

Optical Node Series

Node Fiber Service Cables

FEATURES

- Connectorized outdoor service cables designed to simplify node installations
- Dense fiber options support migration to fiber deep networks by maximizing fiber usage
- Intuitive color coded fibers simplify connections and maintenance
- Provides excellent environmental protection including water blocking
- High mechanical integrity including impact resistance, compressive and tensile strength



PRODUCT OVERVIEW

ARRIS provides a series of non-armored, loose-tube buffer single-mode fiber service cables designed to simplify optical node installations. Each cable features a feed-through housing connector that provides a non-slip strain-relief connection, high pull/push force protection and environmental seal integrity. The connectorized ends within the node are available in six or eight fiber breakouts of jacketed fiber that is GR-20-CORE compliant. Breakouts are either color coded or labeled, as in the case of the high density version that utilizes four MPO connections, each with eight fibers for a total of 32. The unconnectorized end of the cable assembly presents the technician with the loose tubes and all strength members, dielectric and/or aramid fibers ready to prepare for fusion splicing to fiber trunks. ARRIS fiber service cables combine performance, quality and reliability to ensure dependable node operation.

SPECIFICATIONS

Ordering Information	453191-001-00 NODE-SERCAB- 6F/SCAPC	453191-003-00 NODE-SERCAB- 8F/SCAPC	453191-004-00 NODE-SERCAB- 6F/SCAPC/SCUPC	589425-001-00 MOTR-SERCAB-MPO- 4X8	581560-001-00 NODE-SERCAB- 16F/LC
Breakout Connectors (Feed-through end)					
Connector Type	SC/APC	SC/APC	SC/APC	MPO/APC	LC/UPC
Return Loss	-65 dB Max.	-65 dB Max.	-65 dB Max.	-55 dB Max.	-55 dB Max.
Insertion Loss ¹	0.3 dB Max.	0.3 dB Max.	0.3 dB Max.	0.75 dB Max.	0.3 dB Max.
Connectors (Splice end)					
Connector Type	N/A	N/A	SC/UPC	N/A	N/A
Insertion Loss ¹	N/A	N/A	0.3 dB Max.	N/A	N/A
Fiber					
Optical Wavelength	O, E, S, C and L Bands	O, E, S, C and L Bands	O, E, S, C and L Bands	O, E, S, C and L Bands	O, E, S, C and L Bands
Fiber Type (GR-20-CORE)	Corning SMF-28e or equivalent	Corning SMF-28e or equivalent	Corning SMF-28e or equivalent	Corning SMF-28e or equivalent	Corning SMF-28e or equivalent
Breakout Diameter	2 mm	2 mm	2 mm	2 mm	900 μ
Quantity of Breakout sub units	N/A	N/A	N/A	4	N/A
Total Number of Fibers	6	8	6	32	16
Physical					
Total Cable Length (m)	15	15	22	30	15
Breakout Lengths (m)	1	1	1	1	1
Outside Diameter (mm)	14	14	14	14	14
Weight/length (kg/km)	116	116	116	116	116
Bend Radius at Installation (cm)	25	25	25	25	25
Environmental					
Operational/Storage/Installation Temperature (°C) per FOTP-3	-40 to +80	-40 to +80	-40 to +80	-40 to +80	-40 to +80
Water Blocking per FOTP-82	1 meter head of water on un-aged sample for 24 hours shall result in no water leak through the end of cable				

Notes:

1. Initial (start of service life) values

RELATED PRODUCTS

CHP Transmitters	Optical Patch Cords
CHP Receivers	Optical Passives
Management Module	Installation Services

Note: Specifications are subject to change without notice.

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(rev 12-2014)

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Nodes-Fiber Service Cable