free standing 19" Double Cabling Open Frame	46U	600x600	Metal Shade	E416060046D-MT51
DCE Free standing 19" Double Cabling Open Frame	23U	600x800	Metal Shade	E416080023D-MT51
DCE Free standing 19" Double Cabling Open Frame	37U	600x800	Metal Shade	E416080037D-MT51
DCE Free standing 19" Double Cabling Open Frame	41U	600x800	Metal Shade	E416080041D-MT51
DCE Free standing 19" Double Cabling Open Frame	46U	600x800	Metal Shade	E416080046D-MT51
DCE Free standing 19" Double Cabling Open Frame	23U	800x600	Metal Shade	E418060023D-MT51
DCE Free standing 19" Double Cabling Open Frame	37U	800x600	Metal Shade	E418060037D-MT51
DCE Free standing 19" Double Cabling Open Frame	41U	800x600	Metal Shade	E418060041D-MT51
DCE Free standing 19" Double Cabling Open Frame	46U	800x600	Metal Shade	E418060046D-MT51
DCE Free standing 19" Double Cabling Open Frame	23U	800×800	Metal Shade	E418080023D-MT51
DCE Free standing 19" Double Cabling Open Frame	37U	800×800	Metal Shade	E418080037D-MT51
DCE Free standing 19" Double Cabling Open Frame	41U	800×800	Metal Shade	E418080041D-MT51
DCE Free standing 19" Double Cabling Open Frame	46U	800x800	Metal Shade	E418080046D-MT51



DCE Managed PDUs

AT&T Cabling Systems DCE Fixed & Modular Managed Power Distribution Units (PDUs) provide a unique solution for reliable energy demand in data centers. AT&T Cabling Systems DCE PDUs are designed in 2 versions: Managed Fixed Vertical PDUs and Managed Modular PDUs.

Key Advantages of AT&T Cabling Systems DCE Managed Fixed Vertical PDUs

High availability

- Adaptive Architecture
- Robust design and Proactive notifications
- Designed for ensured distribution
- Optimized Energy & Capacity Management
- Highly accurate metering
- Lowest energy consumption
- Centralized reports
- Simplified Integration with Management Tools
- Simple fit into most enterprise networks
- Out of band management
- Part of IT Access and Control / DCIM solution
- Easier Physical & Electrical Integration
- Pre-installation in AT&T Cabling Systems Rack Solutions
- Special DCE Rack fastening w/o tools
- One stop shop for all configurations



Key Advantages of AT&T Cabling Systems DCE Managed Modular Vertical PDUs

High availability

- Highly Efficient data center management and power consumption
- The operating software has module and sensor auto-detect function
- Mobile display for reading all MPX data on the rack
- Extremely low MPX system power loss
- Optical slot space display

Maximum power

- Max. power of 28 kVA per bar at an operating temperature up to 55°C
- Single IP address for up to 4 MPX or 24 output modules.
- Different plug & play sensors
- Max. power of 13.8 kVA with 3 modules
- Measuring accuracy of 1% at the output level

Maximum flexibility and scalability

- Configurable modules according to the requirements (including the feed module)
- "Hot swappable" during operation
- Swappable input module (1 to 3-phase, max. 63 Amps per phase)

Maximum security and availability

- Redundant power supply for control electronics
- Integrated data bus on the bus bar (no more cable breaks)
- No external control electronics
- Problems can be detected before failure occur by measuring the neutral conductor and crest factor







CenterLine

AT&T CenterLine DCE Managed Fixed Vertical Power Distribution Units (PDUs)

Description

DCE Managed Fixed power distribution unit for rack power enhanced metering in data centers Nominal input voltage Rated current 32A Load capacity 7.4 kVA Power plug type Output sockets Power metering Environmental sensor sockets Circuit breakers

230V AC 1-Phase, 400V AC 3-Phase IEC 60309 with 3 meters line cord 18xC13 and 6xC19 IEC 60320 sockets PDU level, individual branch-circuit level and individual socket level **Optional 3-zone temperature** Humidity and air-flow sensors (RJ11) 4 dry-contacts for additional sensors 16A individual branch circuit level User defined and automatic system alarms for all monitored parameters

Standard & EU Directives Conformance

- EN-55022 Class B (EMC)
- EU 2006/95/EC (LVD)
- EU 2011/65/EU (RoHS-2)
- IEC 60950 Para. 2.1 (Electrical safety)

Mechanical Properties

Mounting

Alarms

Input Power Options North America

Input Power Options International Input Wiring Options

Max. Capacity North America 17.2 kW Max. Capacity International **Outlet Options**

Maximum Outlets

Maximum Operating Temp. Range Storage Temperature Range Relative Humidity **Overcurrent Protection**

Universal Mounting bracket Ability to ship rack PDU pre-installed in AT&T Cabling Systems Racks 100 - 120V 1-ph 20A/30A 200 - 240V 1-ph 20/30A 200 - 240V 3-ph 20/30/50/60A 208/120V 3-ph 20/30A 415V/240V 3-ph 20A/30A 230V 1-ph 16A/32A 230/400V 3-ph 16A/32A/63A 10 ft. pluggable power cord or Hardwired 22.2 kW NEMA 5-20; IEC 320C13 IEC 320 C19 Locking capability on all outlets Strip Metered: 42 Outlet Metered and/or Switched: 24 0°C to 60°C

Pre-installed Tool-Less brackets

-25°C to 85°C 5% to 95% Software Electronic Overcurrent Protection 100% Rated 20A Branch Overcurrent Protection - Hydraulic Magnetic **Circuit Breakers**





Continued on page C.2.1a

AT&T CenterLine DCE Managed Fixed Vertical Power Distribution Units (PDUs)(contd.)

Idle Power Consumption	3W - 5W
0U Units Width x Depth	56 mm x 50 mm
0U units Length	916 mm / 1004 mm / 1737 mm / 1827 mm
Agency Approvals	UL, CSA, CE, RoHS, REACH, FCC Class A, CB, WEEE, ISTA
Metering Levels	Aggregate, Branch, Phase, Outlet
Parameters Measured	Voltage, Current, kW, KVA, kWh, Power Factor, Crest Factor,
	Frequency
Metering Accuracy	+/-1%
Switching Capability	On, Off, Recycle, Lock, Unlock, Outlet Grouping Capability
Modularity	RPC2 communications module
Local Management	Onboard Display, Optional Local Display
Remote Management	Onboard Web Interface; CLI; SNMP; SSH;
	Telnet Integration with AT&T Cabling Systems ACS, AT&T
	Cabling Systems Universal Management Gateway & AT&T
	Cabling Systems MergePoint [™] Unity Integration with DSView [®] ,
	Rack Power Manager, Nform™ and the Trellis™ platform
SNMP version support	v1, v2 and v3
Authentication	Local
	Remote: Active Directory, LDAP, TACACS, Radius, Kerberos
Encryption	MD5, AES, DES

Ordering Information - PDU

Description	C13 Sockets	C19 Sockets	Phase & Voltage	Branch Circuit Breakers	Length mm	Metering	Switching	P/N
DCE Managed Power Distribution Unit (PDU) Tape B	30	6	1 phase, 230V	32A	1736.5	Input	No	H131P32306B-BK
DCE Managed Power Distribution Unit (PDU) Tape B	30	6	3 phase, 230/400V	16A	1736.5	Input	No	H133P16306B-BK
DCE Managed Power Distribution Unit (PDU) Tape B	30	6	3 phase, 230/400V	32A	1826.5	Input	No	H133P32306B-BK
DCE Managed Power Distribution Unit (PDU) Tape R	18	6	1 phase, 230V	32A	1736.5	Input and output	Output	H131P32186R-BK
DCE Managed Power Distribution Unit (PDU) Tape R	18	6	3 phase, 230/400V	16A	1736.5	Input and output	Output	H133P16186R-BK
DCE Managed Power Distribution Unit (PDU) Tape R	18	6	3 phase, 230/400V	32A	1736.5	Input and output	Output	H133P32186R-BK
DCE Managed Power Distribution Unit (PDU) Tape B	17	2	1 phase, 230V	16A	916.5	Input	No	H131P16172B-BK
DCE Managed Power Distribution Unit (PDU) Tape R	16	0	1 phase, 230V	16A	1004	Input and output	Output	H131P16160R-BK
DCE Managed Power Distribution Unit (PDU) Tape R	24	0	1 phase, 230V	32A	1736.5	Input and output	Output	H131P16240R-BK
DCE Managed Power Distribution Unit (PDU) Tape R	24	0	3 phase, 230/400V	16A	1736.5	Input and output	Output	H133P16240R-BK
DCE Managed Power Distribution Unit (PDU) Tape R	24	0	3 phase, 230/400V	32A	1736.5	Input and output	Output	H133P32240R-BK
DCE Managed Power Distribution Unit (PDU) Tape C	18	6	1 phase, 230V	32A	1736.5	Input	Output	H131P32186C-BK
DCE Managed Power Distribution Unit (PDU) Tape C	18	6	3 phase, 230/400V	16A	1736.5	Input	Output	H133P16186C-BK
DCE Managed Power Distribution Unit (PDU) Tape C	18	6	3 phase, 230/400V	32A	1736.5	Input	Output	H133P32186C-BK
DCE Managed Power Distribution Unit (PDU) Tape C	24	0	1 phase, 230V	32A	1736.5	Input	Output	H131P32240C-BK
DCE Managed Power Distribution Unit (PDU) Tape C	24	0	3 phase, 230/400V	16A	1736.5	Input	Output	H133P16240C-BK
DCE Managed Power Distribution Unit (PDU) Tape C	24	0	3 phase, 230/400V	32A	1736.5	Input	Output	H133P32240C-BK
DCE Managed Power Distribution Unit (PDU) Tape M	18	6	1 phase, 230V	32A	1736.5	Input and output	No	H131P32186M-BK
DCE Managed Power Distribution Unit (PDU) Tape M	18	6	3 phase, 230/400V	16A	1736.5	Input and output	No	H133P16186M-BK
DCE Managed Power Distribution Unit (PDU) Tape M	18	6	3 phase, 230/400V	32A	1736.5	Input and output	No	H133P32186M-BK
DCE Managed Power Distribution Unit (PDU) Tape M	24	0	1 phase, 230V	32A	1736.5	Input and output	No	H131P32240M-BK
DCE Managed Power Distribution Unit (PDU) Tape M	24	0	3 phase, 230/400V	16A	1736.5	Input and output	No	H133P16240M-BK



CenterLine

AT&T CenterLine DCE Managed Modular Vertical Power Distribution Units (PDUs)

Description

DCE Managed Modular power distribution unit for rack power enhanced metering in data centers

Nominal input voltage Rated current Load capacity Power plug type Output sockets Power metering

Environmental sensor sockets Circuit breakers Alarms 230V AC 1-Phase, 400V AC 3-Phase 32A 7.4 kVA IEC 60309 with 3 meters line cord 18xC13 and 6xC19 IEC 60320 sockets PDU level, individual branch-circuit level and individual socket level Optional 3-zone temperature Humidity and air-flow sensors (RJ11) 4 dry-contacts for additional sensors 16A individual branch circuit level User defined and automatic system alarms for all monitored parameters

Standard & EU Directives Conformance

- EN-55022 Class B (EMC)
- EU 2006/95/EC (LVD)
- EU 2011/65/EU (RoHS-2)
- IEC 60950 Para. 2.1 (Electrical safety)

Features and Properties

Mounting

Input Power Options North America

Input Power Options230/ 1-International230/400Input Wiring Options10 ft. plMax. Capacity North America17.2 kWMax. Capacity International27.7 kWOutlet OptionsNEMA 50

Maximum Outlets

Maximum Operating Temp. Range Storage Temperature Range Relative Humidity Overcurrent Protection Pre-installed Tool-Less brackets Universal Mounting bracket Ability to ship rack PDU pre-installed in AT&T Cabling Systems Racks 100 - 120V 1-ph 20A/30A 200 - 240V 1-ph 20/30A 200 - 240V 3-ph 20/30/50/60A 208/120V 3-ph 20/30A 415V/240V 3-ph 20A/30A 230V 1-ph 16A/32A 230/400V 3-ph 16A/32A/63A 10 ft. pluggable power cord 17.2 kW

27.7 kW NEMA 5-20; IEC 320C13; IEC 320 C19; Schuko; French UTE; Schuko; Switzerland CH SEV 1011; GST 18 Basic BRM's: 42

Rack PDU Metered BRM's: 36 Outlet Metered & Switched BRM's: 36 0°C to 55°C

-25°C to 85°C 5% to 95%

Software Electronic Overcurrent Protection 100% Rated 20A Branch Overcurrent Protection - Hydraulic Magnetic Circuit Breakers





AT&T CenterLine

Continued on page C.2.2b

DCE Managed Modular Vertical Power Distribution Units (PDUs)(contd.)

Idle Power Consumption	3W - 22W
0U Units Width x Depth	75 mm x 104 mm
0U units Length	1035 mm / 1880 mm
Agency Approvals	UL, CSA, CE, RoHS, REACH, FCC Class A, CB, WEEE, ISTA
Metering Levels	Aggregate, Branch, Phase, Outlet
Parameters Measured	Volts, Current, kW, KVA, kWh, Power Factor, Crest Factor, Frequency
Metering Accuracy	+/-1%
Switching Capability	On, Off, Recycle, Lock, Unlock, Outlet Grouping Capability
Modularity	Power Entry Module Branch Receptacle Module RPC2™ communications module
Local Management	Optional Local Display
Remote Management	Onboard Web Interface; CLI; SNMP; SSH; Telnet Integration with AT&T Cabling Systems ACS, AT&T Cabling Systems Universal Management Gateway & AT&T Cabling Systems MergePoint [™] Unity Integration with DSView [®] , Rack Power Manager, Nform [™] and the Trellis [™] platform
SNMP version support	v1, v2 and v3
Authentication	Local
	Remote: Active Directory, LDAP, TACACS, Radius, Kerberos
Encryption	MD5, AES, DES

ST&T

AT&T CenterLine

DCE Managed Modular Vertical Power Distribution Units (PDUs)(contd.)

Ordering Information - PDU

Description	C13 Sockets	C19 Sockets	Phase & Voltage	Branch Circuit Breakers	Length mm	Metering	Switching	P/N
DCE Modular Power Distribution Unit (PDU) Chassis	-	-	1 phase, 230V. 3 phase, 230/400V	-	1880	-	-	H163631880A-MT
DCE Modular Power Distribution Unit (PDU) Chassis	-	-	1 phase, 230V. 3 phase, 230/400V	-	1035	-	-	H163631035A-MT
Monitored Power Supply Module for DCE Modular PDU	-	-	1 Phase, 230V, 1xIEC 60309 Blue Plug, Black	32A	266	Input	No	H161P32000P-BK
Monitored Power Supply Module for DCE Modular PDU	-	-	3 Phase, 230/400V, 1xIEC 60309 Red Plug, Black	16A	266	Input	No	H163P16000P-BK
Monitored Power Supply Module for DCE Modular PDU	-	-	3 Phase, 230/400V, 1xIEC 60309 Red Plug, Black	32A	266	Input	No	H163P32000P-BK
Elementary Power Output Module for DCE Modular PDU	7	-	1 phase, 230V, Line 1	20A	266	Output	No	H1610713L1E-BK
Elementary Power Output Module for DCE Modular PDU	7	-	1 phase, 230V, Line 2	20A	266	Output	No	H1610713L2E-BK
Elementary Power Output Module for DCE Modular PDU	7	-	1 phase, 230V, Line 3	20A	266	Output	No	H1610713L3E-BK
Elementary Power Output Module for DCE Modular PDU	-	4	1 phase, 230V, Line 1	20A	266	Output	No	H1616419L1E-BK
Elementary Power Output Module for DCE Modular PDU	-	4	1 phase, 230V, Line 2	20A	266	Output	No	H1616419L2E-BK
Elementary Power Output Module for DCE Modular PDU	-	4	1 phase, 230V, Line 3	20A	266	Output	No	H1616419L3E-BK
Managed Power Output Module for DCE Modular PDU	6	-	1 phase, 230V, Line 1	20A	266	Output	Yes	H1610613L1R-BK
Managed Power Output Module for DCE Modular PDU	6	-	1 phase, 230V, Line 2	20A	266	Output	Yes	H1610613L2R-BK
Managed Power Output Module for DCE Modular PDU	6	-	1 phase, 230V, Line 3	20A	266	Output	Yes	H1610613L3R-BK
Managed Power Output Module for DCE Modular PDU	4	4	1 phase, 230V, Line 1	20A	266	Output	Yes	H1616419L1R-BK
Managed Power Output Module for DCE Modular PDU	4	4	1 phase, 230V, Line 2	20A	266	Output	Yes	H1616419L2R-BK
Managed Power Output Module for DCE Modular PDU	4	4	1 phase, 230V, Line 3	20A	266	Output	Yes	H1616419L3R-BK
Monitored Power Output Module for DCE Modular PDU	6	-	1 phase, 230V, Line 1	20A	266	Output	No	H1610613L1B-BK
Monitored Power Output Module for DCE Modular PDU	6	-	1 phase, 230V, Line 2	20A	266	Output	No	H1610613L2B-BK
Monitored Power Output Module for DCE Modular PDU	6	-	1 phase, 230V, Line 3	20A	266	Output	No	H1610613L3B-BK
Monitored Power Output Module for DCE Modular PDU	4	4	1 phase, 230V, Line 1	20A	266	Output	No	H1616419L1B-BK
Monitored Power Output Module for DCE Modular PDU	4	4	1 phase, 230V, Line 2	20A	266	Output	No	H1616419L2B-BK
Monitored Power Output Module for DCE Modular PDU	4	4	1 phase, 230V, Line 3	20A	266	Output	No	H1616419L3B-BK
Basic Display Module for DCE Modular PDU	-	-	-	-	-	-	-	H16BDM1000A-BK
Fixed Temperature Sensor for DCE Modular PDU	-	-	-	-	-	-	-	H16F1T0003A-NS
Modular Triple Temperature and Single Humidity Sensor for DCE Modular PDU	-	-	-	-	-	-	-	H16M3T1H02A-NS
Modular Triple Dry-Contact Sensor Inputs for DCE Modular PDU	-	-	-	-	-	-	-	H16M3D0002A-NS
Modular Double Door Contact Module for DCE Modular PDU	-	-	-	-	-	-	-	H16M2DC002A-NS
Modular Single Temperature Sensor for DCE Modular PDU	-	-	-	-	-	-	-	H16M1T0005A-NS
Fixed Triple Temperature Sensor for DCE Modular PDU	-	-	-	-	-	-	-	H16F3T0005A-NS
Fixed Triple Temperature and Single Humidity Sensors for DCE Modular PDU	-	-	-	-	-	-	-	H16F3T1H05A-NS
Door Contact Switch	-	-	-	-	-	-	-	F15DCS0000A-NS



Rack Power Manager

Applications

- Gather and aggregate power information from a variety of different PDUs
- Capture power usage at any moment in time and power usage (kWh) over a period of time
- Environmental monitoring
- Power management as well as power control to individual outlets
- Aggregation and reporting at all levels within the data center
- Calculate costs to power a rack (racks or entire data center) per moment, per day or over time

Benefits

- Consolidated user interface for centralized management
- Monitor and measure energy consumption costs (per device)
- Real-time visibility into power usage to operate or manage power more efficiently
- Identify costs and trends to simplify power and cooling capacity planning
- Determine actual energy usage by department to create charge-back process
- Identify what activities can be moved to off peak times or virtualized servers
- Ability to set a maximum on power usage and threshold alerts to stay within budget
- Preemptive notifications and environmental alarms

Detailed Power and Environmental Information and Control at Your Fingertips

The AT&T Cabling Systems Rack Power Manager provides data centers with the ability to monitor and measure energy consumption, costs and trends from a single server to an entire data center. It simplifies power and cooling capacity planning and provides a consolidated view, including remote power control for individual server outlets. Through preemptive notification of rack-level power and environmental alarms, it empowers administrators with data to increase power usage efficiencies and maintain availability of IT assets. The AT&T Cabling Systems Rack Power Manager offers a combined interface for the management of your rack PDU infrastructure allowing you to seamlessly integrate it into your company's IT workflow.

Manage

The AT&T Cabling Systems Rack Power Manager provides a single, secure, browser-based interface to capture power usage at any moment in time and energy usage over a period of time. Visibility into energy consumption data helps IT to operate a more efficient data center, including providing these key features:

- Insight for capacity planning
- Total reading on power usage for better efficiency
- Leverage your intelligent PDU investment via one centralized interface
- Allocate costs of power based on actual usage by department
- Determine what activities can be moved to off-peak times
- Avoid budget overruns by setting a maximum threshold of power usage
- Balance of power usage for better efficiency and to maintain a consistently cool data center
- Preemptive notification and alarms for proactive power management
- · Single console for access and control to both physical and virtual environments

The AT&T Cabling Systems Rack Power Manager also enables it to calculate what it costs to power a rack





Access

The AT&T Cabling Systems Rack Power Manager helps data center administrators gain real-time access to power consumption and temperature alerts to minimize interruptions and increase uptime. The AT&T Cabling Systems Rack Power Manager also provides power management and reporting capabilities, offering detailed data to assist with data center power usage efficiencies (PUE).

Control

Server power consumption is highly dynamic. Additional equipment, if plugged in to the wrong location, can cause significant downtime and data loss because of power overloads. The AT&T Cabling Systems Rack Power Manager provides detailed, multiple-level power and environmental information at your fingertips to monitor overall power and energy consumption usage and costs, which allows for better capacity planning and helps maintain availability of IT assets.

Calculating Power and Energy Consumption Data with Access to Preemptive Notifications can Help IT Operate a more Efficient Data Center in a Variety of Ways:

- Help IT and the facilities department determine departmental power usage. For example, if all accounting servers are grouped together in the software, then facilities can determine what percentage of the monthly utility bill to charge accounting based on kWh used.
- Assist IT with capacity planning. IT can easily decide where to add new servers/racks in a data center. Additional equipment, if plugged in to the wrong location, can cause significant downtime and data loss because of power overloads.
- Help justify purchase of new equipment. A comparison of the energy cost differential between new versus old servers, for example, can help provide justification for replacement or to help with model/vendor selections.
- Determine what activities can be moved to off-peak times when energy costs less to purchase. Since IT can monitor power usage at any time, including off-peak times, IT can pull reports and compare historical data to determine how much power is being consumed in peak versus non-peak times. So if the report shows that certain racks spike power usage during certain times of the day, IT can investigate why and then move that activity to a time when the price per kWh costs less. Major utility companies offer industrial and corporate customers lower rates during non-peak times. IT could also consider moving that activity onto a virtualized server.
- Help get a total reading on power usage for the data center and set a maximum threshold of power usage. By setting alerts to know when the threshold is reached or exceeded, a decision can be made to move certain computing activities to non-peak times or to move activities to virtualized servers.
- Provide insight to help IT keep a balance of power usage for better efficiency. By identifying hot spots or times when activity spikes, drawing more power, IT can shift equipment or activities for better balance to maintain a consistently cool data center (less stress on cooling systems).
- Help IT know what electrical infrastructure to build in to a backup/DR site. The design can be based on real historical data rather than faceplate ratings or best-guess scenarios which result in overbuilding, leading to inefficiencies.
- Ensure availability by setting power and environmental-related thresholds and alerts. By getting preemptive notifications, IT can take action before issues happen.
- Help IT decide which applications to virtualize. Applications that aren't used much, but installed on servers that use a lot of power, are good candidates for virtualization. A server sitting idly can still draw as much as 50% of the power it draws when operational, so applications on underutilized servers should be first for virtualization consideration.

Specifications

Technical Specifications:

The AT&T Cabling Systems Rack Power Manager Management Software (Hub/Spoke) Minimum Requirements

a. Windows/Linux Dedicated (Physical) Server i. One or more 2+ GHz Multi-Core CPU

- ii 6+ GB RAM
- iii. 250+ GB HDD
- b. 1gbt/10gbps LAN

The AT&T Cabling Systems Rack Power Manager Requires One of the Following Operating Systems:

Microsoft[®] Windows Server 2003 (x64), 2003 R2 (x64), 2008 (x64), 2008 R2 (x64)

- SuSe Linux[®] Enterprise Server 10 (x64), 11(x64)
- RedHat[®] Enterprise Server 4 (x64), 5.4 (x64)

Client-Supported Operating System*

*32-bit platforms only unless otherwise specified -Windows XP Home Edition or Professional (32-bit and 64-bit) -Windows 2003 Server Standard, Enterprise or Web Edition -Windows 2008 Server Standard, Enterprise or Web Edition -Windows Vista Ultimate or Business (32-bit and 64-bit) -Red Hat Enterprise Linux, Version 4 (AS, ES and WS products) -Red Hat Enterprise Linux, Version 5 -Novell® SUSE Linux (x86) Enterprise Server 10 -Novell[®] SUSE Linux (x86) Enterprise Server 11 -Macintosh® OS X version 10.4x -Macintosh OS X version 10.5 (32-bit and 64-bit)

Browser Support

-Internet Explorer® version 6.0 SP1, 7, or 8 (Windows operating systems only) -Firefox® versions 2 to 3.5 (version 1.5 required for Mac OS) **Note:** If you are using Firefox, the Video Viewer and the Telnet Viewer require Java



Copper Cabling Data-Center Solutions

AT&T Cabling Systems



CenterLine

AT&T CenterLine Category 5e Plug & Play Unshielded RJ21 (Telco) to RJ45 Plug & Play Patch Panels

Description

24 or 48 port unshielded panels (used with RJ21/RJ2125-Pair cords)Frequency range1-100 MHzPanel front4 or 8 modules of 6 RJ45 jacksPanel back4 or 8 RJ21 (Telco) socketsColorBlackShieldNoneHousingHigh impact FR compoundFrameGalvanized steel

Standard & EU Directives Conformance

- Category 5e connecting hardware acc. to ANSI/TIA-568.2-D
- UL94 V-0 flame test
- EU Directive 2011/65/EU (RoHS-2)

Mechanical & Electrical Properties

Port contacts Insertion/Extraction durability Operating temperature	50µ-Inch gold plating 750 cycles -20 to +60C at 5-95% RH (non condensing)
Contact resistance	20 mOhm max.
DC resistance	0.2 Ohm max.
Voltage rating	72 Vdc max.
Insulation resistance	10 MegaOhm min. @500 Vdc



Description	Color	Modules	Units	Size mm	Packaging	P/N
24 port RJ21/RJ45 Unshielded CAT5e 19" Patch Panel	Black	4	1U	44.4x483	1/Box	13U5ENV024A-BK1U
48 port RJ21/RJ45 Unshielded CAT5e 19" Patch Panel	Black	8	2U	89.0x483	1/Box	13U5ENV048A-BK2U



CenterLine

AT&T CenterLine Category 5e Plug & Play Unshielded 100 Ohm RJ21 Plug & Play Telco Cords

Description

25-Pair unshielded RJ21/RJ21 Telco cords (used with Telco panels) Frequency range Conductor Insulation Color code Jacket Standard jacket color Standard boot color Length

1-100 MHz 24 AWG solid bare copper PO ANSI/TIA-568.2-D PVC or LS0H Gray (other colors available) Black (other colors available) 10-50m (other lengths available)

Standard & EU Directives Conformance

- Category 5e connecting hardware according to ANSI/TIA-568.2-D
- UL94 V-0 flame test
- EU Directive 2011/65/EU (RoHS-2)

Mechanical & Electrical Properties

Impedance Pin-pair assignment Plug contacts Plug housing Operating temperature Voltage rating Ampacity Insulation resistance

100 Ohm nom. T568B 50µ-Inch Gold plating FR Polycarbonate -20 to +60C 72 Vdc max. 1.0 Ampere max. 500 MegaOhm min. @500 Vdc



Description	Length m	Jacket Color	Plugs	Packaging	P/N
25-Pair 24 AWG RJ21/RJ21 Unshielded CAT5e PVC Telco Cord	10	Gray	Telco 120°	1/Bag	14U5EVA100T-GY61
25-Pair 24 AWG RJ21/RJ21 Unshielded CAT5e PVC Telco Cord	20	Gray	Telco 120°	1/Bag	14U5EVA200T-GY61
25-Pair 24 AWG RJ21/RJ21 Unshielded CAT5e PVC Telco Cord	30	Gray	Telco 120°	1/Bag	14U5EVA300T-GY61
25-Pair 24 AWG RJ21/RJ21 Unshielded CAT5e PVC Telco Cord	40	Gray	Telco 120°	1/Bag	14U5EVA400T-GY61
25-Pair 24 AWG RJ21/RJ21 Unshielded CAT5e PVC Telco Cord	50	Gray	Telco 120°	1/Bag	14U5EVA500T-GY61
25-Pair 24 AWG RJ21/RJ21 Unshielded CAT5e LS0H Telco Cord	10	Gray	Telco 120°	1/Bag	14U5EHA100T-GY61
25-Pair 24 AWG RJ21/RJ21 Unshielded CAT5e LS0H Telco Cord	20	Gray	Telco 120°	1/Bag	14U5EHA200T-GY61
25-Pair 24 AWG RJ21/RJ21 Unshielded CAT5e LS0H Telco Cord	30	Gray	Telco 120°	1/Bag	14U5EHA300T-GY61
25-Pair 24 AWG RJ21/RJ21 Unshielded CAT5e LS0H Telco Cord	40	Gray	Telco 120°	1/Bag	14U5EHA400T-GY61
25-Pair 24 AWG RJ21/RJ21 Unshielded CAT5e LS0H Telco Cord	50	Gray	Telco 120°	1/Bag	14U5EHA500T-GY61
25-Pair 24 AWG RJ21/RJ21 Unshielded CAT5e PVC Telco Cord	10	Gray	Telco 180°	1/Bag	14U5EVA100S-GY61
25-Pair 24 AWG RJ21/RJ21 Unshielded CAT5e PVC Telco Cord	20	Gray	Telco 180°	1/Bag	14U5EVA200S-GY61
25-Pair 24 AWG RJ21/RJ21 Unshielded CAT5e PVC Telco Cord	30	Gray	Telco 180°	1/Bag	14U5EVA300S-GY61
25-Pair 24 AWG RJ21/RJ21 Unshielded CAT5e PVC Telco Cord	40	Gray	Telco 180°	1/Bag	14U5EVA400S-GY61
25-Pair 24 AWG RJ21/RJ21 Unshielded CAT5e PVC Telco Cord	50	Gray	Telco 180°	1/Bag	14U5EVA500S-GY61
25-Pair 24 AWG RJ21/RJ21 Unshielded CAT5e LS0H Telco Cord	10	Gray	Telco 180°	1/Bag	14U5EHA100S-GY61
25-Pair 24 AWG RJ21/RJ21 Unshielded CAT5e LS0H Telco Cord	20	Gray	Telco 180°	1/Bag	14U5EHA200S-GY61
25-Pair 24 AWG RJ21/RJ21 Unshielded CAT5e LS0H Telco Cord	30	Gray	Telco 180°	1/Bag	14U5EHA300S-GY61
25-Pair 24 AWG RJ21/RJ21 Unshielded CAT5e LS0H Telco Cord	40	Gray	Telco 180°	1/Bag	14U5EHA400S-GY61
25-Pair 24 AWG RJ21/RJ21 Unshielded CAT5e LS0H Telco Cord	50	Gray	Telco 180°	1/Bag	14U5EHA500S-GY61



AT&T CenterLine Category 5e

Unshielded 100 Ohm RJ45 Plug & Play Pre-Terminated Cassettes Description

6-Port unshielded RJ45 pre-terminated cassettes in 24-Port panel

Frequency range Cassette contents Panel formation Panel and cassette color Cable bundles

Conductor Insulation Jacket Standard jacket color Number of 4-pair cables Bundle jacket 1-100 MHz 6 unshielded CAT5e RJ45 jacks 4 cassettes in 1U Black (other colors available)

24 AWG solid bare copper PO LSOH Gray (other colors available) 6 in each cassette LSOH black polyester braid secured with shrink-tubes 5-50m (other lengths available)

Length

Standard & EU Directives Conformance

- Category 5e according to ISO/IEC 11801
- Category 5e according to EN 50173
- Category 5e according to ANSI/TIA-568.2-D
- IEC 60332-1 (cable) and UL94 V-0 flame tests (construction materials)
- IEC 60754 & IEC 61034
- EU Directive 2011/65/EU (RoHS-2)

Mechanical & Electrical Properties

Impedance Pin-pair assignment Jacks contacts Jacks housing Jacks color 100 Ohm nom. T568B 50μ-Inch Gold plating High impact FR compound White/Lt. Blue (other colors available) -20 to +60C 72 Vdc max. 1.0 Ampere max. 500 MegaOhm min. @500 Vdc

Insulation resistance Ordering Information

Operating temperature

Voltage rating

Ampacity

Description	Bundle Length m	Remote Termination	Packaging	P/N
24-Port Unshielded Blank 19" Panel for 4 Pre-Terminated Cassettes	N/A	N/A	1/Box	13U00NV024P-BK51
6-Port Unshielded CAT5e Plug & Play RJ45 Cassette to Cassette	10	RJ45 Cassette	1/Bag	32U5EHA100C-BK61
6-Port Unshielded CAT5e Plug & Play RJ45 Cassette to Cassette	20	RJ45 Cassette	1/Bag	32U5EHA200C-BK61
6-Port Unshielded CAT5e Plug & Play RJ45 Cassette to Cassette	30	RJ45 Cassette	1/Bag	32U5EHA300C-BK61
6-Port Unshielded CAT5e Plug & Play RJ45 Cassette to Cassette	40	RJ45 Cassette	1/Bag	32U5EHA400C-BK61
6-Port Unshielded CAT5e Plug & Play RJ45 Cassette to Cassette	50	RJ45 Cassette	1/Bag	32U5EHA500C-BK61
6-Port Unshielded CAT5e Plug & Play RJ45 Cassette to Jacks	10	6 RJ45 Jack	1/Bag	32U5EHA100R-BK61
6-Port Unshielded CAT5e Plug & Play RJ45 Cassette to Jacks	20	6 RJ45 Jack	1/Bag	32U5EHA200R-BK61
6-Port Unshielded CAT5e Plug & Play RJ45 Cassette to Jacks	30	6 RJ45 Jack	1/Bag	32U5EHA300R-BK61
6-Port Unshielded CAT5e Plug & Play RJ45 Cassette to Jacks	40	6 RJ45 Jack	1/Bag	32U5EHA400R-BK61
6-Port Unshielded CAT5e Plug & Play RJ45 Cassette to Jacks	50	6 RJ45 Jack	1/Bag	32U5EHA500R-BK61
6-Port Unshielded CAT5e Plug & Play RJ45 Cassette to Plugs	5	6 RJ45 Plugs	1/Bag	32U5EHA050L-BK61
6-Port Unshielded CAT5e Plug & Play RJ45 Cassette to Plugs	10	6 RJ45 Plugs	1/Bag	32U5EHA100L-BK61
6-Port Unshielded CAT5e Plug & Play RJ45 Cassette to Plugs	15	6 RJ45 Plugs	1/Bag	32U5EHA150L-BK61
6-Port Unshielded CAT5e Plug & Play RJ45 Cassette to Plugs	20	6 RJ45 Plugs	1/Bag	32U5EHA200L-BK61
6-Port Unshielded CAT5e Plug & Play RJ45 Cassette to Plugs	25	6 RJ45 Plugs	1/Bag	32U5EHA250L-BK61
6-Port Unshielded CAT5e Plug & Play RJ45 Cassette to Open	10	None	1/Bag	32U5EHA100E-BK61
6-Port Unshielded CAT5e Plug & Play RJ45 Cassette to Open	20	None	1/Bag	32U5EHA200E-BK61
6-Port Unshielded CAT5e Plug & Play RJ45 Cassette to Open	30	None	1/Bag	32U5EHA300E-BK61
6-Port Unshielded CAT5e Plug & Play RJ45 Cassette to Open	40	None	1/Bag	32U5EHA400E-BK61
6-Port Unshielded CAT5e Plug & Play RJ45 Cassette to Open	50	None	1/Bag	32U5EHA500E-BK61



AT&T Cabling Systems

AT&T CenterLine Category 5e

Shielded 100 Ohm RJ45 Plug & Play Pre-Terminated Cassettes Description

6-Port shielded RJ45 F/UTP pre-terminated cassettes in 24-Port panel

Frequency range Cassette contents Panel formation Panel and cassette color

Cable bundles

Conductor Insulation Shield Drain wire Jacket Standard jacket color Number of 4-pair cables Bundle jacket 1-100 MHz 6 shielded CAT5e RJ45 jacks 4 cassettes in 1U Black (other colors available)

24 AWG solid bare copper PO Overall aluminum foil Single tin-coated copper solid wire LSOH Gray (other colors available) 6 in each cassette LSOH black polyester braid secured with shrink-tubes 5-50m (other lengths available)

Length

Standard & EU Directives Conformance

- Category 5e according to ISO/IEC 11801
- Category 5e according to EN 50173
- Category 5e according to ANSI/TIA-568.2-D
- IEC 60332-1 (cable) and UL94 V-0 flame tests (construction materials)
- IEC 60754 & IEC 61034
- EU Directive 2011/65/EU (RoHS-2)

Mechanical & Electrical Properties

Impedance Pin-pair assignment Jacks contacts Jacks housing Jack shield Operating temperature Voltage rating Ampacity Insulation resistance 100 Ohm nom. T568B 50μ-Inch Gold plating High impact FR compound Die-cast metal case -20 to +60C 72 Vdc max. 1.0 Ampere max. 500 MegaOhm min. @500 Vdc

Description	Bundle Length m	Remote Termination	Packaging	P/N
24-Port Shielded Blank 19" Panel for 4 Pre-Terminated Cassettes	N/A	N/A	1/Box	13S00NV024P-BK51
6-Port Shielded CAT5e Plug & Play RJ45 Cassette to Cassette	10	RJ45 Cassette	1/Bag	32S5EHA100C-BK61
6-Port Shielded CAT5e Plug & Play RJ45 Cassette to Cassette	20	RJ45 Cassette	1/Bag	32S5EHA200C-BK61
6-Port Shielded CAT5e Plug & Play RJ45 Cassette to Cassette	30	RJ45 Cassette	1/Bag	32S5EHA300C-BK61
6-Port Shielded CAT5e Plug & Play RJ45 Cassette to Cassette	40	RJ45 Cassette	1/Bag	32S5EHA400C-BK61
6-Port Shielded CAT5e Plug & Play RJ45 Cassette to Cassette	50	RJ45 Cassette	1/Bag	32S5EHA500C-BK61
6-Port Shielded CAT5e Plug & Play RJ45 Cassette to Jacks	10	6 RJ45 Jack	1/Bag	32S5EHA100R-BK61
6-Port Shielded CAT5e Plug & Play RJ45 Cassette to Jacks	20	6 RJ45 Jack	1/Bag	32S5EHA200R-BK61
6-Port Shielded CAT5e Plug & Play RJ45 Cassette to Jacks	30	6 RJ45 Jack	1/Bag	32S5EHA300R-BK61
6-Port Shielded CAT5e Plug & Play RJ45 Cassette to Jacks	40	6 RJ45 Jack	1/Bag	32S5EHA400R-BK61
6-Port Shielded CAT5e Plug & Play RJ45 Cassette to Jacks	50	6 RJ45 Jack	1/Bag	32S5EHA500R-BK61
6-Port Shielded CAT5e Plug & Play RJ45 Cassette to Plugs	5	6 RJ45 Plugs	1/Bag	32S5EHA050L-BK61
6-Port Shielded CAT5e Plug & Play RJ45 Cassette to Plugs	10	6 RJ45 Plugs	1/Bag	32S5EHA100L-BK61
6-Port Shielded CAT5e Plug & Play RJ45 Cassette to Plugs	15	6 RJ45 Plugs	1/Bag	32S5EHA150L-BK61
6-Port Shielded CAT5e Plug & Play RJ45 Cassette to Plugs	20	6 RJ45 Plugs	1/Bag	32S5EHA200L-BK61
6-Port Shielded CAT5e Plug & Play RJ45 Cassette to Plugs	25	6 RJ45 Plugs	1/Bag	32S5EHA250L-BK61
6-Port Shielded CAT5e Plug & Play RJ45 Cassette to Open	10	None	1/Bag	32S5EHA100E-BK61
6-Port Shielded CAT5e Plug & Play RJ45 Cassette to Open	20	None	1/Bag	32S5EHA200E-BK61
6-Port Shielded CAT5e Plug & Play RJ45 Cassette to Open	30	None	1/Bag	32S5EHA300E-BK61
6-Port Shielded CAT5e Plug & Play RJ45 Cassette to Open	40	None	1/Bag	32S5EHA400E-BK61
6-Port Shielded CAT5e Plug & Play RJ45 Cassette to Open	50	None	1/Bag	32S5EHA500E-BK61





AT&T CenterLine Category 5e Plug & Play Unshielded 100 Ohm RJ45 Plug & Play Pre-Terminated Cable Bundles Description

6-Port unshielded R45/RJ45 pre-terminated cable bundles

Frequency range Termination Conductor Insulation Jacket Standard jacket color Number of 4-pair cables Bundle jacket 1-100 MHz CAT5e unshielded jacks 24 AWG solid bare copper PO PVC or LS0H Gray (other colors available) 6 LS0H black polyester braid secured with shrink-tubes 10-50m (other lengths available)

Length

Standard & EU Directives Conformance

- Category 5e according to ISO/IEC 11801
- Category 5e according to EN 50173
- Category 5e according to ANSI/TIA-568.2-D
- IEC 60332-1 (cable) and UL94 V-0 flame tests (construction materials)
- EU Directive 2011/65/EU (RoHS-2)

Mechanical & Electrical Properties

Impedance Pin-pair assignment Jacks contacts Jacks housing Jacks color 100 Ohm nom. T568B 50μ-Inch Gold plating High impact FR compound White/Lt. Blue (other colors available) -20 to +60C 72 Vdc max. 1.0 Ampere max. 500 MegaOhm min. @500 Vdc



Ordering Information

Insulation resistance

Operating temperature

Voltage rating

Ampacity

Description	Bundle Length m	Jacket Type	Jacks	Packaging	P/N
6-Port Unshielded CAT5e Plug & Play Pre-Terminated Bundle	10	PVC	RJ45	1/Box	33U5EVA100R-GY51
6-Port Unshielded CAT5e Plug & Play Pre-Terminated Bundle	20	PVC	RJ45	1/Box	33U5EVA200R-GY51
6-Port Unshielded CAT5e Plug & Play Pre-Terminated Bundle	30	PVC	RJ45	1/Box	33U5EVA300R-GY51
6-Port Unshielded CAT5e Plug & Play Pre-Terminated Bundle	40	PVC	RJ45	1/Box	33U5EVA400R-GY51
6-Port Unshielded CAT5e Plug & Play Pre-Terminated Bundle	50	PVC	RJ45	1/Box	33U5EVA500R-GY51
6-Port Unshielded CAT5e Plug & Play Pre-Terminated Bundle	10	LS0H	RJ45	1/Box	33U5EHA100R-GY51
6-Port Unshielded CAT5e Plug & Play Pre-Terminated Bundle	20	LS0H	RJ45	1/Box	33U5EHA200R-GY51
6-Port Unshielded CAT5e Plug & Play Pre-Terminated Bundle	30	LS0H	RJ45	1/Box	33U5EHA300R-GY51
6-Port Unshielded CAT5e Plug & Play Pre-Terminated Bundle	40	LS0H	RJ45	1/Box	33U5EHA400R-GY51
6-Port Unshielded CAT5e Plug & Play Pre-Terminated Bundle	50	LS0H	RJ45	1/Box	33U5EHA500R-GY51



CenterLine

AT&T CenterLine Category 5e Plug & Play Shielded 100 Ohm RJ45 Plug & Play Pre-Terminated Bundles Description

6-Port shielded R45/RJ45 F/UTP pre-terminated cable bundles Frequency range Termination Conductor Insulation Shield Drain wire Jacket Standard jacket color Number of 4-pair cables Bundle jacket

1-100 MHz Shielded CAT5e RJ45 jacks 24 AWG solid bare copper PO Overall aluminum foil Single tin-coated copper solid wire PVC or LS0H Gray (other colors available) 6 LSOH black polyester braid secured with shrink-tubes 10-50m (other lengths available)

Length

Standard & EU Directives Conformance

- Category 5e according to ISO/IEC 11801
- Category 5e according to EN 50173
- Category 5e according to ANSI/TIA-568.2-D
- IEC 60332-1 (cable) and UL94 V-0 flame tests (construction materials)
- EU Directive 2011/65/EU (RoHS-2)

Mechanical & Electrical Properties

Impedance Pin-pair assignment Jacks contacts Jacks housing Jacks shield Jacks color

Operating temperature Voltage rating Ampacity Insulation resistance

100 Ohm nom. T568B 50µ-Inch Gold plating High impact FR compound Die-cast metal case Metal/Lt. Blue (other colors available) -20 to +60C 72 Vdc max. 1.0 Ampere max. 500 MegaOhm min. @500 Vdc

Description	Bundle Length m	Jacket Type	Jacks	Packaging	P/N
6-Port Shielded F/UTP CAT5e Plug & Play Pre-Terminated Bundle	10	PVC	RJ45	1/Box	33P5EVA100R-GY51
6-Port Shielded F/UTP CAT5e Plug & Play Pre-Terminated Bundle	20	PVC	RJ45	1/Box	33P5EVA200R-GY51
6-Port Shielded F/UTP CAT5e Plug & Play Pre-Terminated Bundle	30	PVC	RJ45	1/Box	33P5EVA300R-GY51
6-Port Shielded F/UTP CAT5e Plug & Play Pre-Terminated Bundle	40	PVC	RJ45	1/Box	33P5EVA400R-GY51
6-Port Shielded F/UTP CAT5e Plug & Play Pre-Terminated Bundle	50	PVC	RJ45	1/Box	33P5EVA500R-GY51
6-Port Shielded F/UTP CAT5e Plug & Play Pre-Terminated Bundle	10	LS0H	RJ45	1/Box	33P5EHA100R-GY51
6-Port Shielded F/UTP CAT5e Plug & Play Pre-Terminated Bundle	20	LS0H	RJ 45	1/Box	33P5EHA200R-GY51
6-Port Shielded F/UTP CAT5e Plug & Play Pre-Terminated Bundle	30	LS0H	RJ45	1/Box	33P5EHA300R-GY51
6-Port Shielded F/UTP CAT5e Plug & Play Pre-Terminated Bundle	40	LS0H	RJ 45	1/Box	33P5EHA400R-GY51
6-Port Shielded F/UTP CAT5e Plug & Play Pre-Terminated Bundle	50	LS0H	RJ45	1/Box	33P5EHA500R-GY51



CenterLine

AT&T CenterLine Category 6

Unshielded 100 Ohm RJ45 Plug & Play Pre-Terminated Cassettes Description

6-Port unshielded RJ45 pre-terminated cassettes in 24-Port panel

Frequency range Cassette contents Panel formation Panel and cassette color Cable bundles

Conductor Insulation Jacket Standard jacket color Number of 4-pair cables Bundle jacket 1-250 MHz 6 unshielded CAT6 RJ45 jacks 4 cassettes in 1U Black (other colors available)

23 AWG solid bare copper PO LSOH Gray (other colors available) 6 in each cassette LSOH black polyester braid secured with shrink-tubes 5-50m (other lengths available)

Length

Standard & EU Directives Conformance

- Category 6 according to ISO/IEC 11801
- Category 6 according to EN 50173
- Category 6 according to ANSI/TIA-568.2-D
- IEC 60332-1 (cable) and UL94 V-0 flame tests (construction materials)
- IEC 60754 & IEC 61034
- EU Directive 2011/65/EU (RoHS-2)

Mechanical & Electrical Properties

Impedance Pin-pair assignment Jacks contacts Jacks housing Operating temperature Voltage rating Ampacity Insulation resistance 100 Ohm nom. T568B 50μ-Inch Gold plating High impact FR compound -20 to +60C 72 Vdc max. 1.0 Ampere max. 500 MegaOhm min. @500 Vdc

Description	Bundle Length m	Remote Termination	Packaging	P/N
24-Port Unshielded Blank 19" Panel for 4 Pre-Terminated Cassettes	N/A	N/A	1/Box	13U00NV024P-BK51
6-Port Unshielded CAT6 Plug & Play RJ45 Cassette to Cassette	10	RJ45 Cassette	1/Bag	32U06HA100C-BK61
6-Port Unshielded CAT6 Plug & Play RJ45 Cassette to Cassette	20	RJ45 Cassette	1/Bag	32U06HA200C-BK61
6-Port Unshielded CAT6 Plug & Play RJ45 Cassette to Cassette	30	RJ45 Cassette	1/Bag	32U06HA300C-BK61
6-Port Unshielded CAT6 Plug & Play RJ45 Cassette to Cassette	40	RJ45 Cassette	1/Bag	32U06HA400C-BK61
6-Port Unshielded CAT6 Plug & Play RJ45 Cassette to Cassette	50	RJ45 Cassette	1/Bag	32U06HA500C-BK61
6-Port Unshielded CAT6 Plug & Play RJ45 Cassette to Jacks	10	6 RJ45 Jack	1/Bag	32U06HA100R-BK61
6-Port Unshielded CAT6 Plug & Play RJ45 Cassette to Jacks	20	6 RJ45 Jack	1/Bag	32U06HA200R-BK61
6-Port Unshielded CAT6 Plug & Play RJ45 Cassette to Jacks	30	6 RJ45 Jack	1/Bag	32U06HA300R-BK61
6-Port Unshielded CAT6 Plug & Play RJ45 Cassette to Jacks	40	6 RJ45 Jack	1/Bag	32U06HA400R-BK61
6-Port Unshielded CAT6 Plug & Play RJ45 Cassette to Jacks	50	6 RJ45 Jack	1/Bag	32U06HA500R-BK61
6-Port Unshielded CAT6 Plug & Play RJ45 Cassette to Plugs	5	6 RJ45 Plugs	1/Bag	32U06HA050L-BK61
6-Port Unshielded CAT6 Plug & Play RJ45 Cassette to Plugs	10	6 RJ45 Plugs	1/Bag	32U06HA100L-BK61
6-Port Unshielded CAT6 Plug & Play RJ45 Cassette to Plugs	15	6 RJ45 Plugs	1/Bag	32U06HA150L-BK61
6-Port Unshielded CAT6 Plug & Play RJ45 Cassette to Plugs	20	6 RJ45 Plugs	1/Bag	32U06HA200L-BK61
6-Port Unshielded CAT6 Plug & Play RJ45 Cassette to Plugs	25	6 RJ45 Plugs	1/Bag	32U06HA250L-BK61
6-Port Unshielded CAT6 Plug & Play RJ45 Cassette to Open	10	None	1/Bag	32U06HA100E-BK61
6-Port Unshielded CAT6 Plug & Play RJ45 Cassette to Open	20	None	1/Bag	32U06HA200E-BK61
6-Port Unshielded CAT6 Plug & Play RJ45 Cassette to Open	30	None	1/Bag	32U06HA300E-BK61
6-Port Unshielded CAT6 Plug & Play RJ45 Cassette to Open	40	None	1/Bag	32U06HA400E-BK61
6-Port Unshielded CAT6 Plug & Play RJ45 Cassette to Open	50	None	1/Bag	32U06HA500E-BK61





AT&T CenterLine Category 6

Shielded 100 Ohm RJ45 Plug & Play Pre-Terminated Cassettes Description

6-Port shielded RJ45 pre-terminated cassettes in 24-Port panel

Frequency range Cassette contents Panel formation Panel and cassette color

Cable bundles

Conductor Insulation Individual shield Drain wire Overall shield Jacket Standard jacket color Number of 4-pair cables Bundle jacket 1-250 MHz 6 shielded CAT6 RJ45 jacks 4 cassettes in 1U Black (other colors available)

23 AWG solid bare copper PO Aluminum foil None. Tin-coated copper braid LSOH Gray (other colors available) 6 in each cassette LSOH black polyester braid secured with shrink-tubes 5-50m (other lengths available)

Length

Standard & EU Directives Conformance

- Category 6 according to ISO/IEC 11801
- Category 6 according to EN 50173
- Category 6 according to ANSI/TIA-568.2-D
- IEC 60332-1 (cable) and UL94 V-0 flame tests (construction materials)
- IEC 60754 & IEC 61034
- EU Directive 2011/65/EU (RoHS-2)

Mechanical & Electrical Properties

Impedance Pin-pair assignment Jacks contacts Jacks housing Jack shield Operating temperature Voltage rating Ampacity Insulation resistance Ordering Information 100 Ohm nom. T568B 50μ-Inch Gold plating High impact FR compound Die-cast metal case -20 to +60C 72 Vdc max. 1.0 Ampere max. 500 MegaOhm min. @500 Vdc



Description	Bundle Length m	Remote Termination	Packaging	P/N
24-Port Shielded Blank 19" Panel for 4 Pre-Terminated Cassettes	N/A	N/A	1/Box	13S00NV024P-BK51
6-Port Shielded S/FTP CAT6 Plug & Play RJ45 Cassette to Cassette	10	RJ45 Cassette	1/Bag	32S06HA100C-BK61
6-Port Shielded S/FTP CAT6 Plug & Play RJ45 Cassette to Cassette	20	RJ45 Cassette	1/Bag	32S06HA200C-BK61
6-Port Shielded S/FTP CAT6 Plug & Play RJ45 Cassette to Cassette	30	RJ45 Cassette	1/Bag	32S06HA300C-BK61
6-Port Shielded S/FTP CAT6 Plug & Play RJ45 Cassette to Cassette	40	RJ45 Cassette	1/Bag	32S06HA400C-BK61
6-Port Shielded S/FTP CAT6 Plug & Play RJ45 Cassette to Cassette	50	RJ45 Cassette	1/Bag	32\$06HA500C-BK61
6-Port Shielded S/FTP CAT6 Plug & Play RJ45 Cassette to Jacks	10	6 RJ45 Jack	1/Bag	32S06HA100R-BK61
6-Port Shielded S/FTP CAT6 Plug & Play RJ45 Cassette to Jacks	20	6 RJ45 Jack	1/Bag	32S06HA200R-BK61
6-Port Shielded S/FTP CAT6 Plug & Play RJ45 Cassette to Jacks	30	6 RJ45 Jack	1/Bag	32S06HA300R-BK61
6-Port Shielded S/FTP CAT6 Plug & Play RJ45 Cassette to Jacks	40	6 RJ45 Jack	1/Bag	32S06HA400R-BK61
6-Port Shielded S/FTP CAT6 Plug & Play RJ45 Cassette to Jacks	50	6 RJ45 Jack	1/Bag	32S06HA500R-BK61
6-Port Shielded S/FTP CAT6 Plug & Play RJ45 Cassette to Plugs	5	6 RJ45 Plugs	1/Bag	32\$06HA050L-BK61
6-Port Shielded S/FTP CAT6 Plug & Play RJ45 Cassette to Plugs	10	6 RJ45 Plugs	1/Bag	32\$06HA100L-BK61
6-Port Shielded S/FTP CAT6 Plug & Play RJ45 Cassette to Plugs	15	6 RJ45 Plugs	1/Bag	32\$06HA150L-BK61
6-Port Shielded S/FTP CAT6 Plug & Play RJ45 Cassette to Plugs	20	6 RJ45 Plugs	1/Bag	32\$06HA200L-BK61
6-Port Shielded S/FTP CAT6 Plug & Play RJ45 Cassette to Plugs	25	6 RJ45 Plugs	1/Bag	32\$06HA250L-BK61
6-Port Shielded S/FTP CAT6 Plug & Play RJ45 Cassette to Open	10	None	1/Bag	32S06HA100E-BK61
6-Port Shielded S/FTP CAT6 Plug & Play RJ45 Cassette to Open	20	None	1/Bag	32S06HA200E-BK61
6-Port Shielded S/FTP CAT6 Plug & Play RJ45 Cassette to Open	30	None	1/Bag	32S06HA300E-BK61
6-Port Shielded S/FTP CAT6 Plug & Play RJ45 Cassette to Open	40	None	1/Bag	32S06HA400E-BK61
6-Port Shielded S/FTP CAT6 Plug & Play RJ45 Cassette to Open	50	None	1/Bag	32S06HA500E-BK61



CenterLine

AT&T CenterLine Category 6 Plug & Play

Unshielded 100 Ohm RJ45 Plug & Play Pre-Terminated Cable Bundles Description

6-Port unshielded R45/RJ45 pre-terminated cable bundles

Frequency range Termination Conductor Insulation Jacket Standard jacket color Number of 4-pair cables Bundle jacket 1-250 MHz Unshielded CAT6 RJ45 jacks 23 AWG solid bare copper PO PVC or LS0H Gray (other colors available) 6 LS0H black polyester braid secured with shrink-tubes 10-50m (other lengths available)

Length

Standard & EU Directives Conformance

- Category 6 according to ISO/IEC 11801
- Category 6 according to EN 50173
- Category 6 according to ANSI/TIA-568.2-D
- IEC 60332-1 (cable) and UL94 V-0 flame tests (construction materials)
- EU Directive 2011/65/EU (RoHS-2)

Mechanical & Electrical Properties

Impedance Pin-pair assignment Jacks contacts Jacks housing Jacks color Operating temperature Voltage rating Ampacity Insulation resistance 100 Ohm nom. T568B 50µ-Inch Gold plating High impact FR compound White/Blue (other colors available) -20 to +60C 72 Vdc max. 1.0 Ampere max. 500 MegaOhm min. @500 Vdc



Description	Bundle Length m	Jacket Type	Jacks	Packaging	P/N
6-Port Unshielded CAT6 Plug & Play Pre-Terminated Bundle	10	PVC	RJ45	1/Box	33U06VA100R-GY51
6-Port Unshielded CAT6 Plug & Play Pre-Terminated Bundle	20	PVC	RJ45	1/Box	33U06VA200R-GY51
6-Port Unshielded CAT6 Plug & Play Pre-Terminated Bundle	30	PVC	RJ45	1/Box	33U06VA300R-GY51
6-Port Unshielded CAT6 Plug & Play Pre-Terminated Bundle	40	PVC	RJ45	1/Box	33U06VA400R-GY51
6-Port Unshielded CAT6 Plug & Play Pre-Terminated Bundle	50	PVC	RJ45	1/Box	33U06VA500R-GY51
6-Port Unshielded CAT6 Plug & Play Pre-Terminated Bundle	10	LS0H	RJ45	1/Box	33U06HA100R-GY51
6-Port Unshielded CAT6 Plug & Play Pre-Terminated Bundle	20	LS0H	RJ45	1/Box	33U06HA200R-GY51
6-Port Unshielded CAT6 Plug & Play Pre-Terminated Bundle	30	LS0H	RJ45	1/Box	33U06HA300R-GY51
6-Port Unshielded CAT6 Plug & Play Pre-Terminated Bundle	40	LS0H	RJ45	1/Box	33U06HA400R-GY51
6-Port Unshielded CAT6 Plug & Play Pre-Terminated Bundle	50	LS0H	RJ45	1/Box	33U06HA500R-GY51



CenterLine

AT&T CenterLine Category 6 Plug & Play Shielded 100 Ohm RJ45 Plug & Play Pre-Terminated Bundles Description

6-Port Shielded U/FTP or S/FTP R45/RJ45 pre-terminated cable bundles Frequency range 1-250 MHz Termination Shielded CAT6 RJ45 jacks Conductor Insulation PO Individual shield Drain wire (U/FTP cable only) wire Overall shield (S/FTP cable only)

Jacket Standard jacket color Number of 4-pair cables Bundle jacket

23 AWG solid bare copper Aluminum foil Single tin-coated copper solid Tin-coated copper braid PVC or LS0H Gray (other colors available) 6 LS0H black polyester braid secured with shrink-tubes 10-50m (other lengths available)

Length

Standard & EU Directives Conformance

- Category 6 according to ISO/IEC 11801
- Category 6 according to EN 50173
- Category 6 according to ANSI/TIA-568.2-D
- IEC 60332-1 (cable) and UL94 V-0 flame tests (construction materials)
- EU Directive 2011/65/EU (RoHS-2)

Mechanical & Electrical Properties

Impedance Pin-pair assignment Jacks contacts Jacks housing Jacks shield Jacks color Operating temperature Voltage rating Ampacity Insulation resistance

100 Ohm nom. T568B 50µ-Inch Gold plating High impact FR compound Die-cast metal case Metal/Blue (other colors available) -20 to +60C 72 Vdc max. 1.0 Ampere max. 500 MegaOhm min. @500 Vdc

Description	Bundle Length m	Jacket Type	Jacks	Packaging	P/N
6-Port Shielded U/FTP CAT6 Plug & Play Pre-Terminated Bundle	10	PVC	RJ45	1/Box	33F06VA100R-GY51
6-Port Shielded U/FTP CAT6 Plug & Play Pre-Terminated Bundle	20	PVC	RJ45	1/Box	33F06VA200R-GY51
6-Port Shielded U/FTP CAT6 Plug & Play Pre-Terminated Bundle	30	PVC	RJ45	1/Box	33F06VA300R-GY51
6-Port Shielded U/FTP CAT6 Plug & Play Pre-Terminated Bundle	40	PVC	RJ45	1/Box	33F06VA400R-GY51
6-Port Shielded U/FTP CAT6 Plug & Play Pre-Terminated Bundle	50	PVC	RJ45	1/Box	33F06VA500R-GY51
6-Port Shielded U/FTP CAT6 Plug & Play Pre-Terminated Bundle	10	LS0H	RJ45	1/Box	33F06HA100R-GY51
6-Port Shielded U/FTP CAT6 Plug & Play Pre-Terminated Bundle	20	LS0H	RJ 45	1/Box	33F06HA200R-GY51
6-Port Shielded U/FTP CAT6 Plug & Play Pre-Terminated Bundle	30	LS0H	RJ45	1/Box	33F06HA300R-GY51
6-Port Shielded U/FTP CAT6 Plug & Play Pre-Terminated Bundle	40	LS0H	RJ 45	1/Box	33F06HA400R-GY51
6-Port Shielded U/FTP CAT6 Plug & Play Pre-Terminated Bundle	50	LS0H	RJ45	1/Box	33F06HA500R-GY51
6-Port Shielded S/FTP CAT6 Plug & Play Pre-Terminated Bundle	10	PVC	RJ45	1/Box	33S06VA100R-GY51
6-Port Shielded S/FTP CAT6 Plug & Play Pre-Terminated Bundle	20	PVC	RJ45	1/Box	33S06VA200R-GY51
6-Port Shielded S/FTP CAT6 Plug & Play Pre-Terminated Bundle	30	PVC	RJ45	1/Box	33S06VA300R-GY51
6-Port Shielded S/FTP CAT6 Plug & Play Pre-Terminated Bundle	40	PVC	RJ45	1/Box	33S06VA400R-GY51
6-Port Shielded S/FTP CAT6 Plug & Play Pre-Terminated Bundle	50	PVC	RJ45	1/Box	33S06VA500R-GY51
6-Port Shielded S/FTP CAT6 Plug & Play Pre-Terminated Bundle	10	LS0H	RJ45	1/Box	33S06HA100R-GY51
6-Port Shielded S/FTP CAT6 Plug & Play Pre-Terminated Bundle	20	LS0H	RJ45	1/Box	33S06HA200R-GY51
6-Port Shielded S/FTP CAT6 Plug & Play Pre-Terminated Bundle	30	LS0H	RJ45	1/Box	33S06HA300R-GY51
6-Port Shielded S/FTP CAT6 Plug & Play Pre-Terminated Bundle	40	LS0H	RJ45	1/Box	33S06HA400R-GY51
6-Port Shielded S/FTP CAT6 Plug & Play Pre-Terminated Bundle	50	LS0H	RJ45	1/Box	33S06HA500R-GY51





AT&T CenterLine Category 6A

Unshielded 100 Ohm RJ45 Plug & Play Pre-Terminated Cassettes Description

6-Port unshielded RJ45 pre-terminated cassettes in 24-Port panel

Frequency range Cassette contents Panel formation Panel and cassette color Cable bundles Conductor

Insulation Jacket Standard jacket color Number of 4-pair cables Bundle jacket 1-500 MHz 6 unshielded CAT6A RJ45 jacks 4 cassettes in 1U Black (other colors available)

23 AWG solid bare copper PO LSOH Gray (other colors available) 6 in each cassette LSOH black polyester braid secured with shrink-tubes 5-50m (other lengths available)

Length

Standard & EU Directives Conformance

- Category 6A according to ISO/IEC 11801
- Category 6A according to EN 50173
- Category 6A according to ANSI/TIA-568.2-D
- IEC 60332-1 (cable) and UL94 V-0 flame tests (construction materials)
- IEC 60754 & IEC 61034
- EU Directive 2011/65/EU (RoHS-2)

Mechanical & Electrical Properties

Impedance 100 Ohm nom. Pin-pair assignment T568B Jacks contacts 50µ-Inch Gold plating Jacks housing High impact FR compound Operating temperature -20 to +60C Voltage rating 72 Vdc max. Ampacity 1.0 Ampere max. Insulation resistance 500 MegaOhm min. @500 Vdc



Description	Bundle Length m	Remote Termination	Packaging	P/N
24-Port Unshielded Blank 19" Panel for 4 Pre-Terminated Cassettes	N/A	N/A	1/Box	13U00NV024P-BK51
6-Port Unshielded CAT6A Plug & Play RJ45 Cassette to Cassette	10	RJ45 Cassette	1/Bag	32U6AHA100C-BK61
6-Port Unshielded CAT6A Plug & Play RJ45 Cassette to Cassette	20	RJ45 Cassette	1/Bag	32U6AHA200C-BK61
6-Port Unshielded CAT6A Plug & Play RJ45 Cassette to Cassette	30	RJ45 Cassette	1/Bag	32U6AHA300C-BK61
6-Port Unshielded CAT6A Plug & Play RJ45 Cassette to Cassette	40	RJ45 Cassette	1/Bag	32U6AHA400C-BK61
6-Port Unshielded CAT6A Plug & Play RJ45 Cassette to Cassette	50	RJ45 Cassette	1/Bag	32U6AHA500C-BK61
6-Port Unshielded CAT6A Plug & Play RJ45 Cassette to Jacks	10	6 RJ45 Jack	1/Bag	32U6AHA100R-BK61
6-Port Unshielded CAT6A Plug & Play RJ45 Cassette to Jacks	20	6 RJ45 Jack	1/Bag	32U6AHA200R-BK61
6-Port Unshielded CAT6A Plug & Play RJ45 Cassette to Jacks	30	6 RJ45 Jack	1/Bag	32U6AHA300R-BK61
6-Port Unshielded CAT6A Plug & Play RJ45 Cassette to Jacks	40	6 RJ45 Jack	1/Bag	32U6AHA400R-BK61
6-Port Unshielded CAT6A Plug & Play RJ45 Cassette to Jacks	50	6 RJ45 Jack	1/Bag	32U6AHA500R-BK61
6-Port Unshielded CAT6A Plug & Play RJ45 Cassette to Plugs	5	6 RJ45 Plugs	1/Bag	32U6AHA050L-BK61
6-Port Unshielded CAT6A Plug & Play RJ45 Cassette to Plugs	10	6 RJ45 Plugs	1/Bag	32U6AHA100L-BK61
6-Port Unshielded CAT6A Plug & Play RJ45 Cassette to Plugs	15	6 RJ45 Plugs	1/Bag	32U6AHA150L-BK61
6-Port Unshielded CAT6A Plug & Play RJ45 Cassette to Plugs	20	6 RJ45 Plugs	1/Bag	32U6AHA200L-BK61
6-Port Unshielded CAT6A Plug & Play RJ45 Cassette to Plugs	25	6 RJ45 Plugs	1/Bag	32U6AHA250L-BK61
6-Port Unshielded CAT6A Plug & Play RJ45 Cassette to Open	10	None	1/Bag	32U6AHA100E-BK61
6-Port Unshielded CAT6A Plug & Play RJ45 Cassette to Open	20	None	1/Bag	32U6AHA200E-BK61
6-Port Unshielded CAT6A Plug & Play RJ45 Cassette to Open	30	None	1/Bag	32U6AHA300E-BK61
6-Port Unshielded CAT6A Plug & Play RJ45 Cassette to Open	40	None	1/Bag	32U6AHA400E-BK61
6-Port Unshielded CAT6A Plug & Play RJ45 Cassette to Open	50	None	1/Bag	32U6AHA500E-BK61



CenterLine

AT&T CenterLine Category 6A

Shielded 100 Ohm RJ45 Plug & Play Pre-Terminated Cassettes Description

6-Port shielded RJ45 S/FTP pre-terminated cassettes in 24-Port panel

Frequency range Cassette contents Panel formation Panel and cassette color Cable bundles

Cable bund Conductor

Insulation Individual shield Drain wire Overall shield Jacket Standard jacket color Number of 4-pair cables Bundle jacket 1-500 MHz 6 shielded CAT6A RJ45 jacks 4 cassettes in 1U Black (other colors available)

23 AWG solid bare copper PO Aluminum foil None Tin-coated copper braid LSOH Gray (other colors available) 6 in each cassette LSOH black polyester braid secured with shrink-tubes 5-50m (other lengths available)

Length

Standard & EU Directives Conformance

- Category 6A according to ISO/IEC 11801
- Category 6A according to EN 50173
- Category 6A according to ANSI/TIA-568.2-D
- IEC 60332-1 (cable) and UL94 V-0 flame tests
- (construction materials)
- IEC 60754 & IEC 61034
- EU Directive 2011/65/EU (RoHS-2)

Mechanical & Electrical Properties

Impedance
Pin-pair assignment
Jacks contacts
Jacks housing
Jack shield
Operating temperature
Voltage rating
Ampacity
Insulation resistance

100 Ohm nom. T568B 50μ-Inch Gold plating High impact FR compound Die-cast metal case -20 to +60C 72 Vdc max. 1.0 Ampere max. 500 MegaOhm min. @500 Vdc

Ordering Information

Description	Bundle Length m	Remote Termination	Packaging	P/N
24-Port Shielded Blank 19" Panel for 4 Pre-Terminated Cassettes	N/A	N/A	1/Box	13S00NV024P-BK51
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Cassette	10	RJ45 Cassette	1/Bag	32S6AHA100C-BK61
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Cassette	20	RJ45 Cassette	1/Bag	32S6AHA200C-BK61
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Cassette	30	RJ45 Cassette	1/Bag	32S6AHA300C-BK61
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Cassette	40	RJ45 Cassette	1/Bag	32S6AHA400C-BK61
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Cassette	50	RJ45 Cassette	1/Bag	32S6AHA500C-BK61
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Jacks	10	6 RJ45 Jack	1/Bag	32S6AHA100R-BK61
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Jacks	20	6 RJ45 Jack	1/Bag	32S6AHA200R-BK61
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Jacks	30	6 RJ45 Jack	1/Bag	32S6AHA300R-BK61
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Jacks	40	6 RJ45 Jack	1/Bag	32S6AHA400R-BK61
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Jacks	50	6 RJ45 Jack	1/Bag	32S6AHA500R-BK61
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Plugs	5	6 RJ45 Plugs	1/Bag	32S6AHA050L-BK61
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Plugs	10	6 RJ45 Plugs	1/Bag	32S6AHA100L-BK61
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Plugs	15	6 RJ45 Plugs	1/Bag	32S6AHA150L-BK61
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Plugs	20	6 RJ45 Plugs	1/Bag	32S6AHA200L-BK61
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Plugs	25	6 RJ45 Plugs	1/Bag	32S6AHA250L-BK61
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Open	10	None	1/Bag	32S6AHA100E-BK61
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Open	20	None	1/Bag	32S6AHA200E-BK61
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Open	30	None	1/Bag	32S6AHA300E-BK61
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Open	40	None	1/Bag	32S6AHA400E-BK61
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Open	50	None	1/Bag	32S6AHA500E-BK61

Continued on page C.3.3.2a





CenterLine

AT&T CenterLine Category 6A

Shielded 100 Ohm RJ45 Plug & Play Pre-Terminated Cassettes Description

6-Port shielded RJ45 S/FTP pre-terminated cassettes in 24-Port panel

Frequency range Cassette contents Panel formation Panel and cassette color Cable bundles

Cable

Cable Cable test frequency Cable P/N Drain wire Overall shield Jacket Standard jacket color Number of 4-pair cables Bundle jacket 1-500 MHz 6 shielded CAT6A RJ45 jacks 4 cassettes in 1U Black (other colors available)

23 AWG S/FTP CAT7A cable 1200MHz 11S7AHAK04D None 65% Tin-coated copper braid LS0H Gray (other colors available) 6 in each cassette LS0H black polyester braid secured with shrink-tubes 5-50m (other lengths available)

Length

Standard & EU Directives Conformance

- Category 6A according to ISO/IEC 11801
- Category 6A according to EN 50173
- Category 6A according to ANSI/TIA-568.2-D
- IEC 60332-1 (cable) and UL94 V-0 flame tests (construction materials)
- IEC 60754 & IEC 61034
- EU Directive 2011/65/EU (RoHS-2)

Mechanical & Electrical Properties

Impedance Pin-pair assignment Jacks contacts Jacks housing Jack shield Operating temperature Voltage rating Ampacity Insulation resistance 100 Ohm nom. T568B 50μ-Inch Gold plating High impact FR compound Die-cast metal case -20 to +60C 72 Vdc max. 1.0 Ampere max. 500 MegaOhm min. @500 Vdc

Description	Bundle Length m	Remote Termination	Packaging	P/N
24-Port Shielded Blank 19" Panel for 4 Pre-Terminated Cassettes	N/A	N/A	1/Box	13S00NV024P-BK51
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Cassette	10	RJ45 Cassette	1/Bag	32S6AHA100K-BK61
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Cassette	20	RJ45 Cassette	1/Bag	32S6AHA200K-BK61
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Cassette	30	RJ45 Cassette	1/Bag	32S6AHA300K-BK61
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Cassette	40	RJ45 Cassette	1/Bag	32S6AHA400K-BK61
6-Port Shielded S/FTP CAT6A Plug & Play RJ45 Cassette to Cassette	50	RJ45 Cassette	1/Bag	32S6AHA500K-BK61





CenterLine

AT&T CenterLine Category 6A Plug & Play

Unshielded 100 Ohm RJ45 Plug & Play Pre-Terminated Cable Bundles Description

6-Port unshielded R45/RJ45 pre-terminated cable bundles Frequency range Termination Conductor Insulation Jacket Standard jacket color Number of 4-pair cables Bundle jacket

1-500 MHz Unshielded CAT6A RJ45 jacks 23 AWG solid bare copper PO PVC or LS0H Gray (other colors available) 6 LS0H black polyester braid secured with shrink-tubes 10-50m (other lengths available)

Length

Standard & EU Directives Conformance

- Category 6A according to ISO/IEC 11801
- Category 6A according to EN 50173
- Category 6A according to ANSI/TIA-568.2-D
- IEC 60332-1 (cable) and UL94 V-0 flame tests (construction materials)
- EU Directive 2011/65/EU (RoHS-2)

Mechanical & Electrical Properties

Impedance Pin-pair assignment Jacks contacts Jacks housing Jacks color Operating temperature Voltage rating Ampacity Insulation resistance

100 Ohm nom. T568B 50µ-Inch Gold plating High impact FR compound White/Black (other colors available) -20 to +60C 72 Vdc max. 1.0 Ampere max. 500 MegaOhm min. @500 Vdc



Description	Bundle Length m	Jacket Type	Jacks	Packaging	P/N
6-Port Unshielded CAT6A Plug & Play Pre-Terminated Bundle	10	PVC	RJ45	1/Box	33U6AVA100R-GY51
6-Port Unshielded CAT6A Plug & Play Pre-Terminated Bundle	20	PVC	RJ45	1/Box	33U6AVA200R-GY51
6-Port Unshielded CAT6A Plug & Play Pre-Terminated Bundle	30	PVC	RJ45	1/Box	33U6AVA300R-GY51
6-Port Unshielded CAT6A Plug & Play Pre-Terminated Bundle	40	PVC	RJ45	1/Box	33U6AVA400R-GY51
6-Port Unshielded CAT6A Plug & Play Pre-Terminated Bundle	50	PVC	RJ45	1/Box	33U6AVA500R-GY51
6-Port Unshielded CAT6A Plug & Play Pre-Terminated Bundle	10	LS0H	RJ45	1/Box	33U6AHA100R-GY51
6-Port Unshielded CAT6A Plug & Play Pre-Terminated Bundle	20	LS0H	RJ45	1/Box	33U6AHA200R-GY51
6-Port Unshielded CAT6A Plug & Play Pre-Terminated Bundle	30	LS0H	RJ45	1/Box	33U6AHA300R-GY51
6-Port Unshielded CAT6A Plug & Play Pre-Terminated Bundle	40	LS0H	RJ45	1/Box	33U6AHA400R-GY51
6-Port Unshielded CAT6A Plug & Play Pre-Terminated Bundle	50	LS0H	RJ45	1/Box	33U6AHA500R-GY51



AT&T CenterLine Category 6A Plug & Play Shielded 100 Ohm RJ45 Plug & Play Pre-Terminated Bundles Description

6-Port Shielded S/FTP R45/RJ45 pre-terminated cable bundles

Frequency range Termination Conductor Insulation Individual shield Drain wire Overall shield Jacket Standard jacket color Number of 4-pair cables Bundle jacket 1-500 MHz Shielded CAT6A RJ45 jacks 23 AWG solid bare copper PO Aluminum foil None Tin-coated copper braid PVC or LS0H Gray (other colors available) 6 LS0H black polyester braid secured with shrink-tubes 10-50m (other lengths available)

Length

Standard & EU Directives Conformance

- Category 6A according to ISO/IEC 11801
- Category 6A according to EN 50173
- Category 6A according to ANSI/TIA-568.2-D
- IEC 60332-1 (cable) and UL94 V-0 flame tests (construction materials)
- EU Directive 2011/65/EU (RoHS-2)

Mechanical & Electrical Properties

Impedance Pin-pair assignment Jacks contacts Jacks housing Jacks shield Jacks color Operating temperature Voltage rating Ampacity Insulation resistance 100 Ohm nom. T568B 50μ-Inch Gold plating High impact FR compound Die-cast metal case Metal/Black (other colors available) -20 to +60C 72 Vdc max. 1.0 Ampere max. 500 MegaOhm min. @500 Vdc

Ordering Information

Description	Bundle Length m	Jacket Type	Jacks	Packaging	P/N
6-Port Shielded S/FTP CAT6A Plug & Play Pre-Terminated Bundle	10	PVC	RJ45	1/Box	33S6AVA100R-GY51
6-Port Shielded S/FTP CAT6A Plug & Play Pre-Terminated Bundle	20	PVC	RJ45	1/Box	33S6AVA200R-GY51
6-Port Shielded S/FTP CAT6A Plug & Play Pre-Terminated Bundle	30	PVC	RJ45	1/Box	33S6AVA300R-GY51
6-Port Shielded S/FTP CAT6A Plug & Play Pre-Terminated Bundle	40	PVC	RJ45	1/Box	33S6AVA400R-GY51
6-Port Shielded S/FTP CAT6A Plug & Play Pre-Terminated Bundle	50	PVC	RJ45	1/Box	33S6AVA500R-GY51
6-Port Shielded S/FTP CAT6A Plug & Play Pre-Terminated Bundle	10	LS0H	RJ45	1/Box	33S6AHA100R-GY51
6-Port Shielded S/FTP CAT6A Plug & Play Pre-Terminated Bundle	20	LS0H	RJ45	1/Box	33S6AHA200R-GY51
6-Port Shielded S/FTP CAT6A Plug & Play Pre-Terminated Bundle	30	LS0H	RJ45	1/Box	33S6AHA300R-GY51
6-Port Shielded S/FTP CAT6A Plug & Play Pre-Terminated Bundle	40	LS0H	RJ45	1/Box	33S6AHA400R-GY51
6-Port Shielded S/FTP CAT6A Plug & Play Pre-Terminated Bundle	50	LS0H	RJ45	1/Box	33S6AHA500R-GY51

Continued on page C.3.3.4a



CenterLine



CenterLine

AT&T CenterLine Category 6A Plug & Play Shielded 100 Ohm RJ45 Plug & Play Pre-Terminated Bundles Description

6-Port Shielded S/FTP R45/RJ45 pre-terminated cable bundles Frequency range Termination Cable Cable test frequency Cable P/N Drain wire Overall shield Jacket Standard jacket color Number of 4-pair cables Bundle jacket

1-500 MHz Shielded CAT6A RJ45 jacks 23 AWG S/FTP CAT7A cable 1200MHz 11S7AHAK04D None 65% Tin-coated copper braid LS0H Gray (other colors available) 6 LS0H black polyester braid secured with shrink-tubes 10-50m (other lengths available)

Length

Standard & EU Directives Conformance

- Category 6A according to ISO/IEC 11801
- Category 6A according to EN 50173
- Category 6A according to ANSI/TIA-568.2-D
- IEC 60332-1 (cable) and UL94 V-0 flame tests (construction materials)
- EU Directive 2011/65/EU (RoHS-2)

Mechanical & Electrical Properties

Impedance Pin-pair assignment Jacks contacts Jacks housing Jacks shield Jacks color Operating temperature Voltage rating Ampacity Insulation resistance

100 Ohm nom. T568B 50µ-Inch Gold plating High impact FR compound Die-cast metal case Metal/Black (other colors available) -20 to +60C 72 Vdc max. 1.0 Ampere max. 500 MegaOhm min. @500 Vdc

Description	Bundle Length m	Jacket Type	Jacks	Packaging	P/N
6-Port Shielded S/FTP CAT6A Plug & Play Pre-Terminated Bundle	10	LS0H	RJ45	1/Box	33S6AHA100K-GY51
6-Port Shielded S/FTP CAT6A Plug & Play Pre-Terminated Bundle	20	LSOH	RJ45	1/Box	33S6AHA200K-GY51
6-Port Shielded S/FTP CAT6A Plug & Play Pre-Terminated Bundle	30	LSOH	RJ45	1/Box	33S6AHA300K-GY51
6-Port Shielded S/FTP CAT6A Plug & Play Pre-Terminated Bundle	40	LSOH	RJ45	1/Box	33S6AHA400K-GY51
6-Port Shielded S/FTP CAT6A Plug & Play Pre-Terminated Bundle	50	LSOH	RJ45	1/Box	33S6AHA500K-GY51





Fiber Cabling Data-Center Solutions





AT&T CenterLine Fiber Optic MTP Assemblies

MTP® Terminated Panels, Cassettes, Cords, Trunk Assemblies and Harnesses

Optional Constructions

Transmission Properties

Multimode Fibers - MTP Connectors

Connector Type	Connector IL (dB)	Connector RL (dB)	Connector Type	Connector IL (dB)	Connector RL (dB)
Standard Loss	0.50 max.	25 min. 30 Typical	Standard Loss	0.50 max.	50 min. 55 Typical
Low-Loss	0.35 max.	25 min. 30 Typical	Low-Loss	0.35 max.	50 min. 55 Typical
Super Low-Loss	0.25 max.	25 min. 30 Typical	Super Low-Loss	0.25 max.	50 min. 55 Typical

Singlemode Fibers - MTP Connectors

Singlemode Fibers - APC Single-Fiber Connectors

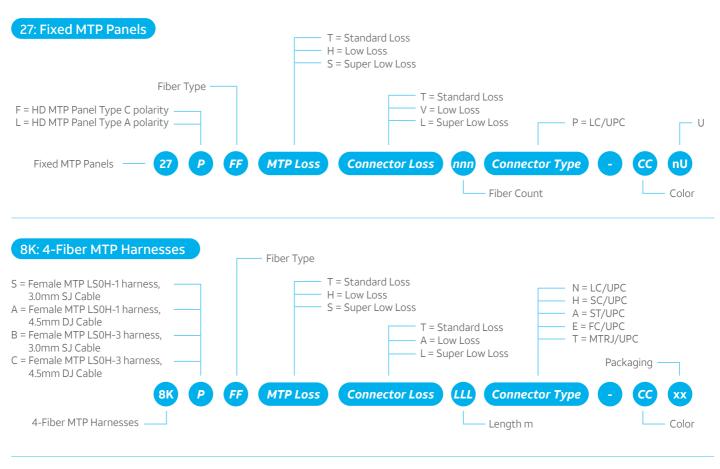
Multimode Fibers - LC Connectors

Connector Type	Connector IL (dB)	Connector RL (dB)
Standard Loss	0.30 max. 0.20 Typical	25 min. 30 Typical
Low-Loss	0.15 max. 0.10 Typical	25 min. 30 Typical
Super Low-Loss	0.10 max. 0.05 Typical	25 min. 30 Typical

Singlemode Fibers - UPC Single-Fiber Connectors

Connector Type	Connector IL (dB)	Connector RL (dB)	Connector Type	Connector IL (dB)	Connector RL (dB)
Standard Loss	0.30 max. 0.20 Typical	50 min. 55 Typical	Standard Loss	0.30 max. 0.20 Typical	55 min. 60 Typical
Low-Loss	0.15 max. 0.10 Typical	50 min. 55 Typical	Low-Loss	0.15 max. 0.10 Typical	55 min. 60 Typical
Super Low-Loss (LC Only)	0.10 max. 0.07 Typical	50 min. 55 Typical	Super Low-Loss (LC Only)	0.10 max. 0.07 Typical	55 min. 60 Typical

Part-Number Systems



Continued on page C.4a

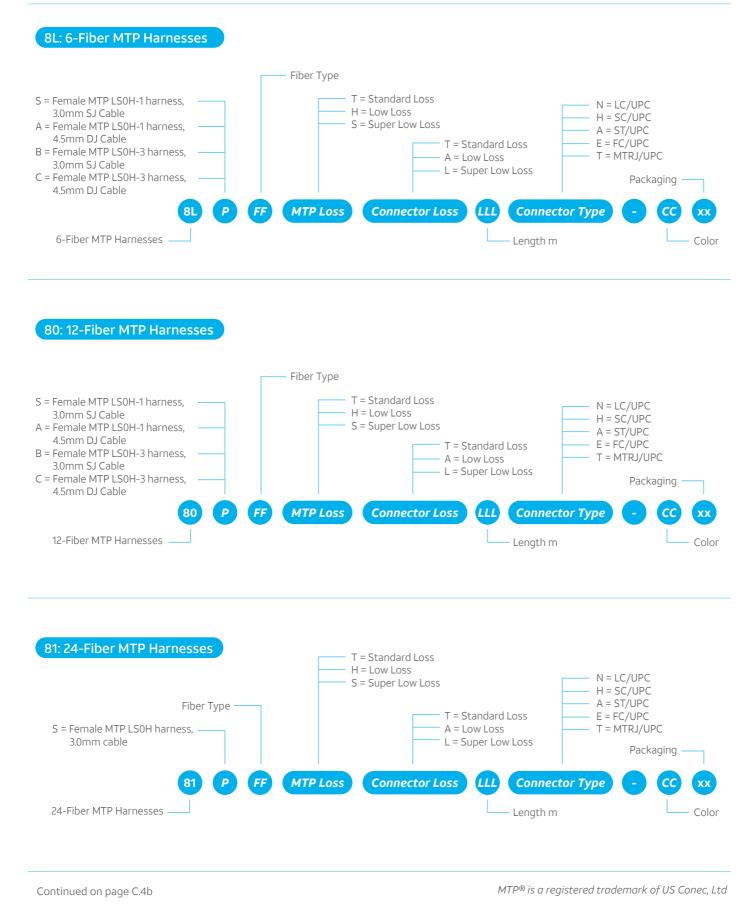
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AT&T CenterLine Fiber Optic MTP Assemblies

MTP® Terminated Panels, Cassettes, Cords, Trunk Assemblies and Harnesses (contd.)

Part Number Systems





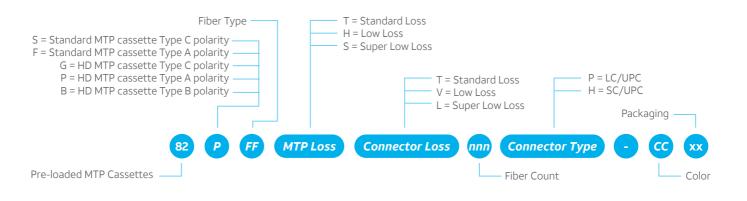
CenterLine

AT&T CenterLine Fiber Optic MTP Assemblies

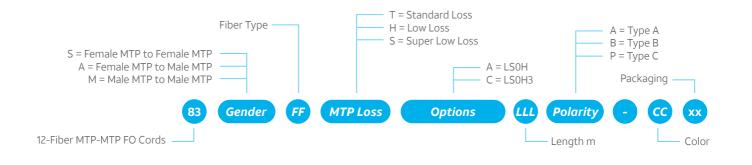
MTP® Terminated Panels, Cassettes, Cords, Trunk Assemblies and Harnesses (contd.)

Part Number Systems

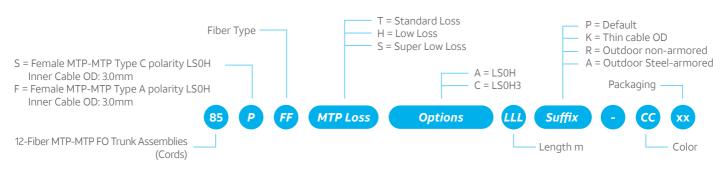
82: Pre-loaded MTP Cassettes



83: 12-Fiber MTP-MTP FO Cords. Cable OD: 3.0mm



85: 12-Fiber MTP-MTP FO Trunk Assemblies (Cords)



Continued on page C.4c

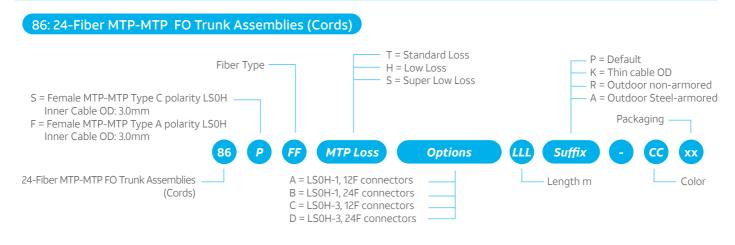
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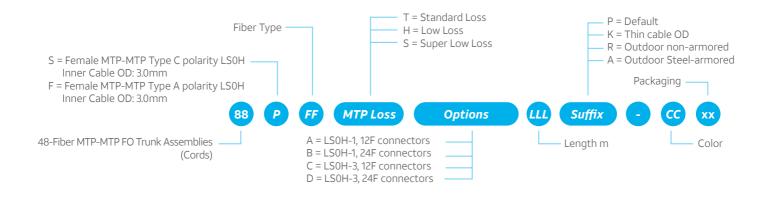
AT&T CenterLine Fiber Optic MTP Assemblies

MTP® Terminated Panels, Cassettes, Cords, Trunk Assemblies and Harnesses (contd.)

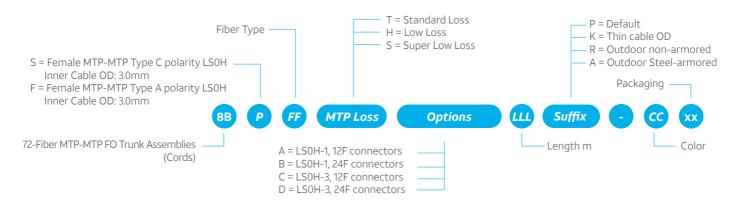
Part Number Systems



88: 48-Fiber MTP-MTP FO Trunk Assemblies (Cords)



8B: 72-Fiber MTP-MTP FO Trunk Assemblies (Cords)



Continued on page C.4d

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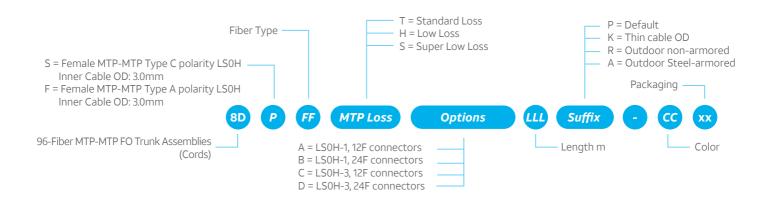


CenterLine

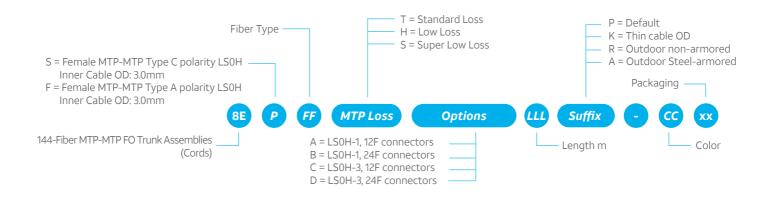
AT&T CenterLine Fiber Optic MTP Assemblies

MTP[®] Terminated Panels, Cassettes, Cords, Trunk Assemblies and Harnesses (contd.) Part Number Systems

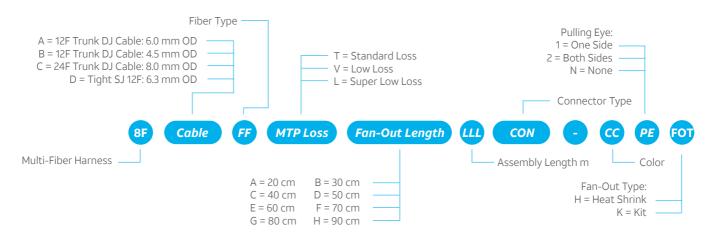
8D: 96-Fiber MTP-MTP FO Trunk Assemblies (Cords)



8E: 144-Fiber MTP-MTP FO Trunk Assemblies (Cords)



8F: AT&T P/N System for Multi-Fiber Harnesses



MTP® is a registered trademark of US Conec, Ltd



AFOE[™] - AT&T Advanced FiberOptic Enclosures

AFOE Features and Benefits

- Comprehensive fiber-optic cross-connect solution in 1U, 2U or 4U options
- · Optional 12-fiber or 24-fiber MTP backbone connections
- Up to 144 LC FO connections or 576 MTP FO connections in 1U
- Up to 288 LC FO connections or 1152 MTP FO connections in 2U
- Up to 576 LC FO connections or 2304 MTP FO connections in 4U
- Optional MTP/LC cassette configurations: 1x12, 2x12, 1x8, 2x8 or 3x8
- Optional MTP/MTP cassette configurations: 1xMTP, 3xMTP or 6xMTP
- Optional shuttered LC adapters
- Optional shuttered MTP adapters
- Front cord management integrated in cassettes
- Integrated side rings cord management
- Integrated backbone cable management
- Aluminum frame panels
- High quality polycarbonate cassettes
- Sliding drawer type panels providing easy access to panel back side
- Front panel labeling
- Individual cassette labeling
- Back side backbone labeling and marking
- Down to 0.30dB MTP/LC total Channel Cassette loss with 12-fiber back bone Super low loss plus
- Down to 0.35dB MTP/LC total Channel Cassette loss with 24-fiber back bone Super low loss





AT&T Cabling Systems



4U







AT&T CenterLine Fiber Optic MTP Plug & Play

AT&T Advanced Fiber Optic Enclosures (AFOE)

Description

1-2304 fiber 19" ultra high-density LC/MTP cassette-based FO enclosures Front-end options Up to 576 LC or 144 MTP Connectors Back-end options Up to 96 MTP connectors Standard fiber types OM3, OM4 & ITU-T G.652.D Optional fiber capacity 144 LC/MTP or 576 MTP/MTP in 1U 288 LC/MTP or 1152 MTP/MTP in 2U 576 LC/MTP or 2304 MTP/MTP in 4U Panel access Top and front slide rail Back Cable Management Removable tray with strain relief Front Cord Management Integrated

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 and Features

Frame	Aluminum, colored black
Front cover	Removable
Operating temperature	-10 to +60C at 5-85% RH
	(non condensing)
Storage temperature	-40 to +70C
Plastic parts	High-impact flame retardant Polycarbonate
Port identification	Numbers and stickers

Ordering Information - Blank Panel Frames

Description	Units	Max. Front-end Capacity	Back-end Capacity	Cassette Capacity	Size mm	Packaging	P/N
Blank AFOE Panel Frame	1U	144 LC or 36 MTP	24 MTP	6	44x425x482	1/Box	AFE0244806N-BK1U
Blank AFOE Panel Frame	2U	288 LC or 72 MTP	48 MTP	12	88x425x482	1/Box	AFE0244812N-BK2U
Blank AFOE Panel Frame	4U	576 LC or 144 MTP	96 MTP	24	177x425x482	1/Box	AFE0244824N-BK4U

Transmission Properties

Multimode Cassettes

Code	Cassette Type MTP-LC	Max. Total Cassette IL @850/1300nm (OM3/OM4)
AF0	Standard Loss	0.75 dB
AF1	Low Loss	0.50 dB
AF2	Super Low Loss	0.35 dB
AF3	Super Low Loss Plus	0.30 dB

Code	Cassette Type MTP-MTP	Max. Total Cassette IL @850/1300nm (OM3/OM4)
AF0	Standard Loss	1.00 dB
AF1	Low Loss	0.70 dB
AF2	Super Low Loss	0.50 dB
AF3	Super Low Loss Plus	0.40 dB

Continued on page C4.1.4a

Singlemode Cassettes

Code	Cassette Type MTP/APC-LC/UPC/APC	Max. Total Cassette IL @1310/1550nm	Min. RL @1310/1550nm
AF0	Standard Loss	1.00 dB	
AF1	Low Loss	0.65 dB	MTP/APC: 65 dB LC/UPC: 55 dB
AF2	Super Low Loss	0.45 dB	LC/APC: 65 dB
AF3	Super Low Loss Plus	0.35 dB	LC/AI C. 05 0D



AT&T CenterLine Fiber Optic MTP Plug & Play

AT&T Advanced Fiber Optic Enclosures (AFOE) (contd.)

Ordering Information - Cassettes with 12-Fiber MTP Back-end Connectors

Cassette Loss Type	Fiber Type	Back-side Connectors Type	Back-side Connectors Count	Back-side Shutter	Front-side Connectors Type	Front-side Connectors Count	Front-Side Shutter	Front-side Connectors Arrangement	Support Direction	Polarity	P/N
AF0	ff	8F MTP Male	1	None	LC	8	Yes	1x8	Right	Α	AFCffC1Q8RN-TB51
AF1		8F MTP Male	1	None	LC	8	None	1x8	Right	В	AFCffC1F8RN-TB51
AF2		8F MTP Male	1	Yes	LC	8	Yes	1x8	Right	С	AFCffN1Q8RN-TB51
AF3		8F MTP Male	1	Yes	LC	8	None	1x8	Right		AFCffN1F8RN-TB51
		12F MTP Male	1	None	LC	12	Yes	1x12	Right		AFCffA1QZRN-TB51
		12F MTP Male	1	None	LC	12	None	1x12	Right		AFCffA1FZRN-TB51
		12F MTP Male	1	Yes	LC	12	Yes	1x12	Right		AFCffM1QZRN-TB51
		12F MTP Male	1	Yes	LC	12	None	1x12	Right		AFCffM1FZRN-TB51
		12F MTP Male	2	None	LC	24	Yes	2x12	Right		AFCffA2QVRN-TB51
		12F MTP Male	2	None	LC	24	None	2x12	Right		AFC#A2FVRN-TB51
		12F MTP Male	2	Yes	LC	24	Yes	2x12	Right		AFCffM2QVRN-TB51
		12F MTP Male	2	Yes	LC	24	None	2x12	Right		AFCffM2FVRN-TB51
		8F MTP Male	2	None	LC	16	Yes	2x8	Right		AFCffC2QSRN-TB51
		8F MTP Male	2	Yes	LC	16	Yes	2x8	Right		AFCffN2QSRN-TB51
		8F MTP Male	2	Yes	LC	16	None	2x8	Right		AFCffN2FSRN-TB51
		12F MTP Male	2	None	LC	24	Yes	3x8	Right		AFC#A2QTRN-TB51
		12F MTP Male	2	None	LC	24	None	3x8	Right		AFC#A2FTRN-TB51
		12F MTP Male	2	Yes	LC	24	Yes	3x8	Right		AFCffM2QTRN-TB51
		12F MTP Male	2	Yes	LC	24	None	3x8	Right		AFCffM2FTRN-TB51
		12F MTP Male	2	None	8F MTP Male	3	Yes	NA	Right		AFCffA2N3RN-TB51
		12F MTP Male	2	None	8F MTP Male	3	None	NA	Right		AFCffA2C3RN-TB51
		12F MTP Male	2	Yes	8F MTP Male	3	Yes	NA	Right		AFCffM2N3RN-TB51
		12F MTP Male	2	Yes	8F MTP Male	3	None	NA	Right		AFCffM2C3RN-TB51
		12F MTP Male	4	None	8F MTP Male	6	Yes	NA	Right		AFC#A4N6RN-TB51
		12F MTP Male	4	None	8F MTP Male	6	None	NA	Right		AFC#A4C6RN-TB51
		12F MTP Male	4	Yes	8F MTP Male	6	Yes	NA	Right		AFCffM4N6RN-TB51
		12F MTP Male	4	Yes	8F MTP Male	6	None	NA	Right		AFCffM4C6RN-TB51

The first 3 letters in the P/N are replaced according to the IL and RL values needed as follows:

AF0: Standard-Loss AF1: Low-Loss AF2: Super Low-Loss AF3: Super Low-Loss-PLUS

Continued on page C4.1.4b

The **ff** in the P/N is replaced with

the code of the fiber selected from page B.6.

The last **N** in the P/N is replaced with a letter indicating the polarity of the cassette: **A**: TYPE A **B**: TYPE B **C**: TYPE C **N**: N/A



AT&T CenterLine Fiber Optic MTP Plug & Play

AT&T Advanced Fiber Optic Enclosures (AFOE) (contd.)

Ordering Information - Cassettes with 24-Fiber MTP Back-end Connectors

Cassette Loss Type	Fiber Type	Back-side Connectors Type	Back-side Connectors Count	Back-side Shutter	Front-side Connectors Type	Front-side Connectors Count	Front-Side Shutter	Front-side Connectors Arrangement	Support Direction	Polarity	P/N
AF0	ff	24F MTP Male	1	None	LC	24	Yes	2x12	Right	А	AFCffB1QVRN-TB51
AF1		24F MTP Male	1	None	LC	24	None	2x12	Right	В	AFCffB1FVRN-TB51
AF2		24F MTP Male	1	Yes	LC	24	Yes	2x12	Right	С	AFCffY1QVRN-TB51
AF3		24F MTP Male	1	Yes	LC	24	None	2x12	Right		AFCffY1FVRN-TB51
		16F MTP Male	1	None	LC	16	Yes	2x8	Right		AFCffH1QSRN-TB51
		16F MTP Male	1	None	LC	16	None	2x8	Right		AFCffH1FSRN-TB51
		16F MTP Male	1	Yes	LC	16	Yes	2x8	Right		AFCffJ1QSRN-TB51
		16F MTP Male	1	Yes	LC	16	None	2x8	Right		AFCffJ1FSRN-TB51
		24F MTP Male	1	None	LC	24	Yes	3x8	Right		AFCffB1QTRN-TB51
		24F MTP Male	1	None	LC	24	None	3x8	Right		AFCffB1FTRN-TB51
		24F MTP Male	1	Yes	LC	24	Yes	3x8	Right		AFC <i>ff</i> Y1QTRN-TB51
		24F MTP Male	1	Yes	LC	24	None	3x8	Right		AFCffY1FTRN-TB51
		24F MTP Male	1	None	8F MTP Male	3	Yes	NA	Right		AFCffB1N3RN-TB51
		24F MTP Male	1	None	8F MTP Male	3	None	NA	Right		AFCffB1C3RN-TB51
		24F MTP Male	1	Yes	8F MTP Male	3	Yes	NA	Right		AFCffY1N3RN-TB51
		24F MTP Male	1	Yes	8F MTP Male	3	None	NA	Right		AFCffY1C3RN-TB51
		24F MTP Male	2	None	8F MTP Male	6	Yes	NA	Right		AFCffB2N6RN-TB51
		24F MTP Male	2	None	8F MTP Male	6	None	NA	Right		AFCffB2C6RN-TB51
		24F MTP Male	2	Yes	8F MTP Male	6	Yes	NA	Right		AFCffY2N6RN-TB51
		24F MTP Male	2	Yes	8F MTP Male	6	None	NA	Right		AFC <i>ff</i> Y2C6RN-TB51

The first 3 letters in the P/N are replaced according to the IL and RL values needed as follows: AF0: Standard-Loss AF1: Low-Loss AF2: Super Low-Loss AF3: Super Low-Loss-PLUS The **ff** in the P/N is replaced with the code of the fiber selected from page B.6.

The last **N** in the P/N is replaced with a letter indicating the polarity of the cassette: **A**: TYPE A **B**: TYPE B **C**: TYPE C **N**: N/A

Ordering Information - Cassettes without MTP Back-end Connectors

Cassette Loss Type	Fiber Type	Back-side Connectors Type	Back-side Connectors Count	Back-side Shutter	Front-side Connectors Type	Front-side Connectors Count	Front-Side Shutter	Front-side Connectors Arrangement	Support Direction	Polarity	P/N
AF0	ff	None	0	None	LC	24	Yes	2x12	Right	Α	AFCffE0QVRN-TB51
AF1		None	0	None	LC	24	None	2x12	Right	В	AFCffE0FVRN-TB51
AF2		None	0	None	LC	16	Yes	2x8	Right	С	AFCffE0QSRN-TB51
AF3		None	0	None	LC	16	None	2x8	Right		AFCffE0FSRN-TB51
		None	0	None	LC	24	Yes	3x8	Right		AFCffE0QTRN-TB51
		None	0	None	LC	24	None	3x8	Right		AFC#E0FTRN-TB51
		None	0	None	MTP	3	Yes	NA	Right		AFCffE0P3RN-TB51
		None	0	None	MTP	3	None	NA	Right		AFCffE0D3RN-TB51
		None	0	None	MTP	6	Yes	NA	Right		AFCffE0P6RN-TB51
		None	0	None	MTP	6	None	NA	Right		AFCffE0D6RN-TB51

The first 3 letters in the P/N are replaced according to the IL and RL values needed as follows: **AF0:** Standard-Loss **AF1:** Low-Loss **AF2:** Super Low-Loss **AF3:** Super Low-Loss-PLUS

Continued on page C4.1.4c

The **ff** in the P/N is replaced with the code of the fiber selected from **page B.6**. **Blank module P/N:** AFC00E0E0NN-BB61 The last **N** in the P/N is replaced with a letter indicating the polarity of the cassette: **A**: TYPE A **B**: TYPE B **C**: TYPE C **N**: N/A



AT&T

AT&T CenterLine Fiber Optic MTP Plug & Play

AT&T Advanced Fiber Optic Enclosures (AFOE) (contd.)

Ordering Information - Adapter Cassettes

AT&T P/N	Description
ADP00E0M30N-TB51	AFOE Adapter Cassette 3xMTP12/24 Shuttered (adapter for 12 or 24 is same)
ADP00E0A30N-TB51	AFOE Adapter Cassette 3xMTP12
ADP00E0M40N-TB51	AFOE Adapter Cassette 4xMTP12 Shuttered
ADP00E0A40N-TB51	AFOE Adapter Cassette 4xMTP12
ADP00E0M60N-TB51	AFOE Adapter Cassette 6xMTP12 Shuttered
ADP00E0A60N-TB51	AFOE Adapter Cassette 6xMTP12
ADP00E0M80N-TB51	AFOE Adapter Cassette 8xMTP12 Shuttered
ADP00E0A80N-TB51	AFOE Adapter Cassette 8xMTP12
ADP00E0MZ0N-TB51	AFOE Adapter Cassette 12xMTP12 Shuttered
ADP00E0AZ0N-TB51	AFOE Adapter Cassette 12xMTP12
ADP00E0FZ0N-TB51	AFOE Adapter Cassette 12 LC
ADP00E0QZ0N-TB51	AFOE Adapter Cassette 12 LC Shuttered
ADP00E0FV0N-TB51	AFOE Adapter Cassette 24 LC
ADP00E0G60N-TB51	AFOE Adapter Cassette 6 SC
ADP00E0GZ0N-TB51	AFOE Adapter Cassette 12 SC

Ordering Information - Splicing Cassettes

AT&T P/N	Description
ASPC3E0FZ1N-TB51	AFOE Splicing Cassette 12xLC, OM3, with 1*12F Splice Tray, 12* splice protection tube
ASPC3E0QZ1N-TB51	AFOE Splicing Cassette 12xLC Shuttered, OM3, with 1*12F Splice Tray, 12* splice protection tube
ASPC4E0FZ1N-TB51	AFOE Splicing Cassette 12xLC, OM4, with 1*12F Splice Tray, 12* splice protection tube
ASPC4E0QZ1N-TB51	AFOE Splicing Cassette 12xLC Shuttered, OM4, with 1*12F Splice Tray, 12* splice protection tube
ASPA2E0FZ1N-TB51	AFOE Splicing Cassette 12xLC, SM with 1*12F Splice Tray, 12* splice protection tube
ASPA2E0QZ1N-TB51	AFOE Splicing Cassette 12xLC Shuttered, SM, with 1*12F Splice Tray, 12* splice protection tube
ASPC3E0FV2N-TB51	AFOE Splicing Cassette 24xLC, OM3, with 2*12F Splice Tray, 24* splice protection tube
ASPC3E0QV2N-TB51	AFOE Splicing Cassette 24xLC Shuttered, OM3, with 2*12F Splice Tray, 24* splice protection tube
ASPC4E0FV2N-TB51	AFOE Splicing Cassette 24xLC, OM4, with 2*12F Splice Tray, 24* splice protection tube
ASPC4E0QV2N-TB51	AFOE Splicing Cassette 24xLC Shuttered, OM4, with 2*12F Splice Tray, 24* splice protection tube
ASPA2E0FV2N-TB51	AFOE Splicing Cassette 24xLC, SM with 2*12F Splice Tray, 24* splice protection tube
ASPA2E0QV2N-TB51	AFOE Splicing Cassette 24xLC Shuttered, SM, with 2*12F Splice Tray, 24* splice protection tube
ASPC3E0GZ1N-TB51	AFOE Splicing Cassette 6xSC, OM3, with 1*12F Splice Tray, 12* splice protection tube
ASPC4E0GZ1N-TB51	AFOE Splicing Cassette 6xLC, OM4, with 1*12F Splice Tray, 12* splice protection tube
ASPA2E0GZ1N-TB51	AFOE Splicing Cassette 6xSC, SM with 1*12F Splice Tray, 12* splice protection tube
ASPC3E0GV1N-TB51	AFOE Splicing Cassette 12xSC, OM3, with 2*12F Splice Tray, 24* splice protection tube
ASPC4E0GV1N-TB51	AFOE Splicing Cassette 12xSC, OM4, with 2*12F Splice Tray, 24* splice protection tube
ASPA2E0GV1N-TB51	AFOE Splicing Cassette 12xSC, SM with 2*12F Splice Tray, 24* splice protection tube

Ordering Information - Splitter Cassettes (Non-shuttered cassettes)

AT&T P/N	Description
AFS00E00A0N-TB51	AFOE Splitter Cassette 1:2 PLC LC/APC to LC/APC
AFS00E00B0N-TB51	AFOE Splitter Cassette 1:4 PLC LC/APC to LC/APC
AFS00E00C0N-TB51	AFOE Splitter Cassette 1:8 PLC LC/APC to LC/APC
AFS00E00D0N-TB51	AFOE Splitter Cassette 1:16 PLC LC/APC to LC/APC
AFS00E00E0N-TB51	AFOE Splitter Cassette 2:2 PLC LC/APC to LC/APC
AFS00E00F0N-TB51	AFOE Splitter Cassette 2:4 PLC LC/APC to LC/APC
AFS00E00G0N-TB51	AFOE Splitter Cassette 2:8 PLC LC/APC to LC/APC
AFS00E00H0N-TB51	AFOE Splitter Cassette 2:16 PLC LC/APC to LC/APC
AFS00E00K0N-TB51	AFOE Splitter Cassette 1:2 PLC SC/APC to LC/APC
AFS00E00L0N-TB51	AFOE Splitter Cassette 1:4 PLC SC/APC to LC/APC
AFS00E00M0N-TB51	AFOE Splitter Cassette 1:8 PLC SC/APC to LC/APC

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AT&T CenterLine

Fiber Optic LC/UPC Duplex Multimode Single Boot Cords for AFOE Description

This page shows the cords designed for AT&T AFOE system:Duplex Single Boot cords made with multimode fibers and terminated with
LC/UPC connectors.Main features: HD Push/Pull tabs, Polarity switch enabled, Color coded
polarity.Additional combinations can be selected using the information on page B.3.Fiber typeSelect a multimode fiber from page B.6.Buffer typeNoneStrength elementsServed aramid and glass yarnMinicable jacket materialFlame retardant LSOH compound

Standard & EU Directives Conformance

- Relevant sections of ANSI/TIA-568.3-D
- Relevant sections of ISO/IEC 11801
- Relevant sections of EN 50173
- Relevant sections of ANSI/TIA/EIA-604 (FOCIS)
- Relevant sections of IEC 60874
- Relevant sections of IEC 61753
- Relevant sections of IEC 61754
- IEC 60332-1 flame test
- IEC 60754 & IEC 61034
- EU Directive 2011/65/EU (RoHS-2)

Mechanical Properties

Short term bend radius Long term bend radius Pulling force Operating temperature

Default jacket color

10xOD mm 50N max. -20 to +70C MM OM1 & OM2: Orange MM OM3: Turquoise MM OM4: Purple MM OM5: Lime

20xOD mm



Optional Transmission Properties - UPC Connectors

Suffix	Connector IL (dB)	Connector RL (dB)
T = Standard Loss connector	0.30 max. 0.20 Typical	20 min.
S = Low-Loss connector	0.15 max. 0.10 Typical	20 min.
L = Super Low-Loss connector	0.10 max. 0.07 Typical	20 min.

Ordering Information

FF: Fiber Type

CC: Jacket Color

Description	Length m	Cable OD mm	Packaging	P/N
LC/UPC-LC/UPC Duplex Multimode Single Boot Cord LS0H Standard Loss	1	1.6	1/Bag - 12/Box	28VFFNN010T-CC61
LC/UPC-LC/UPC Duplex Multimode Single Boot Cord LS0H Standard Loss	2	1.6	1/Bag - 12/Box	28VFFNN020T-CC61
LC/UPC-LC/UPC Duplex Multimode Single Boot Cord LS0H Standard Loss	3	1.6	1/Bag - 12/Box	28VFFNN030T-CC61
LC/UPC-LC/UPC Duplex Multimode Single Boot Cord LS0H Standard Loss	5	1.6	1/Bag - 12/Box	28VFFNN050T-CC61
LC/UPC-LC/UPC Duplex Multimode Single Boot Cord LS0H Standard Loss	10	1.6	1/Bag - 12/Box	28V <i>FF</i> NN100T-CC61



CenterLine

AT&T CenterLine

Fiber Optic LC/UPC Duplex Singlemode Single Boot Cords for AFOE Description

This page shows the cords designed for AT&T AFOE system:Duplex Single Boot cords made with singlemode fibers and terminated withLC/UPC connectors.Main features: HD Push/Pull tabs, Polarity switch enabled, Color codedpolarity.Additional combinations can be selected using the information on page B.3.Fiber typeSelect a singlemode fiber from page B.6.Buffer typeNoneStrength elementsServed aramid and glass yarnMinicable jacket materialFlame retardant LSOH compound

Standard & EU Directives Conformance

- Relevant sections of ANSI/TIA-568.3-D
- Relevant sections of ISO/IEC 11801
- Relevant sections of EN 50173
- Relevant sections of ANSI/TIA/EIA-604 (FOCIS)
- Relevant sections of IEC 60874
- Relevant sections of IEC 61753
- Relevant sections of IEC 61754
- IEC 60332-1 flame test
- IEC 60754 & IEC 61034
- EU Directive 2011/65/EU (RoHS-2)

Mechanical Properties

Short term bend radius	20xOD mm
Long term bend radius	10xOD mm
Pulling force	50N max.
Operating temperature	-20 to +70C
Default jacket color	Yellow



Optional Transmission Properties - UPC Connectors

Suffix	Connector IL (dB)	Connector RL (dB)
T = Standard Loss connector	0.30 max. 0.20 Typical	50 min. 60 Typical
S = Low-Loss connector	0.15 max. 0.10 Typical	50 min. 60 Typical
L = Super Low-Loss connector	0.10 max. 0.07 Typical	50 min. 60 Typical

Ordering Information

FF: Fiber Type

Description	Length m	Cable OD mm	Packaging	P/N
LC/UPC-LC/UPC Duplex Singlemode Single Boot Cord LS0H Standard Loss	1	1.6	1/Bag - 12/Box	28VFFNN010T-YL61
LC/UPC-LC/UPC Duplex Singlemode Single Boot Cord LS0H Standard Loss	2	1.6	1/Bag - 12/Box	28VFFNN020T-YL61
LC/UPC-LC/UPC Duplex Singlemode Single Boot Cord LS0H Standard Loss	3	1.6	1/Bag - 12/Box	28VFFNN030T-YL61
LC/UPC-LC/UPC Duplex Singlemode Single Boot Cord LS0H Standard Loss	5	1.6	1/Bag - 12/Box	28VFFNN050T-YL61
LC/UPC-LC/UPC Duplex Singlemode Single Boot Cord LS0H Standard Loss	10	1.6	1/Bag - 12/Box	28V <i>FF</i> NN100T-YL61



CenterLine

AT&T CenterLine Fiber Optic Panels

Standard 19" Fiber Optic Panels Description

1-288 fiber, 2-7U standard 19" fiber optic splicing/distribution panels Connector type compatibility - Group A ST, SC, FC Connector type compatibility - Group B LC, MTRJ, LSH (E-2000[™]) Splicing with Group A & B connectors Up to two 36 fiber splicing

Distribution with Group A connectors

Distribution with Group B connectors

Panel front

Panel access Front Cable Management LC, MTRJ, LSH (E-2000[™]) Up to two 36 fiber splicing in each cassette Up to 24 fiber direct cable termination in each U Up to 48 fiber direct cable termination in each U Up to 24 removable modules Top and side Tray for patch cord routing and protection

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 and Features

Frame	Steel, colored black
ITallie	
Front cover	Hinged transparent cover
Operating temperature	-10 to +60C at 5-85% RH (non condensing)
Storage temperature	-40 to +70C
Plastic parts	High-impact flame retardant materi- als
Port identification	Numbers and designated space printed on the cover
Panel identification	Designated space at the panel front



Ordering Information - Panels

Description	Units	Fit Capa A		Cassette Capacity	Module Capacity	Size mm	Packaging	P/N
Standard 2U Blank 19" Fiber Optic Panel	2U	36	72	2	6	83x483x356	1/Box	27S00NV072A-MT2U
Standard 3U Blank 19" Fiber Optic Panel	3U	72	144	4	12	132x483x356	1/Box	27S00NV144A-MT3U
Standard 7U Blank 19" Fiber Optic Panel	7U	144	288	8	24	293x483x356	1/Box	27S00NV288A-MT7U

Continued on page C.4.3.1a



CenterLine

AT&T CenterLine Fiber Optic Panels Standard 19" Fiber Optic Panels (contd.)

Ordering Information - Modules

Description	Coupler Type	Coupler Capacity	Fiber Capacity	Packaging	P/N
Pre-loaded Module	Simplex ST/UPC MM	6	6	1/Bag	53200NV006A-MT61
Pre-loaded Module	Simplex ST/UPC MM	12	12	1/Bag	53200NV012A-MT61
Pre-loaded Module	Simplex ST/UPC SM	6	6	1/Bag	53200NV006C-MT61
Pre-loaded Module	Simplex ST/UPC SM	12	12	1/Bag	53200NV012C-MT61
Pre-loaded Module	Simplex FC/UPC MM	6	6	1/Bag	53200NV006E-MT61
Pre-loaded Module	Simplex FC/UPC MM	12	12	1/Bag	53200NV012E-MT61
Pre-loaded Module	Simplex FC/UPC SM	6	6	1/Bag	53200NV006F-MT61
Pre-loaded Module	Simplex FC/UPC SM	12	12	1/Bag	53200NV012F-MT61
Pre-loaded Module	Simplex FC/APC SM	6	6	1/Bag	53200NV006G-MT61
Pre-loaded Module	Simplex FC/APC SM	12	12	1/Bag	53200NV012G-MT61
Pre-loaded Module	Duplex SC/UPC MM	6	12	1/Bag	53200NV012H-MT61
Pre-loaded Module	Duplex SC/UPC SM	6	12	1/Bag	53200NV012J-MT61
Pre-loaded Module	Duplex SC/APC SM	6	12	1/Bag	53200NV012K-MT61
Pre-loaded Module	Duplex LC/UPC MM	6	12	1/Bag	532M2NV012P-MT61
Pre-loaded Module	Duplex LC/UPC MM OM3	6	12	1/Bag	532M3NV012P-MT61
Pre-loaded Module	Duplex LC/UPC MM OM4	6	12	1/Bag	532M4NV012P-MT61
Pre-loaded Module	Duplex LC/UPC SM	6	12	1/Bag	53200NV012Q-MT61
Pre-loaded Module	Duplex LC/APC SM	6	12	1/Bag	53200NV012R-MT61
Pre-loaded Module	Duplex LC/UPC MM	12	24	1/Bag	532M2NV024P-MT61
Pre-loaded Module	Duplex LC/UPC MM OM3	12	24	1/Bag	532M3NV024P-MT61
Pre-loaded Module	Duplex LC/UPC MM OM4	12	24	1/Bag	532M4NV024P-MT61
Pre-loaded Module	Duplex LC/UPC SM	12	24	1/Bag	53200NV024Q-MT61
Pre-loaded Module	Duplex LC/APC SM	12	24	1/Bag	53200NV024R-MT61
Pre-loaded Module	MTRJ	6	12	1/Bag	53200NV012S-MT61
Pre-loaded Module	Duplex LSH/UPC MM	6	12	1/Bag	53200NV012D-MT61
Pre-loaded Module	Duplex LSH/UPC SM	6	12	1/Bag	53200NV012L-MT61
Pre-loaded Module	Duplex LSH/APC SM	6	12	1/Bag	53200NV012M-MT61
Blank Module	None	-	-	1/Bag	53200NV000N-MT61

Ordering Information - Splicing Kits

Description	Fiber Capacity	Packaging	P/N
Splicing Kit for 36 Fibers	36	1/Bag	53500NV036N-NS61
Splicing Kit for 48 Fibers	48	1/Bag	53500NV048N-NS61
Splicing Kit for 72 Fibers	72	1/Bag	53500NV072N-NS61
Splicing Kit for 96 Fibers	96	1/Bag	53500NV096N-NS61
Splicing Kit for 144 Fibers	144	1/Bag	53500NV144N-NS61
Splicing Kit for 192 Fibers	192	1/Bag	53500NV192N-NS61
Splicing Kit for 216 Fibers	216	1/Bag	53500NV216N-NS61
Splicing Kit for 288 Fibers	288	1/Bag	53500NV288N-NS61



CenterLine

AT&T CenterLine Fiber Optic Panels

Wall-Mount Indoor Fiber Optic Panels

Description

12 or 24 fiber indoor wall-mount panels Connector type compatibility Splicing ST, SC, FC, LC, MTRJ, LSH (E-2000™) One or two 12 fiber splicing

Distribution

Panel front

Panel access Doors Locking method Mounting orientation Mounting method cassettes 12 or 24 fiber direct cable termination

Two or four removable pre-loaded modules Front Two individually locked doors Mechanical key Horizontal or vertical Screws (not included)

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 and Features

Frame	Galvanized steel colored gray
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
Panel identification	Designated space inside the panel



Description	Fiber Capacity	Cassette Capacity	Module Capacity	Size mm	Packaging	P/N
12 Fiber Blank Wall-Mount Fiber Optic Panel	12	1	2	78x370x350	1/Box	27W00NV012N-GY51
24 Fiber Blank Wall-Mount Fiber Optic Panel	24	2	4	78x370x350	1/Box	27W00NV024N-GY51

Continued on page C.4.3.2a





AT&T CenterLine Fiber Optic Panels Wall-Mount Indoor Fiber Optic Panels (contd.)

Ordering Information - Modules

Description	Coupler Type	Coupler Capacity	Fiber Capacity	Packaging	P/N
Pre-loaded Module	Simplex ST/UPC MM	6	6	1/Bag	53400NV006A-GY61
Pre-loaded Module	Simplex ST/UPC SM	6	6	1/Bag	53400NV006C-GY61
Pre-loaded Module	Simplex FC/UPC MM	6	6	1/Bag	53400NV006E-GY61
Pre-loaded Module	Simplex FC/UPC SM	6	6	1/Bag	53400NV006F-GY61
Pre-loaded Module	Simplex FC/APC SM	6	6	1/Bag	53400NV006G-GY61
Pre-loaded Module	Simplex SC/UPC MM	6	6	1/Bag	53400NV006H-GY61
Pre-loaded Module	Simplex SC/UPC SM	6	6	1/Bag	53400NV006J-GY61
Pre-loaded Module	Simplex SC/APC SM	6	6	1/Bag	53400NV006K-GY61
Pre-loaded Module	Duplex SC/UPC MM	3	6	1/Bag	53400NV003H-GY61
Pre-loaded Module	Duplex SC/UPC SM	3	6	1/Bag	53400NV003J-GY61
Pre-loaded Module	Duplex SC/APC SM	3	6	1/Bag	53400NV003K-GY61
Pre-loaded Module	Duplex LC/UPC MM	3	6	1/Bag	534M1NV003P-GY61
Pre-loaded Module	Duplex LC/UPC MM	3	6	1/Bag	534M3NV003P-GY61
Pre-loaded Module	Duplex LC/UPC MM	3	6	1/Bag	534M4NV003P-GY61
Pre-loaded Module	Duplex LC/UPC SM	3	6	1/Bag	53400NV003Q-GY61
Pre-loaded Module	Duplex LC/APC SM	3	6	1/Bag	53400NV003R-GY61
Pre-loaded Module	MTRJ	3	6	1/Bag	53400NV003S-GY61
Pre-loaded Module	Duplex LSH/UPC MM	3	6	1/Bag	53400NV003D-GY61
Pre-loaded Module	Duplex LSH/UPC SM	3	6	1/Bag	53400NV003L-GY61
Pre-loaded Module	Duplex LSH/APC SM	3	6	1/Bag	53400NV003M-GY61



CenterLine

AT&T CenterLine Fiber Optic MTP Assemblies

MTP-MTP Fiber Optic Cords

Description

MTP female to MTP female straight LS0H modular cordsfor plug & play panelsFiber typeCable typeCable jacket materialSelect a fiber from page B.6.12-fiber round cableFlame retardant LS0H compo

Cable jacket material Cable jacket diameter Connector type Select a fiber from page B.6. 12-fiber round cable Flame retardant LSOH compound 3.0 mm nom. MTP female both sides

Standard & EU Directives Conformance

- Relevant sections of ANSI/TIA-568.3-D
- Relevant sections of ISO/IEC 11801
- Relevant sections of EN 50173
- Relevant sections of ANSI/TIA/EIA-604 (FOCIS)
- Relevant sections of IEC 60874
- Relevant sections of IEC 61753
- Relevant sections of IEC 61754
- IEC 60332-1 flame test
- IEC 60754 & IEC 61034
- EU Directive 2011/65/EU (RoHS-2)

Mechanical Properties

Short term bend radius	20xOD mm
Short term benu radius	
Long term bend radius	10xOD mm
Operating temperature	-20 to +60C
	MM OM1 & OM2: Orange
	MM OM3: Turquoise
Default jacket colors	MM OM4: Purple
	MM OM5: Lime
	SM: Yellow

Transmission Properties

Multimode Fibers - I	MTP Connectors		Singlemode Fibers -	MTP Connectors	
Connector Type	Connector IL (dB)	Connector RL (dB)	Connector Type	Connector IL (dB)	Connector RL (dB)
Standard Loss	0.50 max.	25 min. 30 Typical	Standard Loss	0.50 max.	50 min. 55 Typical
Low-Loss	0.35 max.	25 min. 30 Typical	Low-Loss	0.35 max.	50 min. 55 Typical
Super Low-Loss	0.25 max.	25 min. 30 Typical	Super Low-Loss	0.25 max.	50 min. 55 Typical

Ordering Information

FF: Fiber Type CC: Jacket Color

Description	TIA-568.3-D Polarity	Fiber Count	Length m	Cable OD mm	Packaging	P/N
MTP Female - MTP Female Plug & Play LS0H Cord	Type-C	12	1	3.0	1/Bag	83SFFHA001P-CC61
MTP Female - MTP Female Plug & Play LS0H Cord	Type-C	12	3	3.0	1/Bag	83S <i>FF</i> HA003P-CC61
MTP Female - MTP Female Plug & Play LS0H Cord	Type-C	12	5	3.0	1/Bag	83S <i>FF</i> HA005P-CC61
MTP Female - MTP Female Plug & Play LS0H Cord	Type-C	12	10	3.0	1/Bag	83SFFHA010P-CC61

All connectors in the above examples are low-loss type.





CenterLine

AT&T CenterLine Fiber Optic MTP Assemblies

MTP-MTP Fiber Optic Trunk Assemblies

Description

MTP female to MTP fem	ale straight LS0H trunk assemblies for plug & play panels
Fiber type	Select a fiber from page B.6.
Cable type	Round ruggedized double-jacketed cable made of 12-fiber units
Fiber count	12, 24, 48,72, 96 or 144
Cable jackets mate- rial	Flame retardant LS0H compound for indoor use
Connector type	12-fiber MTP female straight on both sides
MTP count per side Standard & EU Direc	One MTP connector for each 12-fiber units ctives Conformance

- Relevant sections of ANSI/TIA-568.3-D
- Relevant sections of ISO/IEC 11801
- Relevant sections of EN 50173
- Relevant sections of ANSI/TIA/EIA-604 (FOCIS) Relevant sections of IEC 60874
- Relevant sections of IEC 61753
- Relevant sections of IEC 61754
- IEC 60332-1 flame test
- IEC 60754 & IEC 61034
- EU Directive 2011/65/EU (RoHS-2)

Mechanical Properties

Short term bend radius	20xOD mm
Long term bend radius	10xOD mm
Operating temperature	-20 to +60C
	MM OM1 & OM2: Orange
	MM OM3: Turquoise
Default jacket colors	MM OM4: Purple
5	MM OM5: Lime
	SM: Yellow



Transmission Properties

Multimode Fibers - MTP Connectors

Multimode Fibers - N	MTP Connectors		Singlemode Fibers -	MTP Connectors	
Connector Type	Connector IL (dB)	Connector RL (dB)	Connector Type	Connector IL (dB)	Connector RL (dB)
Standard Loss	0.50 max.	25 min. 30 Typical	Standard Loss	0.50 max.	50 min. 55 Typical
Low-Loss	0.35 max.	25 min. 30 Typical	Low-Loss	0.35 max.	50 min. 55 Typical
Super Low-Loss	0.25 max.	25 min. 30 Typical	Super Low-Loss	0.25 max.	50 min. 55 Typical

Ordering Information

FF: Fiber Type CC: Jacket Color

Description	TIA-568.3-D	Fiber	ber Length		12-Fiber Unit		МТР	Packaging	P/N
	Polarity	Count	m	OD mm	Count	OD mm	Count	ruckuging	.,
12-Fiber MTP Female - MTP Female Plug & Play LSOH Trunk Assembly	Type-C	12	5	3.0	1	4.5	2	1/Bag	85SFFHA005K-CC61
12-Fiber MTP Female - MTP Female Plug & Play LSOH Trunk Assembly	Type-C	12	100	3.0	1	4.5	2	1/Bag	85SFFHA100K-CC61
12-Fiber MTP Female - MTP Female Plug & Play LSOH Trunk Assembly	Type-C	12	5	3.0	1	6.0	2	1/Bag	85SFFHA005P-CC61
12-Fiber MTP Female - MTP Female Plug & Play LSOH Trunk Assembly	Type-C	12	100	3.0	1	6.0	2	1/Bag	85SFFHA100P-CC61
24-Fiber MTP Female - MTP Female Plug & Play LSOH Trunk Assembly	Type-C	24	5	3.0	2	8.0	4	1/Bag	86SFFHA005P-CC61
24-Fiber MTP Female - MTP Female Plug & Play LSOH Trunk Assembly	Type-C	24	100	3.0	2	8.0	4	1/Bag	86SFFHA100P-CC61
48-Fiber MTP Female - MTP Female Plug & Play LSOH Trunk Assembly	Type-C	48	5	3.0	4	9.3	8	1/Bag	88SFFHA005P-CC61
48-Fiber MTP Female - MTP Female Plug & Play LSOH Trunk Assembly	Type-C	48	100	3.0	4	9.3	8	1/Bag	88SFFHA100P-CC61
72-Fiber MTP Female - MTP Female Plug & Play LSOH Trunk Assembly	Type-C	72	5	3.0	6	11.3	12	1/Bag	8BS <i>FF</i> HA005P-CC61
72-Fiber MTP Female - MTP Female Plug & Play LSOH Trunk Assembly	Type-C	72	100	3.0	6	11.3	12	1/Bag	8BS <i>FF</i> HA100P-CC61
96-Fiber MTP Female - MTP Female Plug & Play LSOH Trunk Assembly	Type-C	96	5	3.0	8	12.8	16	1/Bag	8DS <i>FF</i> HA005P-CC61
96-Fiber MTP Female - MTP Female Plug & Play LSOH Trunk Assembly	Type-C	96	100	3.0	8	12.8	16	1/Bag	8DSFFHA100P-CC61
144-Fiber MTP Female - MTP Female Plug & Play LSOH Trunk Assembly	Type-C	144	5	3.0	12	13.4	24	1/Bag	8ESFFHA005P-CC61
144-Fiber MTP Female - MTP Female Plug & Play LSOH Trunk Assembly	Type-C	144	100	3.0	12	13.4	24	1/Bag	8ES <i>FF</i> HA100P-CC61

All connectors in the above examples are low-loss type.

CenterLine

AT&T CenterLine Fiber Optic MTP Assemblies

MTP-LC Fiber Optic Harnesses

Description

MTP female to LC/UPC LS0H modular harnesses for plug & play panels Select a fiber from page B.6. Fiber type 12-fiber round cable Cable type Flame retardant LS0H compound Cable jacket material Cable jacket diameter 3.0 mm nom. Connector types One MTP female and twelve LC/UPC Standard & EU Directives Conformance

- Relevant sections of ANSI/TIA-568.3-D
- Relevant sections of ISO/IEC 11801
- Relevant sections of EN 50173
- Relevant sections of ANSI/TIA/EIA-604 (FOCIS)
- Relevant sections of IEC 60874
- Relevant sections of IEC 61753
- Relevant sections of IEC 61754
- IEC 60332-1 flame test
- IEC 60754 & IEC 61034
- EU Directive 2011/65/EU (RoHS-2) **Mechanical Properties**

Short term bend radius Long term bend radius Operating temperature

Default jacket colors

20xOD mm 10xOD mm -20 to +60C MM OM1 & OM2: Orange MM OM3: Turquoise MM OM4: Purple MM OM5: Lime SM: Yellow



Transmission Properties

Multimode Fibers - MTP Connectors

Singlemode Fibers - MTP Connectors Connector IL (dB) Connector RL (dB) Connector RL (dB) Connector Type Connector Type Connector IL (dB) 50 min. 55 Typical Standard Loss 0.50 max. 25 min. 30 Typical Standard Loss 0.50 max. 50 min. 55 Typical Low-Loss 0.35 max. 25 min. 30 Typical 0.35 max. low-loss Super Low-Loss 0.25 max. 25 min. 30 Typical Super Low-Loss 0.25 max. 50 min. 55 Typical

Multimode Fibers - LC Connectors

Multimode i ibers - i						
Connec	tor Type	Connecto	r IL (dB)	Connector RL (dB)		
Standard Loss		0.30 max. 0.3	20 Typical	25 min. 30	0 Typical	
Low-Loss		0.15 max. 0.1	0 Typical	25 min. 30 Typical		
Super Low-Loss		0.10 max. 0.0)5 Typical	25 min. 30 Typical		
Singlemode Fibers -	glemode Fibers - LC UPC Connectors Singlemode Fibers - LC APC Connec					
Connector Type	Connector IL (dB)	Connector RL (dB)	Connector Type	Connector IL (dB)	Connector RL (dB)	
Standard Loss	0.30 max. 0.20 Typical	50 min. 55 Typical	Standard Loss	0.30 max. 0.20 Typical	55 min. 60 Typical	
Low-Loss	0.15 max. 0.10 Typical	50 min. 55 Typical	Low-Loss	0.15 max. 0.10 Typical	55 min. 60 Typical	
Super Low-Loss	0.10 max. 0.07 Typical	50 min. 55 Typical	Super Low-Loss	0.10 max. 0.07 Typical	55 min. 60 Typical	

Ordering Information

CC: Jacket Color FF: Fiber Type

Description	MTP	LC	Fiber Count	Length m	Cable OD mm	Packaging	P/N
MTP Female to LC/UPC Plug & Play LS0H Harness	1	12	12	1	3.0	1/Bag	80SFFHA001N-CC61
MTP Female to LC/UPC Plug & Play LS0H Harness	1	12	12	3	3.0	1/Bag	80SFFHA003N-CC61
MTP Female to LC/UPC Plug & Play LS0H Harness	1	12	12	5	3.0	1/Bag	80SFFHA005N-CC61
MTP Female to LC/UPC Plug & Play LS0H Harness	1	12	12	10	3.0	1/Bag	80SFFHA010N-CC61

All connectors in the above examples are low-loss type.





AT&T CenterLine Fiber Optic MTP Assemblies

MTP-SC Fiber Optic Harnesses

Description

MTP female to SC/UPC LS0H modular harnesses for plug & play panels Fiber type Select a fiber from page B.6. Cable type 12-fiber round cable Cable jacket material Flame retardant LS0H compound Cable jacket diameter 3.0 mm nom. One MTP female and twelve SC/UPC Connector types

Standard & EU Directives Conformance

- Relevant sections of ANSI/TIA-568.3-D
- Relevant sections of ISO/IEC 11801
- Relevant sections of EN 50173
- Relevant sections of ANSI/TIA/EIA-604 (FOCIS)
- Relevant sections of IEC 60874
- Relevant sections of IEC 61753
- Relevant sections of IEC 61754
- IEC 60332-1 flame test
- IEC 60754 & IEC 61034
- EU Directive 2011/65/EU (RoHS-2)

Mechanical Properties

Short term bend radius	20xOD mm
Long term bend radius	10xOD mm
Operating temperature	-20 to +60C
	MM OM1 & OM2: Orange MM OM3: Turquoise
Default jacket colors	MM OM4: Purple MM OM5: Lime
	SM: Yellow



Sinalemode Fibers - MTP Connectors

Multimode Fibers - I	MTP Connectors		Singlemode Fibers -	MTP Connectors	
Connector Type	Connector IL (dB)	Connector RL (dB)	Connector Type	Connector IL (dB)	Connector RL (dB)
Standard Loss	0.50 max.	25 min. 30 Typical	Standard Loss	0.50 max.	50 min. 55 Typical
Low-Loss	0.35 max.	25 min. 30 Typical	Low-Loss	0.35 max.	50 min. 55 Typical
Super Low-Loss	0.25 max.	25 min. 30 Typical	Super Low-Loss	0.25 max.	50 min. 55 Typical

Multimode Fibers - SC Connectors

Transmission Properties

Connector Type	Connector IL (dB)	Connector RL (dB)
Standard Loss Low-Loss	0.30 max. 0.20 Typical 0.15 max. 0.10 Typical	25 min. 30 Typical 25 min. 30 Typical
Singlemode Fibers - SC UPC Connectors	Singlemode Fibers -	SC APC Connectors

Connector Type	Connector IL (dB)	Connector RL (dB)	Connector Type	Connector IL (dB)	Connector RL (dB)
Standard Loss	0.30 max. 0.20 Typical	50 min. 55 Typical	Standard Loss	0.30 max. 0.20 Typical	55 min. 60 Typical
Low-Loss	0.15 max. 0.10 Typical	50 min. 55 Typical	Low-Loss	0.15 max. 0.10 Typical	55 min. 60 Typical

Ordering Information

FF: Fiber Type CC: Jacket Color

Description	МТР	SC	Fiber Count	Length m	Cable OD mm	Packaging	P/N
MTP Female to SC/UPC Plug & Play LS0H Harness	1	12	12	1	3.0	1/Bag	80SFFHA001H-CC61
MTP Female to SC/UPC Plug & Play LS0H Harness	1	12	12	3	3.0	1/Bag	80SFFHA003H-CC61
MTP Female to SC/UPC Plug & Play LS0H Harness	1	12	12	5	3.0	1/Bag	80SFFHA005H-CC61
MTP Female to SC/UPC Plug & Play LS0H Harness	1	12	12	10	3.0	1/Bag	80SFFHA010H-CC61

All connectors in the above examples are low-loss type.





CenterLine

AT&T CenterLine Fiber Optic MTP Assemblies

MTP-ST Fiber Optic Harnesses

Description

MTP female to ST/UPC LSOH modular harnesses for plug & play panelsFiber typeSelect a fiber from page B.6.Cable type12-fiber round cableCable jacket materialFlame retardant LSOH compoundCable jacket diameter3.0 mm nom.Connector typesOne MTP female and twelve ST/UPCStandard & EU Directives Conformance

- Relevant sections of ANSI/TIA-568.3-D
- Relevant sections of ISO/IEC 11801
- Relevant sections of EN 50173
- Relevant sections of ANSI/TIA/EIA-604 (FOCIS)
- Relevant sections of IEC 60874
- Relevant sections of IEC 61753
- Relevant sections of IEC 61754
- IEC 60332-1 flame test
- IEC 60754 & IEC 61034
- EU Directive 2011/65/EU (RoHS-2)

Mechanical Properties

Short term bend radius Long term bend radius Operating temperature

Default jacket colors

20xOD mm 10xOD mm -20 to +60C MM OM1 & OM2: Orange MM OM3: Turquoise MM OM4: Purple MM OM5: Lime SM: Yellow



Transmission Properties

Multimode Fibers - MTP Connectors					Singlemode Fibers - MTP Connectors					
	Connector Type	Connector IL (dB)	Connector RL (dB)		Connector Type	Connector IL (dB)	Connector RL (dB)			
	Standard Loss	0.50 max.	25 min. 30 Typical		Standard Loss	0.50 max.	50 min. 55 Typical			
	Low-Loss	0.35 max.	25 min. 30 Typical		Low-Loss	0.35 max.	50 min. 55 Typical			
	Super Low-Loss	0.25 max.	25 min. 30 Typical		Super Low-Loss	0.25 max.	50 min. 55 Typical			

Multimode Fibers - ST Connectors

Connector Type	Connector IL (dB)	Connector RL (dB)
Standard Loss	0.30 max. 0.20 Typical	25 min. 30 Typical
Low-Loss	0.15 max. 0.10 Typical	25 min. 30 Typical

Singlemode Fibers - ST UPC Connectors Singlemode Fibers - ST APC Connectors Connector Type Connector IL (dB) Connector RL (dB) Connector Type Connector IL (dB) Connector RL (dB) Standard Loss 0.30 max. 0.20 Typical 50 min. 55 Typical Standard Loss 0.30 max. 0.20 Typical 55 min. 60 Typical Low-Loss 0.15 max. 0.10 Typical 50 min. 55 Typical Low-Loss 0.15 max. 0.10 Typical 55 min. 60 Typical

Ordering Information

FF:	Fiber	Туре	CC: Jacket	Color

Description	MTP	ST	Fiber Count	Length m	Cable OD mm	Packaging	P/N
MTP Female to ST/UPC Plug & Play LS0H Harness	1	12	12	1	3.0	1/Bag	80SFFHA001A-CC61
MTP Female to ST/UPC Plug & Play LS0H Harness	1	12	12	3	3.0	1/Bag	80SFFHA003A-CC61
MTP Female to ST/UPC Plug & Play LS0H Harness	1	12	12	5	3.0	1/Bag	80SFFHA005A-CC61
MTP Female to ST/UPC Plug & Play LS0H Harness	1	12	12	10	3.0	1/Bag	80SFFHA010A-CC61

All connectors in the above examples are low-loss type.



CenterLine

AT&T CenterLine Fiber Optic MTP Assemblies

MTP-FC Fiber Optic Harnesses

Description

MTP female to FC/UPC LSOH modular harnesses for plug & play panelsFiber typeSelect a fiber from page B.6.Cable type12-fiber round cableCable jacket materialFlame retardant LSOH compoundCable jacket diameter3.0 mm nom.Connector typesOne MTP female and twelve FC/UPCStandard & EU Directives Conformance

- Relevant sections of ANSI/TIA-568.3-D
- Relevant sections of ISO/IEC 11801
- Relevant sections of EN 50173
- Relevant sections of ANSI/TIA/EIA-604 (FOCIS)
- Relevant sections of IEC 60874
- Relevant sections of IEC 61753
- Relevant sections of IEC 61754
- IEC 60332-1 flame test
- IEC 60754 & IEC 61034
- EU Directive 2011/65/EU (RoHS-2)

Mechanical Properties

Short term bend radius	20xOD mm
Long term bend radius	10xOD mm
Operating temperature	-20 to +60C
Default jacket colors	MM OM1 & OM2: Orange MM OM3: Turquoise MM OM4: Purple MM OM5: Lime SM: Yellow



Multimode Fibers - N	ATP Connectors		Singlemode Fibers -	MTP Connectors	
Connector Type	Connector IL (dB)	Connector RL (dB)	Connector Type	Connector IL (dB)	Connector RL (dB)
Standard Loss	0.50 max.	25 min. 30 Typical	Standard Loss	0.50 max.	50 min. 55 Typical
Low-Loss	0.35 max.	25 min. 30 Typical	Low-Loss	0.35 max.	50 min. 55 Typical
Super Low-Loss	0.25 max.	25 min. 30 Typical	Super Low-Loss	0.25 max.	50 min. 55 Typical

Multimode Fibers - FC Connectors

Connector Type	Connector IL (dB)	Connector RL (dB)
Standard Loss Low-Loss	0.30 max. 0.20 Typical 0.15 max. 0.10 Typical	25 min. 30 Typical 25 min. 30 Typical
Singlemode Eibers EC UDC Connectors	Singlamada Eibara	EC ADC Connectors

Singlemode Fibers -	FC UPC Connectors		Singlemode Fibers -	FC APC Connectors	
Connector Type	Connector IL (dB)	Connector RL (dB)	Connector Type	Connector IL (dB)	Connector RL (dB)
Standard Loss Low-Loss	0.30 max. 0.20 Typical 0.15 max. 0.10 Typical	50 min. 55 Typical 50 min. 55 Typical	Standard Loss Low-Loss	0.30 max. 0.20 Typical 0.15 max. 0.10 Typical	55 min. 60 Typical 55 min. 60 Typical

Ordering Information

FF: Fiber Type CC: Jacket Color

Description	МТР	FC	Fiber Count	Length m	Cable OD mm	Packaging	P/N
MTP Female to FC/UPC Plug & Play LS0H Harness	1	12	12	1	3.0	1/Bag	80SFFHA001E-CC61
MTP Female to FC/UPC Plug & Play LS0H Harness	1	12	12	3	3.0	1/Bag	80SFFHA003E-CC61
MTP Female to FC/UPC Plug & Play LS0H Harness	1	12	12	5	3.0	1/Bag	80SFFHA005E-CC61
MTP Female to FC/UPC Plug & Play LS0H Harness	1	12	12	10	3.0	1/Bag	80SFFHA010E-CC61

All connectors in the above examples are low-loss type.









Data centers are broken into on a regular basis. In many cases, the intention is simply to steal high-quality IT equipment. However, breaking in may only be a pretense for stealing data and/or putting in place a man-in-the-middle infrastructure.

On 28 February 2011 for example, an important data center belonging to a global telecommunications service provider was paralyzed by intruders. Only a few weeks previously, a DC service provider working on behalf of a major health care company became the victim of an attempted break-in, which resulted in the entire security concept undergoing a TÜV audit. Generally speaking, attacks of this kind go undetected. Data centers are security areas and therefore need to be secured through various measures. An important part of this is controlling access to and in the data center.

Controlling access to the data center is usually achieved through a combination of organizational measures, e.g., gates and turnstiles, besides a building access control system.







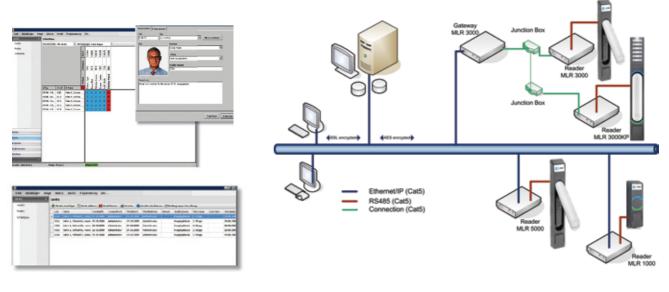
Working with various partners, AT&T Cabling Systems has developed system concepts which not only improve physical security through access controls within the data center but also simplify operative processes, making them less susceptible to errors. These concepts are known as "@Lock".



Transponder Card System @Lock "Transponder Card System" Concept

This system concept can be applied throughout – from the DC and cold aisle doors to the individual cabinets. In addition to the card readers and handles, the extensive "Administration Suite" management software is a key part of the system.

Thanks to its modular design and open infrastructure architecture, the new Administration Suite can be expanded as required and can also be implemented for third party providers.



- Encrypted data communication between the hardware, server and client.
- Runs on Windows 2000, Windows XP, Windows Vista, Windows Server 2003, Windows Server 2008, Citrix[®].
- Allows administration of various users with different types of authorization.
- Client/server capability.
- · Web client-capable, SNMP alarming.
- Record changes made to the system by users.
- Straightforward user guidance in spite of extensive tools.
- Wide range of alarm messages.
- · Automatic alarm notification via e-mail.
- · Centralized locking plans and access management.

- Freely selectable four-eyes-principle.
- Support for the most common transponder types.
- Central management of various systems.
- Records all actions in "Log Events".
- Free replacement of the lock system if the authorizing medium is lost.
- Real-time visualization of the swing handle stations.
- · Configuration of special days with different locking regimes.
- Allocation of time profiles for access.
- Able to export "Log Events".
- Multilingual software.



MLR 3000 and MLR 5000 handles are suitable for linking server or network cabinets to the transporter card system. The E-LINE, by Dirak mechatronic swing handles and the Administration Suite software, provide a convenient, reliable way of monitoring access to your data or server cabinet. With the Administration Suite software, security officers can conveniently monitor and manage access directly from a PC. The integrated LEDs display alarm messages and types of authorization on the handle itself.

As a result, technicians on site are given the same information that the Administration Suite software sends to the headquarters. LEDs at the top and bottom of the handle offer permanently high luminosity with low power consumption. As a result, the lock status can be determined quickly, even from a distance of several meters. The top LED can indicate various statuses, such as that the handle is ready to be opened or locked. The bottom LED displays whether the handle is within or outside the temperature range for the cabinet selected by the customer. As a result, irregularities may be identified quickly, leaving enough time for appropriate action to be taken.

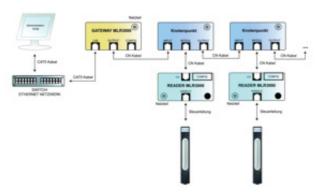


The information display integrated into the handle is backlit and allows customer-specific information, such as the cabinet row, cabinet number etc., to be added for extra clarity.

Handles are also available with integrated Keypad (MLR5000KP). They can be used with either keycard, keypad or both (two-factor- authentication).



@LockMLR3000



Technical Data – @Lock MLR3000/5000

Handle Electronics

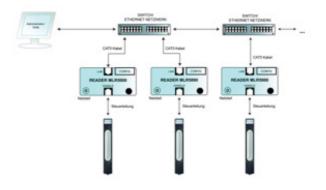
Two-part hardware design Visualization Reader

Reader

Housing Power supply Standby current (system ready) Max. current consumption (with connector tightening) RS232 interface for MLR3000 Current increase for MLR5000 via Ethernet interface TCP/IP interface Connecting cable (reader - handle electronics)

Relay output (via screw clamps) Door contact input (via screw clamps) RS485 interface Memory capacity for transponder cards Memory capacity for events Memory capacity for time profiles Integrated real-time clock Temperature range

@LockMLR5000



Swing handle and reader unit Multicolored status LED For 125 kHz transponders (HID 26 bit system), alternatively 13.56 MHz (MIFARE)

Reader unit in plastic housing can be fixed with screws or self-adhesive pad 12 V \pm 10 % (DC) via low voltage socket 40 mA (DC) 440 mA (DC) RS232 cable (RXD, TXD, GND, Reader present, PC present), 38,400 baud 125 mA (DC) Ethernet, 10100 Autosense, up to 100 Mbaud 8-pole, 350 cm, UL stranded wire AWG 26, one side with gated RJ45 plug, one side with crimped JST ZH connector ZHR-8 2.5 mm², can be screwed in from plug side, relay contact: 12 V, 3 A, 60 W, 120 2.5 mm², can be screwed in from plug side, terminals 1 and 2 RS485 cable to the E-LINE by DIRAK Gateway, (+/A, -/B), 38,400 baud 2000 + 1 master transponder 500 (ring memory) 30 With buffering of up to 60 min at 25 °C -20°C - +70°C



Ordering Information

Description	Dimensions mm	Ordering Information	Unit
@LockMLR3000	for RCE and DCE front door	01.180.225.9	1 unit
@LockMLR3000	for twin door (e.g. DCE rear door)	01.180.227.9	1 unit
@LockMLR5000	for RCE and DCE front door	01.180.228.9	1 unit
@LockMLR5000	for twin door (e.g. DCE rear door)	01.180.229.9	1 unit
@LockMLR5000KP	for RCE and DCE front door	01.180.240.9	1 unit
@LockMLR5000KP	for twin door (e.g. DCE rear door)	01.180.241.9	1 unit

Ordering Information - Accessories

Description	Ordering Information	Unit
Door contact	06.108.115.9	1 unit
HID transponder card	01.180.040.9	1 unit
Desktop reader for the initial reading of transponder cards	01.180.040.9	1 unit
MLR3000 Gateway	01.180.111.9	1 unit
Plug-in power supply (Europe)	01.180.035.9	1 unit

Other plug-in power supplies on request



Technical Data – MLU3000/5000

MLU Card Readers can be used to Connect a Room Door with Existing Electromechanical Locking or Motorized Cold Aisle Door (Coolfex):

- Three-part hardware design MLU3000 set comprising: external MLU reader, network reader unit and MLU1000 lock.
- Visualization on MLU reader: 2 x multicolored status LEDs and 1 x backlit information display.
- Antenna for 125 kHz transponders (HID 26 bit system).
- Optional MLU1000 lock
 - Die-cast zinc (GDZn), color: mat chrome.
 - 4 m control cable.
 - Power supply 24 V DC +/- 10 % 100 mA.
 - Proximity sensor status contact.
 - Wall/sheeting thickness independent.
 - Electronic opening by interrupting the power supply.
- MLU3000/MLU5000 network reader
 - Housing reader unit in plastic housing can be fixed with screws or a self-adhesive pad.
 - Nominal input voltage 12/24/48 V ± 10 % (DC) depending on the electronic lock connected.
 - Standby current (system ready) 40 mA (DC).
 - Max. current consumption RJ12 (LOCK) 1.5 A (DC).
 - Max. current consumption via relay clamp 3.0 A (DC), clamps 10-11.
 - RS232 interface RS 232 cable (RXD, TXD, GND, Reader present, PC present), 38,400 baud.
 - Connecting cable (reader external MLU antenna) 8-pole, 350 cm, UL stranded wire AWG 26, one
 - side with gated RJ45 plug, one side with crimped JST ZH connector ZHR-8.
 - Relay output (via screw clamps) 2.5 mm, can be screwed on from plug side, relay contact: 12 V, 3 A,
 - 60 W, 120 VA, terminals 3 5.
 - Door contact input (via screw clamps) 2.5 mm² can be screwed from plug side, terminals 1 and 2.
 - RS485 RS485 interface cable to the E-LINE by DIRAK Gateway, (+/A, -/B), 38,400 baud (MLU3000).
 - TCP/IP Ethernet interface, 10/100 Autosense, up to 100 Mbps (MLU5000).
 - Power off when open/closed: depending on the electronic lock connected, this is configured in the Administration Suite Config Tool.
 - Memory capacity for transponder cards 2000: + 1 master transponder.
 - Memory capacity for events: 500 (ring memory).
 - Memory capacity for time profiles: 30.
 - Integrated real-time clock with buffering of up to 60 min at 25 °C.
 - Temperature range -20°C +70°C.





BlueID @Lock "Blue ID" System Concept

@Lock BlueID is an innovative data center locking system which is highly flexible and user-friendly. Instead of a set of keys or transponder cards, "virtual" keys, kept on mobile communication devices (smartphones, tablets etc.), are used. These virtual keys are transferred to a mobile device via SMS. No online access is necessary to use the keys.

Technical Data – BlueID Control System

- Dimensions: 157 x 86 x 58 mm (WxHxD) plus antenna and plug.
- Weight: 0.24 kg.
- Temperature range storage: -40°C to +85°C.
- Temperature range operation: -20°C to +70°C.
- Supply voltage: 7-32 V DC; max: 400 mA.
- Power consumption: 2 W.
- Relay switching voltage (max.): 250 V AC.
- Relay switching current (max.): 5 A.
- Contact clamps (potential-free): 4 x 2.
- Optocoupler inputs (potential-free): 4 x 2.
- Connection: Bluetooth 2.0 EDR.
- Connection: Ethernet (RJ45).
- Connection: WLAN/WiFi (optional, with BlueID WLAN/WiFi upgrade accessory, Art. No. 4260200780775).

Ordering Information

Description	Ordering Information	Unit
AT&T Cabling Systems bundle. @LockBlueID for DCE	01.180.320.0	1 unit
Package of 100 daily tickets	01.180.321.0	1 unit
Package of 10 yearly tickets	01.180.322.0	1 unit
Package of 10 reload tickets	01.180.323.0	1 unit

The locking system comprises MLR1000 handles, a BlueID control system, a power supply, vouchers for generating keys (100 daily tickets, 10 yearly tickets, 10 reload tickets) and installation materials. Additional ticket packages or two additional MLR1000 handles per BlueID box can be ordered separately.

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Potential-Free Contacts @Lock "Potential-Free Contacts" System Concept

Swing handles from the @Lock MLR1000 range are suitable for connecting electromechanical swing handles to existing building management systems or local identification systems, in addition to complementing @LockBlueID or rack monitoring systems.

The handle can be opened as soon as its potentialfree contacts are activated or a voltage of 12-24 V DC is supplied. Following activation, the MLR1000 switches to ready-to-open status. During this period, the user can open the MLR1000 by pressing a button. The LED at the top of the handle offers permanently high luminosity with a low power consumption. As a result, the lock status can be determined quickly, even from a distance of several meters.

The information display integrated into the handle is backlit and allows customer-specific information such as the cabinet row, cabinet number etc., to be added for further clarity.

Technical Data – @LockMLR1000

Handle Electronics	
Two-part hardware design	MLR1000 and MLR1000 Box
Visualization	Status LED
MLR1000 Box	
Housing	Interface unit, plastic housing can be fixed with screws or self-adhesive pad
Power supply	12 V DC ± 10 % via screw clamps
Standby current (system ready)	40 mA (DC)
Max. current consumption	410 mA (DC)
(with connector tightening)	
Operating mode	100 % ED
Relay control	12V DC
Operating time	Max. 3 seconds
Contact output	250 V AC, 2 A
Installation position	Vertical
Connection type	Screw clamps, 2.5mm ²
Connecting cable(reader - handle electronics)	8-pole, 350 cm, UL stranded wire AWG 26, one side with gated RJ45 plug, one side with crimped JST ZH connector ZHR-8
Temperature range	-20°C – +70°C



	@Lock MLR5000	@Lock MLR3000	@Lock MLR1000	@Lock BluelD
Software necessary	Admin Suite	Admin Suite	Custom	Web browser, Mobile phone app
E-Line Administration Suite Software	Yes	Yes	No	No
External emergency power supply connector	Yes	Yes	Yes	No
Identification	Transponder card	Transponder card	Dependent on customer's equipment and software	BlueID
IP support	Yes	Gateway	No	Optional
Log files	Yes (in combination w. Administration Suite)	Yes (in combination w. Administration Suite)	Dependent on customer's equipment and software	Optional
User profiles	Yes (in combination w. Administration Suite)	Yes (in combination w. Administration Suite)	Dependent on customer's equipment and software	No
Four-eyes-principle	Yes (in combination w. Administration Suite)	Yes (in combination w. Administration Suite)	Dependent on customer's equipment and software	Yes
Off-line mode	No	No	No	Yes
Technology partner	Eline by Dirak	Eline by Dirak	Eline by Dirak	BlueID by Baimos Technologies

Туре	Model	Ordering Information	UP
@LockMLR1000	for RCE and DCE front door	01.180.224.9	1 unit
@LockMLR1000	for twin doors (e.g. DCE rear door)	01.180.226.9	1 unit





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