

HYBRIFLEX® RRH Hybrid Jumper, 5/8", 1 pair 6AWG, 1 Single Strand, Single-Mode Fiber with LC to Elongated LC Clip, 15 ft

PRODUCT DESCRIPTION

RFS Technologies' HYBRIFLEX Remote Radio Head (RRH) hybrid feeder cabling solution combines optical fiber and DC power for RRHs in a single lightweight aluminum corrugated cable, making it the world's most innovative solution for RRH deployments. It was developed to reduce installation complexity and costs at Cellular sites. HYBRIFLEX allows mobile operators deploying an RRH architecture to standardize the RRH installation process. HYBRIFLEX combines optical fiber (multi-mode or single-mode) and power in a single corrugated cable. It may eliminate the need for junction boxes and can connect multiple RRHs with a single feeder. Standard RFS Technologies CELLFLEX® accessories can be used with HYBRIFLEX cable.

FEATURES / BENEFITS

- · Aluminum corrugated armor with outstanding bending characteristics Minimizes installation time and enables mechanical protection and shielding
- Outer conductor grounding Saves on installation costs
- 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 pairs directly to the RRH Reduces CAPEX and wind load by eliminating need for interconnection
- · Optical fiber and power cables housed in single corrugated cable Saves CAPEX by standardizing RRH cable installation and reducing installation requirements
- UL-Listed, flame-retardant jacket, UV protected assembles Allows both indoor and outdoor applications
- 100% Factory tested Online test results available

TECHNICAL FEATURES

STRUCTURE				
Cable Type		HYBRIFLEX®		
Fire Performance		Flame Retardant		
Size		5/8		
Length	m (ft)	4.5 (15)		
MECHANICAL SPECIFICATIONS				
Outer Diameter Nominal	mm (in)	21.4 (0.84)		
Cable Weight	kg/m (lb/ft)	0.6 (0.4)		
Minimum Bending Radius, Single Bend	mm (in)	102 (4)		
Minimum Bending Radius, Multiple Bends	mm (in)	254 (10)		
Recommended / Maximum Clamp Spacing	m (ft)	1 / 1.2 (3.25 / 4)		
CABLE JACKET				
UV-Protection Individual and External Jacket		Yes		

HBF058-13U1SS-15FS

REV : A

REV DATE : 18 Aug 2021

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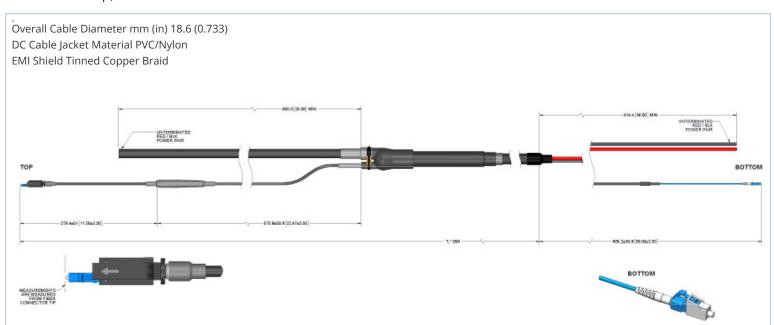


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IBF058-13U1SS-15FS	1	REV : A	REV DATE : 18 Aug 2021	www.rfstechnologies.con	
EXTERNAL DOCUMENT LINKS QuickShip 2.0 Program Information: <u>C</u> On-line Factory Test Results: <u>View</u>	Download		NOTES Top Breakout - DC Power Cable Sp Specifications per 1 pair: Maximum DC-Resistance Power Cab Cross Section of Power Cable mm2	ole Ω/km (Ω/kft) 1.4 (0.42)	
Jacket Specifications			UL1569 Type MC, UL Li	isted	
Installation Temperature	°C (°F)		-20 to 65 (-4 to 149))	
Operation Temperature	°C (°F)		-40 to 65 (-40 to 149)		
Storage Temperature	°C (°F)	-40 to 70 (-40 to 158)		8)	
TESTING AND ENVIRONMENTAL					
Fiber Termination End 2			LC Connector with Elonga	ted Clip	
Fiber Termination End 1			LC Connector		
Cable Sealing Method		5	emi-rigid flame-retardant polyolefin, w	vith hot melt adhesive	
FO Break-out Length (Bottom)	mm (in)		965 (38)		
FO Break-out Length (Top)	mm (in)		570 (22)		
Optical Loss	dB/Km		0.5 @ 1310 nm 0.5 @ 1550 nm		
F/O Standards (Meets or Exceeds)	ndards (Meets or Exceeds)		UL Listed Type OFNR (UL1666), RoHS Compliant		
Single Bending Radius mm (in)			55 (2.2)		
Core/Clad	μm		9/125		
F/O Cable Type			G657-A2 Single Mode, Benc	Tolerant	
Number of F/O Strands			1		
F/O CABLE SPECIFICATIONS					
DC cable sealing method		S	emi-rigid, flame-retardant polyolefin, w	vith hot melt adhesive	
Break-out length (Bottom)			914 (36)		
Break-out length (Top)	mm (in)		650 (26)		
DC Standards (Meets or Exceeds)		For u	ise in Type MC per UL 1569, PVC Nylon	, RoHS/REACH Compliant	
DC Cable Diameter	mm (in)		6.45 (0.25)		
DC Cable Single Bending Radius	mm (in)	83 (3.3)			
DC Wire Jacket Material	、 - <i>/</i>	PVC/Nylon			
Cross Section of Power Cable	mm ² (AWG)		13.3 (6)		
Maximum DC-Resistance Power Ω/km (Ω/kft)		1.4 (0.42)			
Number of DC Pairs			1		
DC POWER CABLE SPECIFICATIONS					
Diameter Corrugated Armor			18.5 (0.73)		
Armor Type Maximum DC-resistance of Armor			1.97 (0.6)		
			Corrugated Aluminu	Im	



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ADDITIONAL ASSEMBLIES - 1 STRAND SM FIBER

Length, ft	Model Number
15	HBF058-13U1SS-15FS
30	HBF058-13U1SS-30FS
40	HBF058-13U1SS-40FS

ADDITIONAL ASSEMBLIES - 2 STRAND SM FIBER

Length, ft	Model Number
15	HBF058-13U1SS2-15FS
30	HBF058-13U1SS2-30FS
40	HBF058-13U1SS2-40FS

ADDITIONAL ASSEMBLIES - 3 STRAND SM FIBER

Length, ft	Model Number
15	HBF058-13U1SS3-15FS
30	HBF058-13U1SS3-30FS
40	HBF058-13U1SS3-40FS
60	HBF058-13U1SS3-60FS

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.

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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	
НВК058	HBF058		RFS Technologies- JUMP-KIT	(1) 190 0621, Insert, M75, 3H, 22mm, Split w/ plugs	4
HBK012	HBF012		RFS Technologies- JUMP-KIT-2	(1) 190 0903, Insert, M75, 2H, 15mm, Split w/ plugs	1
FRK-N	FR-N		RFS Technologies- FIBER-KIT	(1) 190 0657, Insert, M75, 6H, 6.1mm, Split w/ plugs	