

HYBRIFLEX® RRH Hybrid Jumper, 5/8", 1 pair 6AWG, 1 Single Strand, Single-Mode Fiber with LC to Elongated LC Clip, 30 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)	9 (30)				
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-30FS

REV : A

REV DATE : 18 Aug 2021

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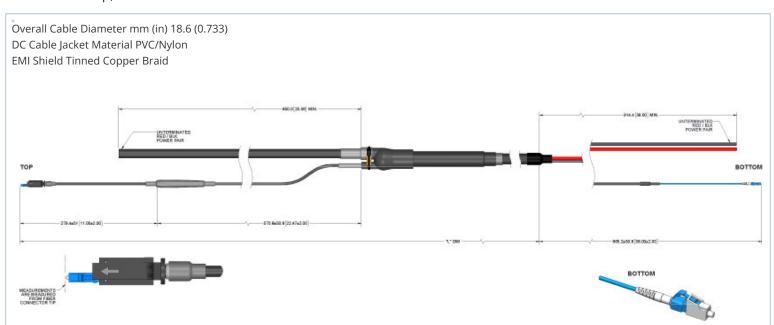


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EXTERNAL DOCUMENT LINKS QuickShip 2.0 Program Information: [Dn-line Factory Test Results: <u>View</u>	<u>Download</u>	NOTES Top Breakout - DC Power Cable Specifications Specifications per 1 pair: Maximum DC-Resistance Power Cable Ω/km (Ω/kft) 1.4 (0.42) Cross Section of Power Cable mm2 (AWG) 13.3 (6)
Jacket Specifications		UL1569 Type MC, UL Listed
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)
TESTING AND ENVIRONMENTAL		
Fiber Termination End 2		LC Connector with Elongated Clip
Fiber Termination End 1		LC Connector
Cable Sealing Method		Semi-rigid flame-retardant polyolefin, with hot melt adhesive
FO Break-out Length (Bottom)	mm (in)	965 (38)
FO Break-out Length (Top)	mm (in)	0.5 @ 1550 nm 570 (22)
Optical Loss	dB/Km	0.5 @ 1310 nm
F/O Standards (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, Bend Tolerant
Number of F/O Strands		1
F/O CABLE SPECIFICATIONS		
DC cable sealing method		Semi-rigid, flame-retardant polyolefin, with hot melt adhesive
Break-out length (Bottom)	mm (in)	914 (36)
Break-out length (Top)	mm (in)	650 (26)
DC Standards (Meets or Exceeds)		For use 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		PVC/Nylon
Cross Section of Power Cable	mm² (AWG)	13.3 (6)
Maximum DC-Resistance Power Cable	Ω/km (Ω/kft)	1.4 (0.42)
Number of DC Pairs		1
DC POWER CABLE SPECIFICATIONS		
Diameter Corrugated Armor		18.5 (0.73)
Maximum DC-resistance of Armor		1.97 (0.6)
Armor Type		Corrugated Aluminum



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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	
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	