

# Fiber Optic Accessories

## JCxxxx

### Fiber Optic Service Cables

## FEATURES

- Enables connectivity of complex VHubs and nodes to nearby splice enclosures
- Wide selection of standard connector types (including SC/APC, LC/UPC, and MPO/APC) and lengths (up to 300 feet)
- Gel-free construction
- Wide operating temperature range (−40° to +85°C)



## PRODUCT OVERVIEW

ARRIS' service cables enable easy connectivity of complex Virtual Hubs (VHubs/UVHubs) and nodes to nearby splice enclosures. Designed for use with ARRIS's NC/NH/VH4000 series VHubs and NC/NH2000 series mini VHubs, as well as NC4000 and NC2000 series optical node platforms, these service cables are offered in a wide variety of configurations and lengths. They support up to 24 fiber connections with SC/APC, MPO/APC, and LC/UPC connector options. Internal to the platform housing, the 30 (± 3) inch individual fibers allow more than sufficient fiber lengths to easily make connections to the various modules and bulkhead adaptors.

MPO connectors are designed for use with complex VHub-based optical modules which feature high fiber count connectivity such as the OP4528 Light-Plex®, OR4148 RFoG Diplexer/Return Receiver, and OR4168 GEAPON Diplexer/Return Receiver. SC/APC and LC/UPC connectors are suitable for use with a variety of VHub- and node-based modules such as analog receivers, digital return transponders, EDFAs, optical switches, and more.

**SPECIFICATIONS**

Characteristics	Specification
<b>Environmental</b>	
Operating Temperature Range	-40° to +70°C (-40° to +158°F)
Storage Temperature Range	-40° to +70°C (-40° to +158°F)
Pressure hold-up (assembled to node)	12 psi
<b>Entry Connector</b>	
Material	Aluminum
Length	5.5 in (approximately, body and nut)
Thread	5/8-24 UNEF, Class 2A
Pull-out force, min	150 lbs (cable-to-connector)
<b>Cable</b>	
Fiber	SMF-28e and/or SMF-28e+
Industry standards	ICEA-640, Telcordia GR-20, listed with RDUP
<b>SC/APC Optical Connectors</b>	
Insertion loss, typ	0.5 dB
Return loss, min	65 dB
<b>MPO/APC Optical Connectors</b>	
Insertion loss, typ	0.35 dB
Return loss, min	55 dB
<b>LC/UPC Optical Connectors</b>	
Insertion loss, typ	0.15 dB
Return loss, min	55 dB

**RELATED PRODUCTS**

NC4000 Optical Node	NH2000 VHub
NC2000 Optical Node	EDFAs
NH4000 VHub/UVHub	Optical Switches

**ORDERING INFORMATION**

**Service Cables with 8 SC/APC Connectors**

For interface connections to switches, EDFAs, or other node modules, serving up to 8 nodes

Model Number	Length (feet)
JC1508-AS-50	50
JC1508-AS-100	100
JC1508-AS-200	200
JC1508-AS-300	300

**Service Cables with a single MPO Connector and 4 SC/APC Connectors**

For interface connections to switches, EDFAs, or other node modules, serving up to 8 nodes

Model Number	Length (feet)
JC1512-MP-AS4-050	50
JC1512-MP-AS4-100	100

**Service Cables with a single MPO Connector and 8 SC/APC Connectors**

MPO connector to OP4528 or OP4538 series Light-Plex module, SC/APC connectors to other node modules

Model Number	Length (feet)
JC1516-MP-AS8-100	100
JC1516-MP-AS8-300	300

**Service Cables with two MPO Connector and 8 SC/APC Connectors**

MPO connectors to OP4528 or OP4538 series Light-Plex module, SC/APC connectors to other node modules

Model Number	Length (feet)
JC1524-MP-AS8-50	50
JC1524-MP-AS8-100	100

**Service Cables with three MPO Connectors**

MPO connectors to OP4538 series Light-Plex Modules (serving up to 24 nodes, or 16 nodes with a spare connector)

Model Number	Length (feet)
JC1524-MP-050	50
JC1524-MP-100	100
JC1524-MP-300	300

**Service Cables with 6 or 12 LC/UPC Connectors**

LC/UPC connectors

Model Number	Length (feet)
JC1506-LC-050	50 (with 6 connectors)
JC1512-LC-050	50 (with 12 connectors)

**NOTE:**

The interior length (inside the VHub/UVHub/node) of the individual fibers from the housing connector to the xx/xxx connector is 30 ± 3 inches for all cable part numbers.

## Customer Care

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

**Note:** Specifications are subject to change without notice.

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