



SYSTIMAX® InstaPATCH® Plus Connectivity
Solution for the Brocade® 48000 Director

The ideal connectivity system for SAN directors

Brocade
Data Center
Ready



SYSTIMAX®
SOLUTIONS



Giving data center managers the ideal integrated connectivity system solution: the SYSTIMAX® InstaPATCH® Plus for the Brocade® 48000 Director.

Why InstaPATCH Plus for SAN director connectivity?

Data center managers need high-performance infrastructure solutions to handle high-volume, business-critical hosting and backup needs. The essential nature of these applications require:

- extreme service reliability
- quick changes, additions and expansion
- high performance
- easy migration to future technologies
- high density
- long-term cost effectiveness, including installation, administration, scalability, warranty and maintenance

The SYSTIMAX® InstaPATCH® Plus Fiber system is designed to meet the following needs:

- handle data rates from 1 Gbps through 10 Gbps
- be quickly and efficiently reconfigured
- support multiple fiber connectivity types
- meet security, electromagnetic and environmental challenges
- be configured for high-density and to alleviate overcrowding in cabinets

InstaPATCH Plus connectivity solution for the Brocade® 48000 Director

CommScope® and Brocade®, recognizing the benefits that this system provides for data center managers, have partnered to create a uniquely integrated solution for the Brocade 48000 Director. This InstaPATCH Plus-enabled solution provides a number of advantages for data center managers, including:

- self-contained director connectivity in a single cabinet or rack providing isolation from day to day management
- scalability; a single enclosure can provide connectivity for up to two directors in one cabinet
- supports the various Brocade fiber card configurations from 16, 32 and 48 ports for low to high density applications
- uses standard SYSTIMAX InstaPATCH Plus array patch cords, modules, and trunks for connectivity; no special cables, enclosures or panels are required
- single-mode and multimode modules accommodate mixed fiber types
- trunk cables' round design reduce OD per fiber count, with no preferential bend issues

- trunk cables contain integrated strain relief and breakout is field-configurable
- director end connect hardware can support up to 576 ports (1152 fibers) using MPO connectivity in one 4U shelf
- cross-connect hardware can contain 144 ports (288 fibers) in one 4U shelf
- integrated trunk mounting with shelf and rack brackets
- provides a structured cabling system for equipment connectivity
- adds flexibility and reduces legacy issues with direct connect patch cords under floor
- less cable under floor improves air movement
- follows TIA/EIA 942 standards for cross connection points

InstaPATCH Plus advantages

The advantages InstaPATCH Plus brings to this connectivity solution are myriad, including:

- up to 60% increase in bandwidth
- up to 96% installation time savings for 96 LC connections
- up to 50% space savings due to increased density
- supports LazrSPEED® 50µm multimode and TeraSPEED® zero water peak single-mode fiber applications
- all modules are based on LazrSPEED 300 or TeraSPEED fibers to provide headroom for future system upgrades
- 12-fiber MPO connector-based modular design for simple connections
- automatic shutter for LC adapters
- easy reconfiguration for moves, adds and changes
- factory terminated and tested for instant field connections with guaranteed quality and performance
- developed by CommScope Labs and backed by the best-in-industry SYSTIMAX warranty

The combination of InstaPATCH Plus and the Brocade 48000 Director makes for an ideal, cost-effective solution for multilayer directors, with low-maintenance hardware and headroom and flexibility for future expansion and reconfiguration.

Product ordering and configuration

Step 1 : Choose the modular shelf

Modular shelves, installed at cross-connect

Material ID	Description	Product Code
760066084	1U internal sliding shelf, supports three DM2 modules (not included)	600G2-1U-IP-IS
760055475	1U fixed shelf, supports three DM2 modules (not included)	600G2-1U-IP-FX
760055467	1U sliding shelf, supports three DM2 modules (not included)	600G2-1U-IP-SD
760026245	4U sliding shelf, supports 12 DM2 modules (not included)	1000G2-4U-IP-SD
760050872	4U fixed shelf, supports 12 DM2 modules (not included)	1000G2-4U-IP-FX
760058651	Shelf mount bracket, supports up to eight 48-144 fiber trunks mounted to one 1000G2 shelf	SMB-8-1/2
760058685	Rack mount bracket, supports up to six 12 or 24 fiber trunks mounted to rack	RMB-6-3/8
760058677	Rack mount bracket, supports up to six 48-144 fiber trunks	RMB-6-1/2
760016063	Blank Panel for MP-1U and G2-IP shelves, black, six pack	Blank Panel



600G2-1U-IP-IS Shelf

Step 2 : Choose the modules

Factory terminated modules, installed at cross-connect

Material ID	Description	Product Code
760039685	LazrSPEED Multimode LC-MPO 24 fiber	DM2-24LC-LS
760039701	TeraSPEED Single-mode LC-MPO 24 fiber	DM2-24LC-SM
760039727	LazrSPEED Multimode LC-MPO 12 fiber	DM2-12LC-LS
760039743	TeraSPEED Single-mode LC-MPO 12 fiber	DM2-12LC-SM



DM2-24LC-LS Module

Step 3 : Choose the modular shelf, MPO panel and horizontal cable manager

Modular shelves, MPO panel and horizontal cable manager installed at director equipment cabinet

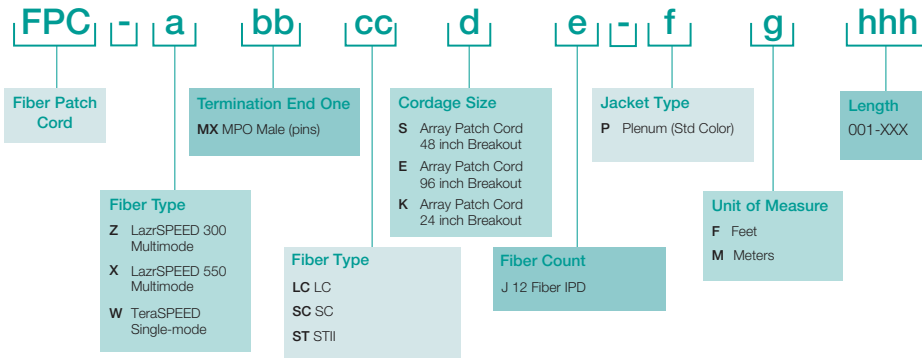
Material ID	Description	Product Code
760026245	4U sliding shelf, supports 12 DM2 panels (not included)	1000G2-4U-IP-SD
760050872	4U fixed shelf, supports 12 DM2 panels (not included)	1000G2-4U-IP-FX
760058651	Shelf mount bracket, supports up to eight 48-144 fiber trunks mounted to one 1000G2 shelf	SMB-8-1/2
760058685	Rack mount bracket, supports up to six 12 or 24 fiber trunks mounted to rack	RMB-6-3/8
760058677	Rack mount bracket, supports up to six 48-144 fiber trunks	RMB-6-1/2
760056077	InstaPATCH DP-8 MPO Adaptor Panel, 8x MPO	DP-8 MPO
760034280	InstaPATCH DP-6 MPO Adaptor Panel, 6x MPO	DP-6 MPO
760015412	InstaPATCH DP-2 MPO Adaptor Panel, 2x MPO	DP-2 MPO
760016063	Blank Panel for MP-1U and G2-IP shelves, black, six pack	Blank Panel
760072959	2 RU 19" (48.3cm) SS Horizontal Trough Kit	HTK-19-SS-2U
760072967	3 RU 19" (48.3cm) SS Horizontal Trough Kit	HTK-19-SS-3U



1000G2-4U-IP-SD Shelf

Step 4 : Choose array patch cords

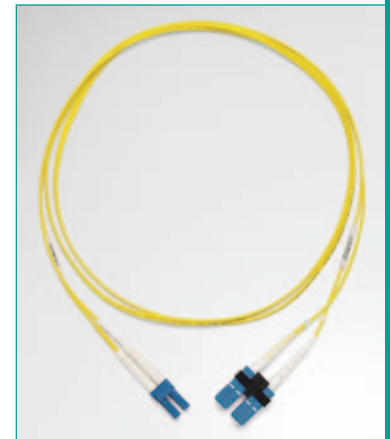
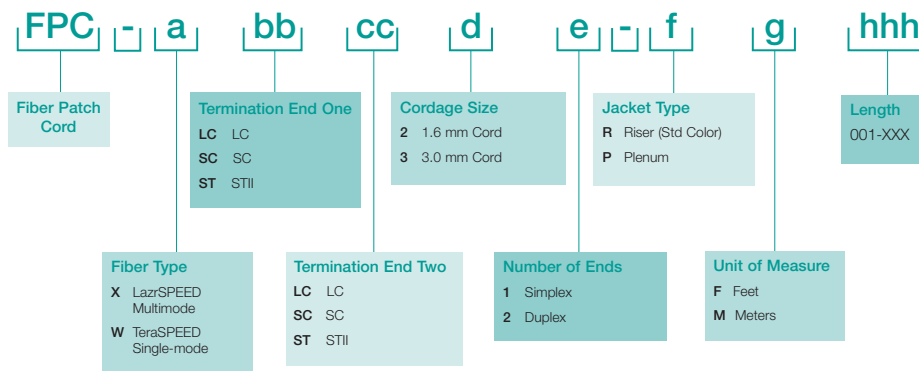
Array patch cords, installed at director equipment cabinet



LazrSPEED 300 12 Strand Array Cord
MPO(m)-LC Plenum FPCZMXLCSJ-P

Step 5 : Choose fiber patch cords

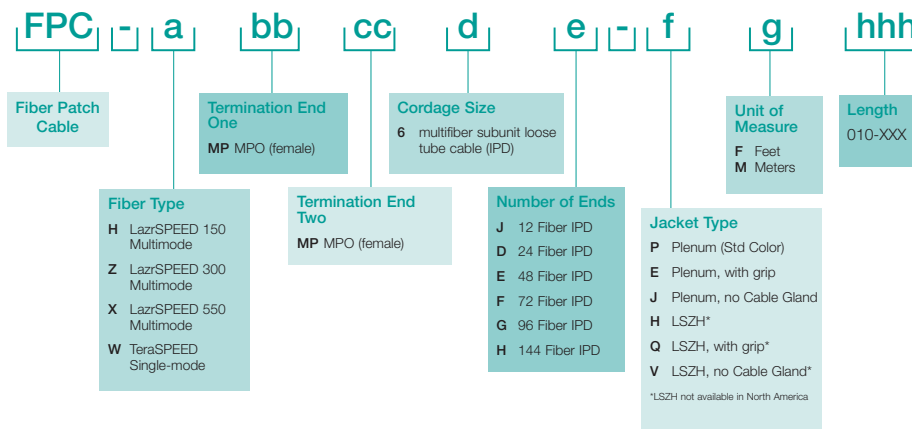
Fiber patch cords, installed at cross-connect equipment



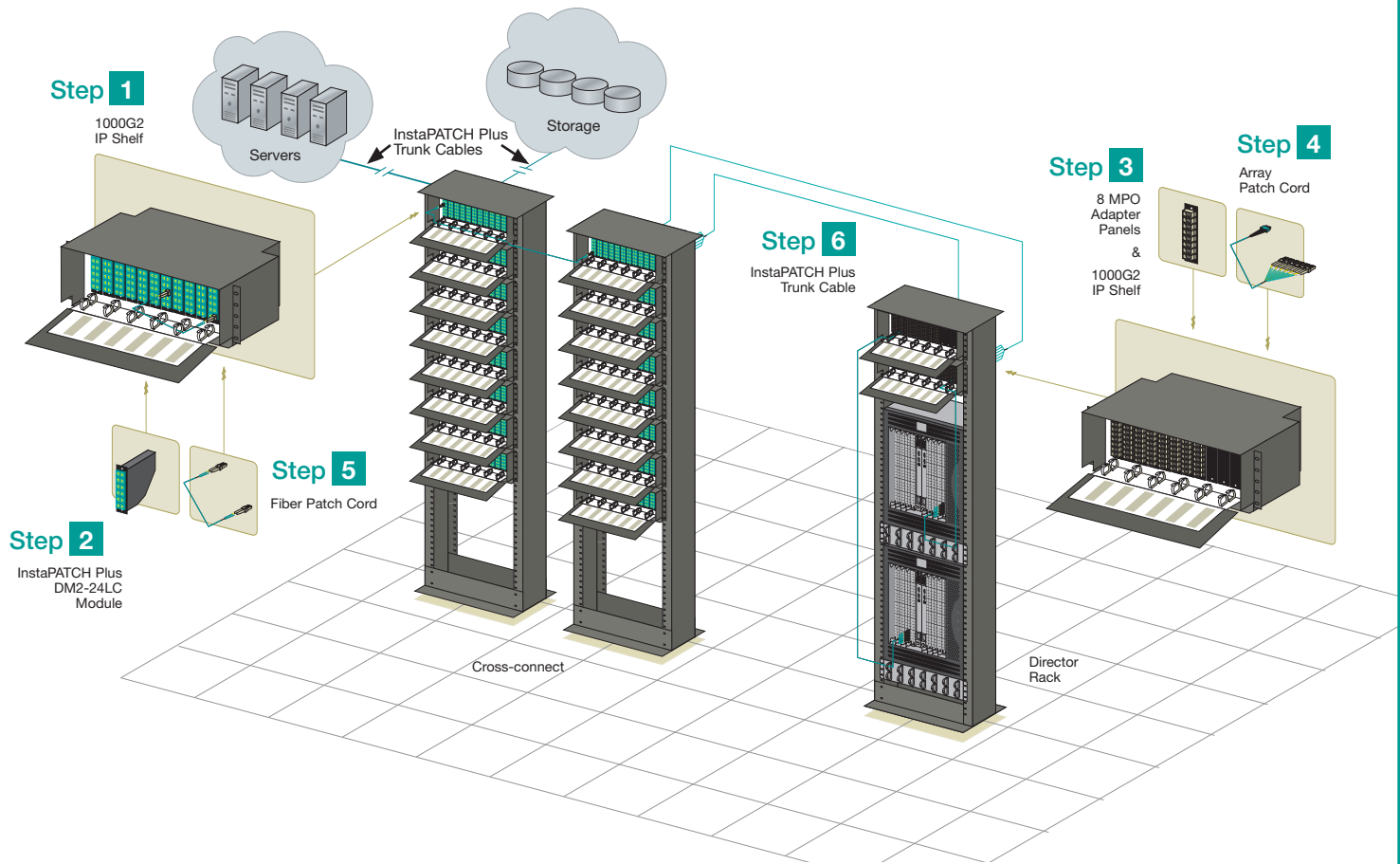
TeraSPEED Patch Cord LC-SC 1.6mm
Duplex FPCWLCS22

Step 6 : Choose trunk cables

Pre-terminated InstaPATCH-IPD trunk cables



LazrSPEED 300 Trunk Cable 72 Strand
MPO(f)-MPO(f) Plenum FPCZMPMP6F-PFxxx



Example BOM for (1) Brocade 48000 Director w/ (8) 32 port FC blades

DIRECTOR CABINET/RACK:

(1)	760050872	1000G2-4U-IP-FX Shelf
(8)	760056077	DP-8MPO Panels
(1)	760072967	HTK-19-SS-3U Horizontal Manager
(1)	760058651	SMB-8-1/2 Trunk Mount Brackets
(1)	760016063	Blank Panel, six pack
(48)	FPCZMXLCSJ	Array Patch Cord
		[specify lengths per configurator]

CROSS-CONNECT CABINET/RACK (FULLY POPULATED):

(4)	760050872	1000G2-4U-IP-FX Shelves
(48)	760039685	DM2-24LC-LS Modules
(1)	760058651	SMB-8-1/2 Trunk Mount Brackets
(288)	FPCXLCLC22	Fiber Patch Cords
		[specify lengths per configurator]

TRUNK CABLE ASSEMBLIES (DIRECTOR TO CROSS-CONNECT ONLY):

(8)	FPCZMPMP6F	Trunk Cables, 72 fiber
		[specify lengths per configurator]

The combination of InstaPATCH Plus and the Brocade 48000 Director makes for an ideal, cost-effective solution.

InstaPATCH Plus at a glance:

- pre-terminated hardware
- pre-terminated backbone trunk cables
- standard fiber patch cords
- easy installation and system maintenance
- future upgrade paths to parallel connectivity
- no special polarity requirements
- four-orientation labeling system
- supports a range of connector types and fiber speeds



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