

PRODUCT DATASHEET FR-N-1SM-01-60FS

HYBRIFLEX® RRH Optical Fiber Cable, 1 Pair, Ruggedized Bend-Insensitive Single-Mode Fiber, DLC to Elongated DLC Clip, 60 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



STRUCTURE

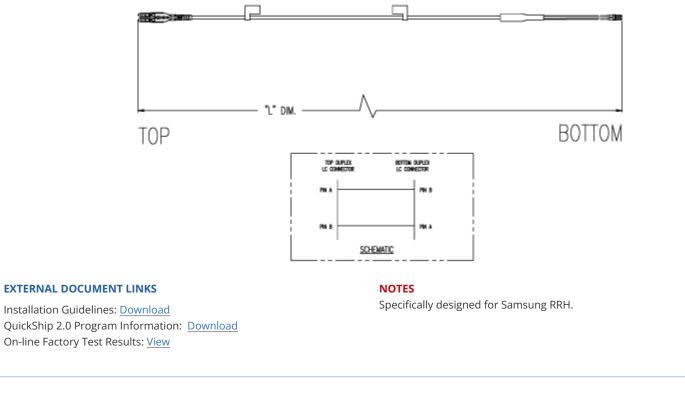
Cable Type		HYBRIFLEX®		
Fire Performance		Flame Retardant		
Length	m (ft)	18.3 (60)		
MECHANICAL SPECIFICATIONS	MECHANICAL SPECIFICATIONS			
Outer Diameter Nominal	mm (in)	5.5 (0.217)		
Cable Weight	kg/m (lb/ft)	0.033 (0.022)		
Minimum Bending Radius, Single Bend	mm (in)	66 (2.6)		
Minimum Bending Radius, 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		



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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	
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	



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REV DATE : 22 Feb 2021

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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

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HYBRIFLEX® RRH Optical Fiber Cable, 1 Pair, Ruggedized Bend-Insensitive Single-Mode Fiber, DLC to Elongated DLC Clip, 60 ft

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

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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	