

**HBF058-08U1SS-30F**

HYBRIFLEX® RRH Hybrid Jumper, 5/8", 1 pair 8AWG, 1 Single Strand, Single-Mode Fiber with LC to LC/FullAXS Compatible Connector, 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 assemblies - 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
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ARMOR SPECIFICATIONS

Armor Type		Corrugated Aluminum
Maximum DC-resistance of Armor		1.97 (0.6)
Diameter Corrugated Armor		18.5 (0.73)

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	mm^2 (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 Strands		1
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		LC Connector
Fiber Termination End 2		LC Connector with FullAXS Compatibility

TESTING AND ENVIRONMENTAL

Storage Temperature	$^{\circ}\text{C}$ ($^{\circ}\text{F}$)	-40 to 70 (-40 to 158)
Operation Temperature	$^{\circ}\text{C}$ ($^{\circ}\text{F}$)	-40 to 65 (-40 to 149)
Installation Temperature	$^{\circ}\text{C}$ ($^{\circ}\text{F}$)	-20 to 65 (-4 to 149)
Jacket Specifications		UL1569 Type MC, UL Listed

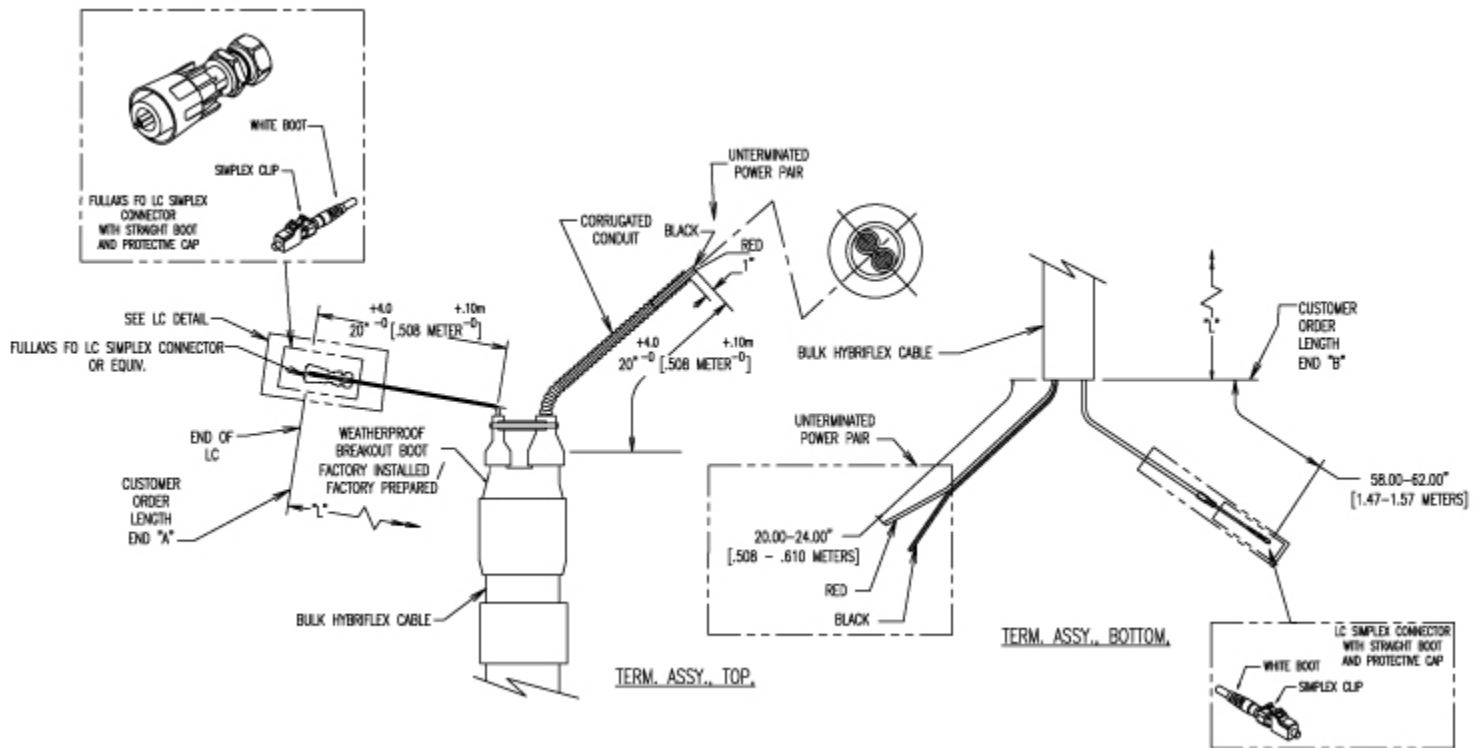
EXTERNAL DOCUMENT LINKS

QuickShip 2.0 Program Information: [Download](#)
On-line Factory Test Results: [View](#)

NOTES

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ADDITIONAL ASSEMBLIES - 1 PAIR SM FIBER

Length, ft	Model Number
10	HBF058-08U1S1-10F1
15	HBF058-08U1S1-15F1
20	HBF058-08U1S1-20F1
30	HBF058-08U1S1-30F1
40	HBF058-08U1S1-40F1
50	HBF058-08U1S1-50F1
60	HBF058-08U1S1-60F1
70	HBF058-08U1S1-70F1
80	HBF058-08U1S1-80F1
90	HBF058-08U1S1-90F1
100	HBF058-08U1S1-100F1

ADDITIONAL ASSEMBLIES - 2 PAIR SM FIBER

Length, ft	Model Number
8	HBF058-08U1S2-8F
10	HBF058-08U1S2-10F
12	HBF058-08U1S2-12F
15	HBF058-08U1S2-15F
20	HBF058-08U1S2-20F
25	HBF058-08U1S2-25F
30	HBF058-08U1S2-30F
40	HBF058-08U1S2-40F
50	HBF058-08U1S2-50F
60	HBF058-08U1S2-60F
70	HBF058-08U1S2-70F
80	HBF058-08U1S2-80F
90	HBF058-08U1S2-90F
100	HBF058-08U1S2-100F

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ADDITIONAL ASSEMBLIES - 3 PAIR SM FIBER

Length, ft	Model Number
10	HBF058-08U1S3-10F
20	HBF058-08U1S3-20F
30	HBF058-08U1S3-30F
40	HBF058-08U1S3-40F
50	HBF058-08U1S3-50F
60	HBF058-08U1S3-60F
79	HBF058-08U1S3-70F
80	HBF058-08U1S3-80F
90	HBF058-08U1S3-90F
100	HBF058-08U1S3-100F

ADDITIONAL ASSEMBLIES - 4 PAIR SM FIBER

Length, ft	Model Number
10	HBF058-08U1S4-10F
20	HBF058-08U1S4-20F
30	HBF058-08U1S4-30F
40	HBF058-08U1S4-40F
50	HBF058-08U1S4-50F
60	HBF058-08U1S4-60F
79	HBF058-08U1S4-70F
80	HBF058-08U1S4-80F
90	HBF058-08U1S4-90F
100	HBF058-08U1S4-100F

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ADDITIONAL ASSEMBLIES - 1 STRAND SM FIBER

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

ADDITIONAL ASSEMBLIES - 2 STRAND SM FIBER

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

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ADDITIONAL ASSEMBLIES - 3 STRAND SM FIBER

Length, ft	Model Number
10	HBF058-08U1SS3-10F
20	HBF058-08U1SS3-20F
30	HBF058-08U1SS3-30F
40	HBF058-08U1SS3-40F
50	HBF058-08U1SS3-50F
60	HBF058-08U1SS3-60F
70	HBF058-08U1SS3-70F
80	HBF058-08U1SS3-80F
90	HBF058-08U1SS3-90F
100	HBF058-08U1SS3-100F

ADDITIONAL ASSEMBLIES - 4 STRAND SM FIBER

Length, ft	Model Number
10	HBF058-08U1SS4-10F
20	HBF058-08U1SS4-20F
30	HBF058-08U1SS4-30F
40	HBF058-08U1SS4-40F
50	HBF058-08U1SS4-50F
60	HBF058-08U1SS4-60F
70	HBF058-08U1SS4-70F
80	HBF058-08U1SS4-80F
90	HBF058-08U1SS4-90F
100	HBF058-08U1SS4-100F

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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	1
HBK058	HBF058		RFS Technologies-JUMP-KIT	(1) 190 0621, Insert, M75, 3H, 22mm, Split w/ plugs	
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	