

PRODUCT DATASHEET HBF058-13U1SS3-15FS

HYBRIFLEX® RRH Hybrid Jumper, 5/8", 1 pair 6AWG, 3 Single Strand, Single-Mode Fiber with LC to Elongated LC Clip, 15 ft

PRODUCT DESCRIPTION

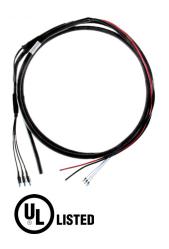
RFS' HYBRIFLEX Remote Radio Head (RRH) hybrid feeder cabling solution combines optical fiber and DC power for RRHs in a single lightweight aluminum corrugated cable, making it the world's most innovative solution for RRH deployments. It was developed to reduce installation complexity and costs at Cellular 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

	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)	4.5 (15)
	5/8
	Flame Retardant
	HYBRIFLEX®
	mm (in) kg/m (lb/ft) mm (in) mm (in)





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lumber of DC Pairs		1
laximum DC-Resistance Power able	Ω/km (Ω/kft)	1.4 (0.42)
cross Section of Power Cable	mm² (AWG)	13.3 (6)
C Wire Jacket Material		PVC/Nylon
OC Cable Single Bending Radius	mm (in)	83 (3.3)
OC Cable Diameter	mm (in)	6.45 (0.25)
C Standards (Meets or Exceeds)		For use in Type MC per UL 1569, PVC Nylon, RoHS/REACH Compliant
reak-out length (Top)	mm (in)	650 (26)
reak-out length (Bottom)	mm (in)	914 (36)
C cable sealing method		Semi-rigid, flame-retardant polyolefin, with hot melt adhesive
O CABLE SPECIFICATIONS		
lumber of F/O Strands		3
/O Cable Type		G657-A2 Single Mode, Bend Tolerant
ore/Clad	μm	9/125
ingle Bending Radius	mm (in)	55 (2.2)
O Standards (Meets or Exceeds)		UL Listed Type OFNR (UL1666), RoHS Compliant
ptical Loss	dB/Km	0.5 @ 1310 nm 0.5 @ 1550 nm
O Break-out Length (Top)	mm (in)	570 (22)
O Break-out Length (Bottom)	mm (in)	965 (38)
able Sealing Method		Semi-rigid flame-retardant polyolefin, with hot melt adhesive
iber Termination End 1		LC Connector
iber Termination End 2		LC Connector with Elongated Clip
ESTING AND ENVIRONMENTAL		
torage Temperature	°C (°F)	-40 to 70 (-40 to 158)
peration Temperature	°C (°F)	-40 to 65 (-40 to 149)
nstallation Temperature	°C (°F)	-20 to 65 (-4 to 149)
acket Specifications		UL1569 Type MC, UL Listed

EXTERNAL DOCUMENT LINKS

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

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) Overall Cable Diameter mm (in) 18.6 (0.733) DC Cable Jacket Material PVC/Nylon EMI Shield Tinned Copper Braid

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REV : A

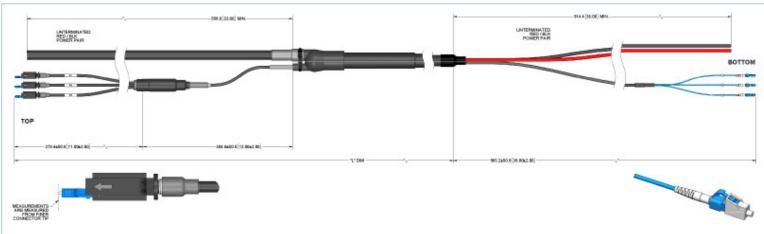
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ADDITIONAL ASSEMBLIES - 1 STRAND SM FIBER

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

ADDITIONAL ASSEMBLIES - 3 STRAND SM FIBER

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

ADDITIONAL ASSEMBLIES - 2 STRAND SM FIBER

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

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	I
FRK-N	FR-N		RFS-FIBER-KIT	(1) 190 0657, Insert, M75, 6H, 6.1mm, Split w/ plugs	

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