



**FR-N-1SM-01-100FS**

HYBRIFLEX® RRH Optical Fiber Cable, 1 Pair, Ruggedized Bend-Insensitive Single-Mode Fiber, DLC to Elongated DLC Clip, 100 ft

**PRODUCT DESCRIPTION**

RFS' HYBRIFLEX Remote Radio Head (RRH) hybrid feeder cabling solution combines any combination of optical fiber and/or DC power for RRHs in a single lightweight armored or unarmored cable, making it the world's most innovative solution for RRH deployments. Hybrid, Fiber Optic and DC riser trunk and jumper cables are available in a large variety of fiber counts, DC counts and cross sections. Both pre-connectorized and on-site options are available.



**FEATURES / BENEFITS**

- Ruggedized, bend-insensitive fiber design with outstanding bending characteristics
- Lightweight solution and compact design – Decreases tower loading
- Robust cabling – Eliminates need for expensive cable trays and ducts
- Installation of tight bundled fiber optic cable pair directly to the RRH – Reduces CAPEX and wind load by eliminating need for interconnection
- Outdoor, black jacket – Ensures long-lasting cable protection
- **100% Factory tested - Online test results available**

**TECHNICAL FEATURES**

**STRUCTURE**

Cable Type		HYBRIFLEX®
Fire Performance		Flame Retardant
Length	m (ft)	30.4 (100)

**MECHANICAL SPECIFICATIONS**

Outer Diameter Nominal	mm (in)	5.5 (0.217)
Cable Weight	kg/m (lb/ft)	0.033 (0.022)
Minimum Bending Radius, Single Bend	mm (in)	66 (2.6)
Minimum Bending Radius, Multiple Bends	mm (in)	83 (3.3)
Recommended / Maximum Clamp Spacing	m (ft)	1 / 1.2 (3.25 / 4)

**F/O CABLE SPECIFICATIONS**

Number of F/O Pairs		1
F/O Cable Type		G657-A2 Single Mode, Bend Tolerant
Core/Clad	µm	9/125
Secondary Protection Nominal	µm (in)	900 (0.035)
F/O Standards (Meets or Exceeds)		UL Listed Type OFNR (UL1666), RoHS Compliant
Optical Loss	dB/Km	0.5 @ 1310 nm 0.5 @ 1550 nm
FO Break-out Length (Top)	mm (in)	279 (11)
FO Break-out Length (Bottom)	mm (in)	228 (9)
Cable Sealing Method		Semi-rigid flame-retardant polyolefin, with hot melt adhesive
Fiber Termination End 1		DLC Connector
Fiber Termination End 2		DLC Connector with Elongated Clip



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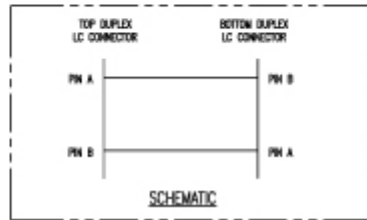
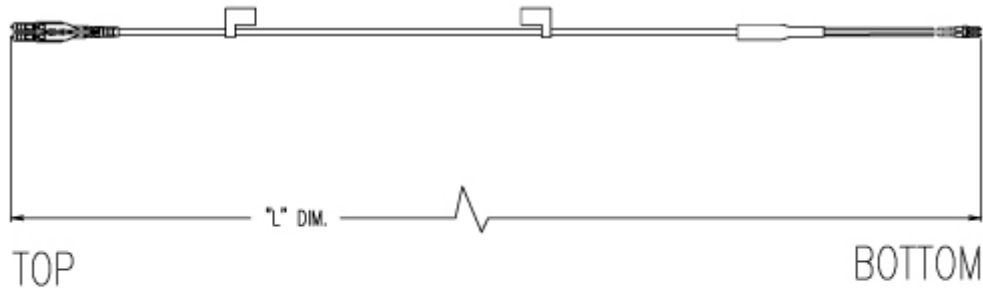
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**CABLE JACKET**

UV-Protection Individual and External Jacket		Yes
Jacket Material		Flame Retardant, Indoor/Outdoor, PVC, Black

**TESTING AND ENVIRONMENTAL**

Storage Temperature	°C (°F)	-40 to 70 (-40 to 158)
Operation Temperature	°C (°F)	-40 to 65 (-40 to 149)
Installation Temperature	°C (°F)	-20 to 65 (-4 to 149)
Jacket Specifications		UL 1666



**EXTERNAL DOCUMENT LINKS**

- Installation Guidelines: [Download](#)
- QuickShip 2.0 Program Information: [Download](#)
- On-line Factory Test Results: [View](#)

**NOTES**

Specifically designed for Samsung RRH.



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**ADDITIONAL ASSEMBLIES - 1 PAIR SM FIBER**

Length, ft	Model Number
10	FR-N-1SM-01-10FS
20	FR-N-1SM-01-20FS
30	FR-N-1SM-01-30FS
40	FR-N-1SM-01-40FS
50	FR-N-1SM-01-50FS
60	FR-N-1SM-01-60FS
79	FR-N-1SM-01-70FS
80	FR-N-1SM-01-80FS
90	FR-N-1SM-01-90FS
100	FR-N-1SM-01-100FS

**ADDITIONAL ASSEMBLIES - 2 PAIR SM FIBER**

Length, ft	Model Number
10	FR-N-2SM-01-10FS
20	FR-N-2SM-01-20FS
30	FR-N-2SM-01-30FS
40	FR-N-2SM-01-40FS
50	FR-N-2SM-01-50FS
60	FR-N-2SM-01-60FS
70	FR-N-2SM-01-70FS
80	FR-N-2SM-01-80FS
90	FR-N-2SM-01-90FS
100	FR-N-2SM-01-100FS

**ADDITIONAL ASSEMBLIES - 1 STRAND SM FIBER**

Length, ft	Model Number
10	FR-N-1SSM-01-10FS
15	FR-N-1SSM-01-15FS
20	FR-N-1SSM-01-20FS
30	FR-N-1SSM-01-30FS
40	FR-N-1SSM-01-40FS
50	FR-N-1SSM-01-50FS
60	FR-N-1SSM-01-60FS
70	FR-N-1SSM-01-70FS
80	FR-N-1SSM-01-80FS
90	FR-N-1SSM-01-90FS
100	FR-N-1SSM-01-100FS
120	FR-N-1SSM-01-120FS
130	FR-N-1SSM-01-130FS
150	FR-N-1SSM-01-150FS
160	FR-N-1SSM-01-160FS
170	FR-N-1SSM-01-170FS

**ADDITIONAL ASSEMBLIES - 2 STRAND SM FIBER**

Length, ft	Model Number
10	FR-N-2SSM-01-10FS
15	FR-N-2SSM-01-15FS
20	FR-N-2SSM-01-20FS
30	FR-N-2SSM-01-30FS
40	FR-N-2SSM-01-40FS
50	FR-N-2SSM-01-50FS
60	FR-N-2SSM-01-60FS
70	FR-N-2SSM-01-70FS
80	FR-N-2SSM-01-80FS
90	FR-N-2SSM-01-90FS
100	FR-N-2SSM-01-100FS