

FR-N-1SSM-01-20F1

HYBRIFLEX® RRH Optical Fiber Cable, 1 Single Strand, Ruggedized Bend-Insensitive Single-Mode Fiber, LC to LC/FullAXS Compatible Connectors, 20 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

m (ft)

- Outdoor, black jacket Ensures long-lasting cable protection
- \cdot 100% Factory tested Online test results available



HYBRIFLEX®

1 / 1.2 (3.25 / 4)

TECHNICAL FEATURES

STRUCTURE
Cable Type

Fire Performance		Flame Retardant
Length	m (ft)	6 (20)
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,	mm (in)	83 (3.3)

F/O CABLE SPECIFICATIONS

Recommended / Maximum Clamp

Multiple Bends

Spacing

	1
	G657-A2 Single Mode, Bend Tolerant
μm	9/125
μm (in)	900 (0.035)
	UL Listed Type OFNR (UL1666), RoHS Compliant
dB/Km	0.5 @ 1310 nm 0.5 @ 1550 nm
mm (in)	279 (11)
mm (in)	228 (9)
	Semi-rigid flame-retardant polyolefin, with hot melt adhesive
	dB/Km mm (in)



FR-N-1SSM-01-20F1

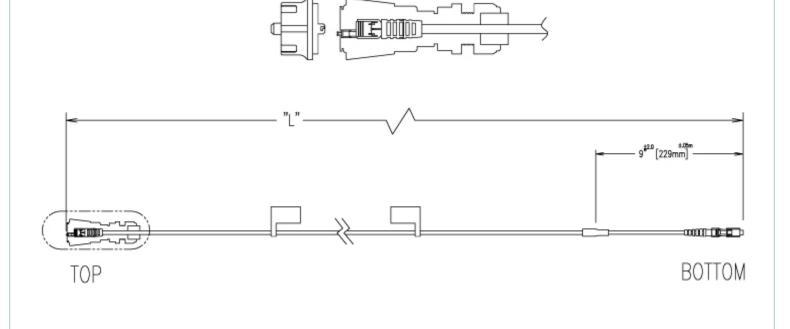
HYBRIFLEX® RRH Optical Fiber Cable, 1 Single Strand, Ruggedized Bend-Insensitive Single-Mode Fiber, LC to LC/FullAXS Compatible Connectors, 20 ft

Fiber Termination End 1		LC Connector
Fiber Termination End 2		LC Connector with FullAXS Compatibility
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

Installation Guidelines: Download

QuickShip 2.0 Program Information: <u>Download</u>

On-line Factory Test Results: View



www.rfstechnologies.com FR-N-1SSM-01-20F1 REV: C REV DATE: 29 Mar 2021



FR-N-1SSM-01-20F1

HYBRIFLEX® RRH Optical Fiber Cable, 1 Single Strand, Ruggedized Bend-Insensitive Single-Mode Fiber, LC to LC/FullAXS Compatible Connectors, 20 ft

ADDITIONAL ASSEMBLIES - 1 PAIR SM FIBER

Length, ft	Model Number
10	FR-N-1SM-01-10F1
20	FR-N-1SM-01-20F1
30	FR-N-1SM-01-30F1
40	FR-N-1SM-01-40F1
50	FR-N-1SM-01-50F1
60	FR-N-1SM-01-60F1
79	FR-N-1SM-01-70F1
80	FR-N-1SM-01-80F1
90	FR-N-1SM-01-90F1
100	FR-N-1SM-01-100F1

ADDITIONAL ASSEMBLIES - 2 PAIR SM FIBER

Length, ft	Model Number
10	FR-N-2SM-01-10F1
20	FR-N-2SM-01-20F1
30	FR-N-2SM-01-30F1
40	FR-N-2SM-01-40F1
50	FR-N-2SM-01-50F1
60	FR-N-2SM-01-60F1
70	FR-N-2SM-01-70F1
80	FR-N-2SM-01-80F1
90	FR-N-2SM-01-90F1
100	FR-N-2SM-01-100F1



FR-N-1SSM-01-20F1

HYBRIFLEX® RRH Optical Fiber Cable, 1 Single Strand, Ruggedized Bend-Insensitive Single-Mode Fiber, LC to LC/FullAXS Compatible Connectors, 20 ft

ADDITIONAL ASSEMBLIES - 3 PAIR SM FIBER

Length, ft	Model Number
10	FR-N-3SM-01-10F1
20	FR-N-3SM-01-20F1
30	FR-N-3SM-01-30F1
40	FR-N-3SM-01-40F1
50	FR-N-3SM-01-50F1
60	FR-N-3SM-01-60F1
79	FR-N-3SM-01-70F1
80	FR-N-3SM-01-80F1
90	FR-N-3SM-01-90F1
100	FR-N-3SM-01-100F1

ADDITIONAL ASSEMBLIES - 1 STRAND SM FIBER

Length, ft	Model Number
10	FR-N-1SSM-01-10F1
20	FR-N-1SSM-01-20F1
30	FR-N-1SSM-01-30F1
40	FR-N-1SSM-01-40F1
50	FR-N-1SSM-01-50F1
60	FR-N-1SSM-01-60F1
70	FR-N-1SSM-01-70F1
80	FR-N-1SSM-01-80F1
90	FR-N-1SSM-01-90F1
100	FR-N-1SSM-01-100F1

ADDITIONAL ASSEMBLIES - 3 STRAND SM FIBER

Length, ft	Model Number
10	FR-N-3SSM-01-10F1
20	FR-N-3SSM-01-20F1
30	FR-N-3SSM-01-30F1
40	FR-N-3SSM-01-40F1
50	FR-N-3SSM-01-50F1
60	FR-N-3SSM-01-60F1
70	FR-N-3SSM-01-70F1
80	FR-N-3SSM-01-80F1
90	FR-N-3SSM-01-90F1
100	FR-N-3SSM-01-100F1

ADDITIONAL ASSEMBLIES - 4 PAIR SM FIBER

Length, ft	Model Number
10	FR-N-4SM-01-10F1
20	FR-N-4SM-01-20F1
30	FR-N-4SM-01-30F1
40	FR-N-4SM-01-40F1
50	FR-N-4SM-01-50F1
60	FR-N-4SM-01-60F1
70	FR-N-4SM-01-70F1
80	FR-N-4SM-01-80F1
90	FR-N-4SM-01-90F1
100	FR-N-4SM-01-100F1

ADDITIONAL ASSEMBLIES - 2 STRAND SM FIBER

Length, ft	Model Number
10	FR-N-2SSM-01-10F1
20	FR-N-2SSM-01-20F1
30	FR-N-2SSM-01-30F1
40	FR-N-2SSM-01-40F1
50	FR-N-2SSM-01-50F1
60	FR-N-2SSM-01-60F1
70	FR-N-2SSM-01-70F1
80	FR-N-2SSM-01-80F1
90	FR-N-2SSM-01-90F1
100	FR-N-2SSM-01-100F1

ADDITIONAL ASSEMBLIES - 4 STRAND SM FIBER

Length, ft	Model Number
10	FR-N-4SSM-01-10F1
20	FR-N-4SSM-01-20F1
30	FR-N-4SSM-01-30F1
40	FR-N-4SSM-01-40F1
50	FR-N-4SSM-01-50F1
60	FR-N-4SSM-01-60F1
70	FR-N-4SSM-01-70F1
80	FR-N-4SSM-01-80F1
90	FR-N-4SSM-01-90F1
100	FR-N-4SSM-01-100F1



FR-N-1SSM-01-20F1

HYBRIFLEX® RRH Optical Fiber Cable, 1 Single Strand, Ruggedized Bend-Insensitive Single-Mode Fiber, LC to LC/FullAXS Compatible Connectors, 20 ft

PRE-PACKED HYBRIFLEX KITS FOR EASY INTEGRATION INTO RAYCAP JUNCTION BOXES

RFS now offers Kitting options for most hybrid risers and jumpers that include both the cable assembly and the Raycap inserts. For reference, kits have a "K" as the third digit in the model number. HB158 does not require an additional gland/insert for proper installation and sealing into the Distribution Boxes.

Kit Model Prefix	Assembly Prefix	Assembly Qty	Raycap Insert Kit	Insert Kit Contents	Raycap Insert Kit Qty
HBK114	HB114	1	RFS-TRUNK-KIT	(2) 190 0620, Insert, M75, 1H, 40mm	1
HBK058	HBF058		RFS-JUMP-KIT	(1) 190 0621, Insert, M75, 3H, 22mm, Split w/ plugs	
HBK012	HBF012		RFS-JUMP-KIT-2	(1) 190 0903, Insert, M75, 2H, 15mm, Split w/ plugs	
FRK-N	FR-N		RFS-FIBER-KIT	(1) 190 0657, Insert, M75, 6H, 6.1mm, Split w/ plugs	