

HYBRIFLEX® RRH Hybrid Jumper, 5/8", 1 pair 8AWG, 2 pair Single-Mode Fiber with DLC Connectors, 40 ft

PRODUCT DESCRIPTION

RFS Technologies, inc. 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 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

	Yes Corrugated Aluminum 1.97 (0.6) 18.5 (0.73)	
	Corrugated Aluminum	
	Yes	
	Yes	
m (ft)	1 / 1.2 (3.25 / 4)	
mm (in)	254 (10)	
mm (in)	102 (4)	
kg/m (lb/ft)	0.6 (0.4)	
mm (in)	21.4 (0.84)	
m (ft)	12 (40)	
	5/8	
	Flame Retardant	
	HYBRIFLEX®	
	mm (in) kg/m (lb/ft) mm (in) mm (in)	Image: Note of the second s







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DC POWER CABLE SPECIFICATIONS		
Number of DC Pairs		1
Maximum DC-Resistance Power Cable	Ω/km (Ω/kft)	2.2 (0.66)
Cross Section of Power Cable	mm² (AWG)	8.4 (8)
DC Wire Jacket Material		PVC/Nylon
DC Cable Single Bending Radius	mm (in)	83 (3.3)
DC Cable Diameter	mm (in)	5.5 (0.22)
DC Standards (Meets or Exceeds)		For use in Type MC per UL 1569, PVC Nylon, RoHS/REACH Compliant
Break-out length (Top)	mm (in)	559 (22)
Break-out length (Bottom)	mm (in)	965 (38)
DC cable sealing method		Semi-rigid, flame-retardant polyolefin, with hot melt adhesive
F/O CABLE SPECIFICATIONS		
Number of F/O Pairs		2
F/O Cable Type		G657-A2 Single Mode, Bend Tolerant
Core/Clad	μm	9/125
Single Bending Radius	mm (in)	83 (3.3)
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)	583 (23)
FO Break-out Length (Bottom)	mm (in)	965 (38)
Cable Sealing Method		Semi-rigid flame-retardant polyolefin, with hot melt adhesive
Fiber Termination End 1		DLC Connector
Fiber Termination End 2		DLC Connector
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		UL1569 Type MC, UL Listed

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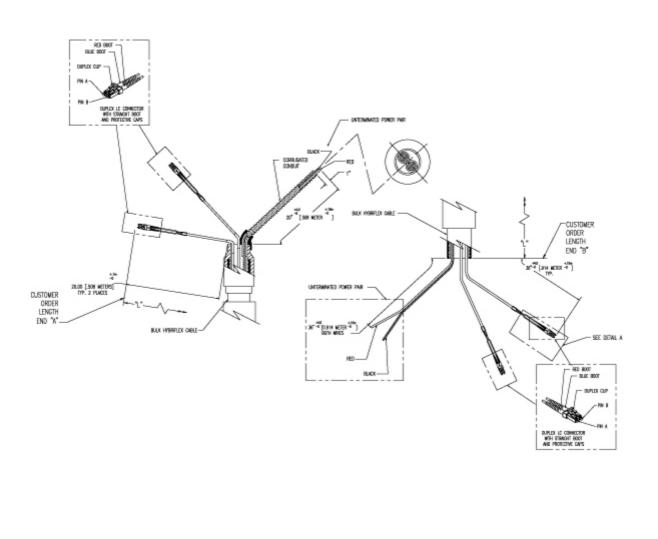


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NOTES

EXTERNAL DOCUMENT LINKS

Installation Guidelines: Download QuickShip 2.0 Program Information: Download On-line Factory Test Results: View



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ADDITIONAL ASSEMBLIES - 1 PAIR SM FIBER			
Length, ft	Model Number		
3	HBF058-08U1S1-3F		
5	HBF058-08U1S1-5F		
6	HBF058-08U1S1-6F		
8	HBF058-08U1S1-8F		
9	HBF058-08U1S1-9F		
10	HBF058-08U1S1-10F		
12	HBF058-08U1S1-12F		
14	HBF058-08U1S1-14F		
15	HBF058-08U1S1-15F		
20	HBF058-08U1S1-20F		
25	HBF058-08U1S1-25F		
30	HBF058-08U1S1-30F		
40	HBF058-08U1S1-40F		
50	HBF058-08U1S1-50F		
60	HBF058-08U1S1-60F		
70	HBF058-08U1S1-70F		
80	HBF058-08U1S1-80F		
90	HBF058-08U1S1-90F		
100	HBF058-08U1S1-100F		
125	HBF058-08U1S1-125F		
150	HBF058-08U1S1-150F		
175	HBF058-08U1S1-175F		
200	HBF058-08U1S1-200F		
300	HBF058-08U1S1-300F		
400	HBF058-08U1S1-400F		

Length, ft Model Number 3 HBF058-08U1S2-3F1 5 HBF058-08U1S2-5F1 6 HBF058-08U1S2-6F1 8 HBF058-08U1S2-8F1 9 HBF058-08U1S2-9F1 10 HBF058-08U1S2-10F1 12 HBF058-08U1S2-12F1 15 HBF058-08U1S2-15F1 20 HBF058-08U1S2-20F1 25 HBF058-08U1S2-25F1 30 HBF058-08U1S2-30F1 40 HBF058-08U1S2-40F1 50 HBF058-08U1S2-50F1 60 HBF058-08U1S2-60F1 70 HBF058-08U1S2-70F1 80 HBF058-08U1S2-80F1 90 HBF058-08U1S2-90F1 100 HBF058-08U1S2-100F1 130 HBF058-08U1S2-130F1 140 HBF058-08U1S2-140F1 160 HBF058-08U1S2-160F1 170 HBF058-08U1S2-170F1 200 HBF058-08U1S2-200F1 230 HBF058-08U1S2-230F1 250 HBF058-08U1S2-250F1 300 HBF058-08U1S2-300F1 HBF058-08U1S2-400F1 400

ADDITIONAL ASSEMBLIES - 2 PAIR SM FIBER

ADDITIONAL ASSEMBLIES - 1 STRAND SM FIBER

Length, ft	Model Number		
8	HBF058-08U1SS-08F1		
12	HBF058-08U1SS-12F1		
15	HBF058-08U1SS-15F1		
20	HBF058-08U1SS-20F1		
30	HBF058-08U1SS-30F1		

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AD	ITIONAL	ASSEMBLIES -	2 STRAND	SM FIBER

Length, ft	Model Number		
10	HBF058-08U1SS2-10F1		
20	HBF058-08U1SS2-20F1		
30	HBF058-08U1SS2-30F1		
40	HBF058-08U1SS2-40F1		
50	HBF058-08U1SS2-50F1		
60	HBF058-08U1SS2-60F1		
70	HBF058-08U1SS2-70F1		
80	HBF058-08U1SS2-80F1		
90	HBF058-08U1SS2-90F1		
100	HBF058-08U1SS2-100F1		

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

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