

HYBRIFLEX® RRH Optical Fiber Cable, 12 Pair, Ruggedized Bend-Insensitive Single-Mode Fiber, DLC Connectors

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

SIRUCIURE				
Cable Type		HYBRIFLEX®		
Fire Performance		Flame Retardant		
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		12		
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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		./10' min.	Distribution Fiber Inc	bor Fan-Out	17* typ. / 10* min	
Installatior QuickShip	DOCUMENT LINKS Guidelines: <u>Download</u> 2.0 Program Information: <u>[</u> ctory Test Results: <u>View</u>	Download	N	DTES		
Jacket Sp	ecifications				UL 1666	
Installati	on Temperature	°C (°F)		-20	0 to 65 (-4 to 149)	
Operatio	n Temperature	°C (°F)		-40	to 65 (-40 to 149)	
Storage T	emperature	°C (°F)		-40	to 70 (-40 to 158)	
	AND ENVIRONMENTAL					
Jacket Ma				Flame Retardar	nt, Indoor/Outdoor, PVC,	Black
UV-Prote External J	ction Individual and				Yes	
CABLE JAG	CKET					
Fiber Terr	mination End 2				DLC Connector	
	mination End 1				DLC Connector	



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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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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 SI	VI FIBER
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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	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	

