

HYBRIFLEX® RRH Optical Fiber Cable, 4 Single Strand, Ruggedized Bend-Insensitive Single-Mode Fiber, LC to LC/FullAXS Compatible Connectors, 80 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

STRUCTURE							
Cable Type		HYBRIFLEX®					
Fire Performance		Flame Retardant					
Length	m (ft)	24.4 (80)					
MECHANICAL SPECIFICATIONS							
Outer Diameter Nominal	<b>Nominal</b> 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 Strands		4					
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					

FR-N-4SSM-01-80F1

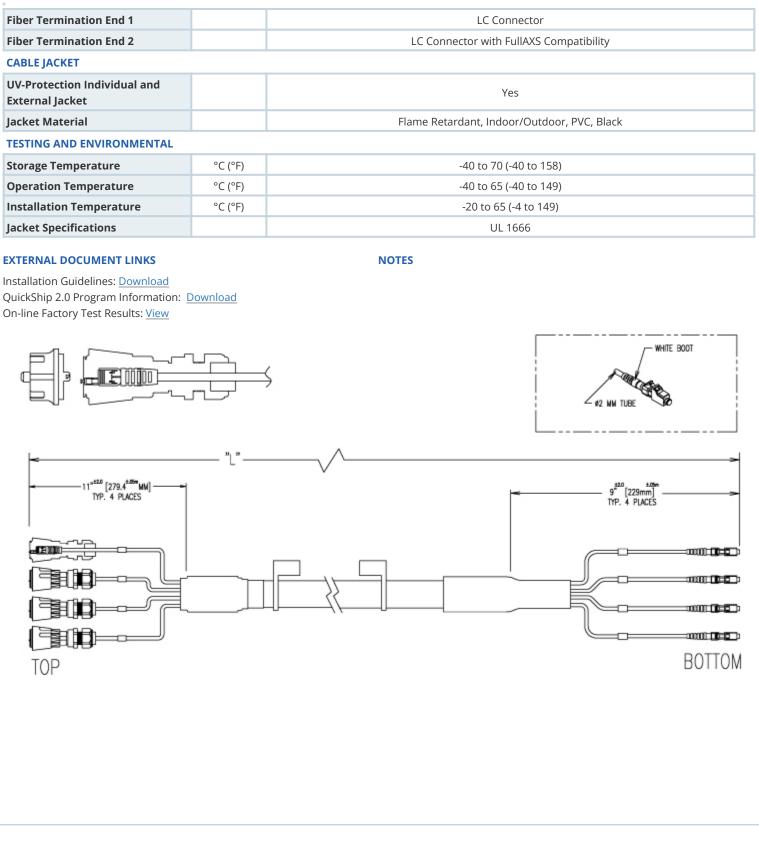
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ADDITIONAL ASSEMBLIES - 1 PAIR SM FIBER		
Length, ft	Model Number	
10	FR-N-1SM-01-10F1	
20	FR-N-1SM-01-20F1	
30	FR-N-1SM-01-30F1	
40	FR-N-1SM-01-40F1	
50	FR-N-1SM-01-50F1	
60	FR-N-1SM-01-60F1	
79	FR-N-1SM-01-70F1	
80	FR-N-1SM-01-80F1	
90	FR-N-1SM-01-90F1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



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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 - 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



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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 - 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

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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 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-4SSM-01-80F1

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

RFS Technologies 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 Technologies- TRUNK-KIT	(2) 190 0620, Insert, M75, 1H, 40mm	
HBK058	HBF058		RFS Technologies- JUMP-KIT	(1) 190 0621, Insert, M75, 3H, 22mm, Split w/ plugs	1
HBK012	HBF012		RFS Technologies- JUMP-KIT-2	(1) 190 0903, Insert, M75, 2H, 15mm, Split w/ plugs	
FRK-N	FR-N		RFS Technologies- FIBER-KIT	(1) 190 0657, Insert, M75, 6H, 6.1mm, Split w/ plugs	