LiNC & ESTR
ISP Solutions

Amphenol
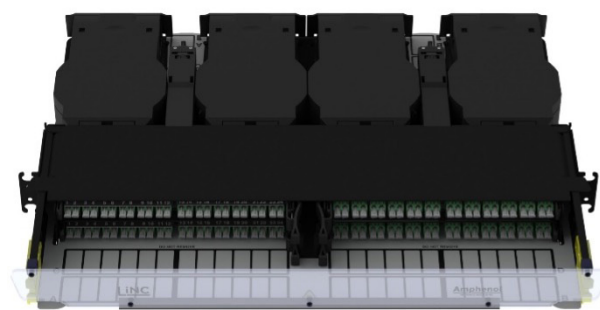**Broadband Solutions®**

LiNC is Amphenol's revolutionary rapid-deployment multi-fiber end-to-end solution. LiNC consists of our streamlined 1RU 19/23" rack/cabinet mount LiNC chassis, up to four 12 or 24 fiber LiNC MPO breakout modules, and the time-saving option of ready-to-use 12/24F MPO-MPO factory integrated spooled trunk cables, with up to 200 feet of fiber for rapid deployment.

The LiNC system provides instantaneous 12/24 Fiber MPO-MPO trunk cable deployment with 12 or 24 breakout ports; just unspool the factory terminated MPO cable assembly from the near-end chassis integrated reel and run the MPO cable to the far-end LiNC chassis equipped with the MPO 12/24F breakout module for highly reliable, high-performance fiber networks. The chassis-mount reel of 12/24F trunk cable eliminates the need to measure exact lengths and then wait for cable fabrication and delivery. Unspooling just the exact cable length needed eliminates the slack management issues that come from ordering cable assemblies with added in slack margin. LiNC eliminates the need for fiber-expert installers or data center technicians.

Amphenol's LiNC takes the complexity out of fiber deployment with its ready-to-use MPO plug-and-go technology. It is cost-effective, reliable, and easy to install for instantaneous deployment in central offices, data centers, headends, PONs and premise LAN applications.

LiNC with 96 LCU 4x24F MPO Spooled

LiNC Module (24F LC/APC)

Features:

- Single Part Ordering Near-End and Far-End System
- 1RU Chassis supports 4 Integrated Spool mounts
- Up to 48 SC or 96 LC Breakout ports
- Up to four 12F and 24F MPO LiNC modules per chassis
- Rapid-deploy MPO-MPO connectorized factory spooled trunk cables per chassis

- Eliminates fiber slack storage needs
- Hassle free magnetic quick view Clear Front Door
- Chassis slide-back top cover for ease of access
- Designed for simplified connector cleaning process
- Single handed module pull-out to access LC connectors safely and securely

LiNC System Specifications:	
Chassis Dimensions	18.6" W x 14.3" D x 1.75" H
Chassis Mounting	19 in, 23 in EIA or WECO
Trunk Spool Qty per Chassis	4
Standard Trunk Spool Max Length*	45 ft* with 24 Fiber, 100ft* with 12 Fiber
Distribution Connector Types	LC/UPC, LC/APC, SC/UPC, SC/APC
Ports per LiNC Module	12 SC or LC, 24 LC
Ports per LiNC Chassis	48 SC, 96 LC
Fiber Modes	SM - G.657.A1, MM - OM4 MM
Trunk Spool Connector (Far-end)	MPO (Pinned) or (Unpinned)
LiNC Module Trunk Connector	MPO (Unpinned)
MPO Trunk Fiber Capacity (Size)	12 Fiber (2mm) or 24 Fiber (2mm or 3mm)

* Optional auxiliary spool available for lengths up to 200 ft

ESTR Tray Routing Guide

Features:

- Available in 1RU (single tray) and 2RU (3 tray) configurations
- Robust bend radius protection throughout
- Multiple routing options for different slack lengths
- Multiple trays for fiber segregation for reduced fiber disturbance when accessing jumpers
- Scalable and low profile

Fiber: Amphenol E-Series Storage Tray

The E-Series is a shallow depth (ETSI compatible <12") platform that uses trays with integrated articulating links to maintain bend radius while accessing the fibers. The ESTR Storage tray provides numerous paths for routing excess jumper slack depending on the length needed.
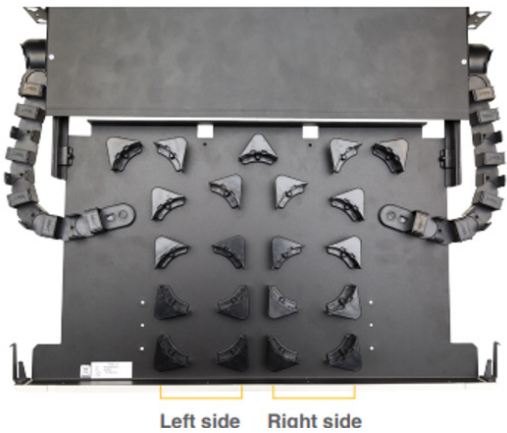
This document shows various routing methods for 3-6 ft slack lengths. Either the left set or right set of bend radius managers may be used to take slack.

ESTR - Tray Capacity Counts

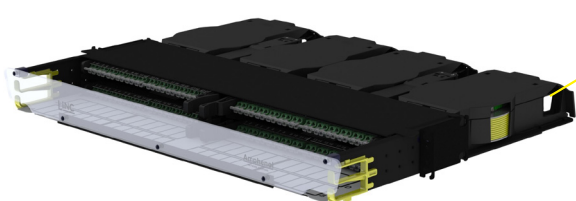| Slack Amount	2.0 mm	1.6 mm	1.2 mm
2 FT	40 Strands	48 Strands	72 Strands
3 FT	40 Strands	48 Strands	72 Strands
4 FT	40 Strands	48 Strands	72 Strands
5 FT	24 Strands	24 Strands	36 Strands
6 FT	24 Strands	24 Strands	36 Strands

1RU = 1 Tray
2RU = 3 Tray

Empty Tray - Top view

Left side   Right side

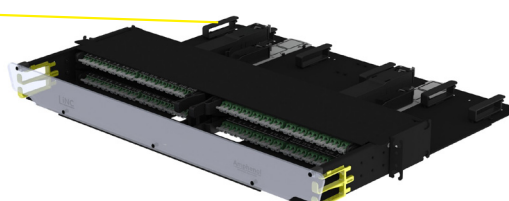## Ordering Information

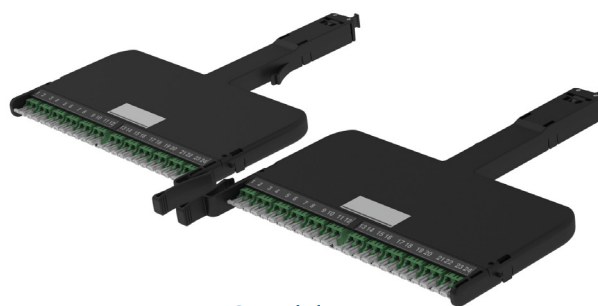| Description	Part Number
Paired Solution Kits *	
LINC SYSTEM, 1RU KIT, 48 LC/APC CAPACITY, 100F (NEAR and FAR-END CHASSIS)	LINC-1RUK-48LCA1-100F
LINC SYSTEM, 1RU KIT, 48 LC/APC CAPACITY, 200F (NEAR and FAR-END CHASSIS)	LINC-1RUK-48LCA1-200F
LINC SYSTEM, 1RU KIT, 96 LC/APC CAPACITY, 45F (NEAR and FAR-END CHASSIS)	LINC-1RUK-96LCA2-45F
LINC SYSTEM, 1RU KIT, 96 LC/APC CAPACITY, 100F (NEAR and FAR-END CHASSIS)	LINC-1RUK-96LCA2-100F
LINC SYSTEM, 1RU KIT, 96 LC/APC CAPACITY, 200F (NEAR and FAR-END CHASSIS)	LINC-1RUK-96LCA2-200F
Spare MPO Modules	
LINC MODULE: 12F MPO, LC/APC, SM, BREAKOUT, A POLARITY, ULL, POSITION A	LINC-M121GS-A
LINC MODULE: 12F MPO, LC/APC, SM, BREAKOUT, A POLARITY, ULL, POSITION B	LINC-M121GS-B
LINC MODULE: 12F MPO, LC/APC, SM, BREAKOUT, A POLARITY, ULL, POSITION C	LINC-M121GS-C
LINC MODULE: 12F MPO, LC/APC, SM, BREAKOUT, A POLARITY, ULL, POSITION D	LINC-M121GS-D
LINC MODULE: 24F MPO, LC/APC, SM, BREAKOUT, A POLARITY, ULL, LEFT	LINC-M241GS-L
LINC MODULE: 24F MPO, LC/APC, SM, BREAKOUT, A POLARITY, ULL, RIGHT	LINC-M241GS-R
**Spare Trunk Spools ** **	
SPOOL ASSY: CARTRIDGE, OFNP, SM BIF, 12F, ULL MPO(F), 100FT, 2MM, MINI BOOT, A POLARITY	LINC-C121FF-SB-100F-A
SPOOL ASSY: CARTRIDGE, OFNP, SM BIF, 12F, ULL MPO(F), 200FT, 2MM, MINI BOOT, A POLARITY	LINC-C121FF-SB-200F-A
SPOOL ASSY: CARTRIDGE, OFNP, SM BIF, 24F, ULL MPO(24)(F), 45FT, 3MM, MINI BOOT, A POLARITY	LINC-C241FF-SB-045F-A
SPOOL ASSY: CARTRIDGE, OFNP, SM BIF, 24F, ULL MPO(24)(F), 100FT, 3MM, MINI BOOT, A POLARITY	LINC-C241FF-SB-100F-A
SPOOL ASSY: CARTRIDGE, OFNP, SM BIF, 24F, ULL MPO(24)(F), 200FT, 3MM, MINI BOOT, A POLARITY	LINC-C241FF-SB-200F-A
ESTR Chassis	
E-Series Storage Tray in 1RU Chassis with 19/23" BRKTS-BLK	ESTR-1RU-BLK
E-Series Storage Tray in 2RU Chassis with 19/23" BRKTS-BLK	ESTR-2RU-BLK

* Additional solution kits available.
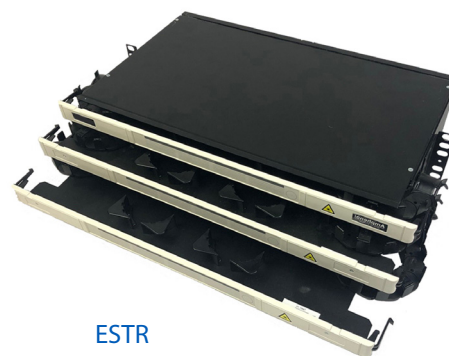** Example available Trunk Spool part numbers, additional configurable options available.

Near-end (LiNC with Spools)

Far-end (LiNC without Spools)

LiNC Modules
(Left/Right 24-Port LCU/APC)

ESTR

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