

FR-N-3SM-01-6F

HYBRIFLEX® RRH Optical Fiber Cable, 3 Pair, Ruggedized Bend-Insensitive Single-Mode Fiber, DLC Connectors, 6 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



HYBRIFLEX®

Flame Retardant

TECHNICAL FEATURES

STRUCTURE
Cable Type

Fire Performance

		Training Treatail desire				
Length	m (ft)	1.8 (6)				
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		3		
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		



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Fiber Termination End 1		DLC Connector			
Fiber Termination End 2		DLC Connector			
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			

NOTES

EXTERNAL DOCUMENT LINKS

Installation Guidelines: Download

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

On-line Factory Test Results: View



ADDITIONAL ASSEMBLIES - 1 PAIR SM FIBER

Length, ft	Model Number
6	FR-N-1SM-01-6F
10	FR-N-1SM-01-10F
15	FR-N-1SM-01-15F
20	FR-N-1SM-01-20F
30	FR-N-1SM-01-30F
40	FR-N-1SM-01-40F
50	FR-N-1SM-01-50F
60	FR-N-1SM-01-60F
79	FR-N-1SM-01-70F
80	FR-N-1SM-01-80F
90	FR-N-1SM-01-90F
100	FR-N-1SM-01-100F

ADDITIONAL ASSEMBLIES - 2 PAIR SM FIBER

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



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ADDITIONAL ASSEMBLIES - 3 PAIR SM FIBER

Length, ft	Model Number
3	FR-N-3SM-01-3F
4	FR-N-3SM-01-4F
6	FR-N-3SM-01-6F
8	FR-N-3SM-01-8F
10	FR-N-3SM-01-10F
15	FR-N-3SM-01-15F
20	FR-N-3SM-01-20F
30	FR-N-3SM-01-30F
50	FR-N-3SM-01-50F

ADDITIONAL ASSEMBLIES - 12 PAIR SM FIBER

Length, ft	Model Number
3	FR-N-12SM-01-3F
4	FR-N-12SM-01-4F
6	FR-N-12SM-01-6F
8	FR-N-12SM-01-8F
10	FR-N-12SM-01-10F
15	FR-N-12SM-01-15F
20	FR-N-12SM-01-20F
30	FR-N-12SM-01-30F

ADDITIONAL ASSEMBLIES - 1 STRAND SM FIBER

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

ADDITIONAL ASSEMBLIES - 6 PAIR SM FIBER

Length, ft	Model Number
3	FR-N-6SM-01-3F
4	FR-N-6SM-01-4F
6	FR-N-6SM-01-6F
8	FR-N-6SM-01-8F
10	FR-N-6SM-01-10F
15	FR-N-6SM-01-15F
20	FR-N-6SM-01-20F
30	FR-N-6SM-01-30F
40	FR-N-6SM-01-40F

ADDITIONAL ASSEMBLIES - 2 STRAND SM FIBER

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



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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	
HBK058	HBF058		RFS-JUMP-KIT	(1) 190 0621, Insert, M75, 3H, 22mm, Split w/ plugs	4
HBK012	HBF012		RFS-JUMP-KIT-2	(1) 190 0903, Insert, M75, 2H, 15mm, Split w/ plugs	ı
FRK-N	FR-N		RFS-FIBER-KIT	(1) 190 0657, Insert, M75, 6H, 6.1mm, Split w/ plugs	