

PRODUCT DATASHEET HBF058-13U1SS2-40F

HYBRIFLEX® RRH Hybrid Jumper, 5/8", 1 pair 6AWG, 2 Single Strand, Single-Mode Fiber with LC to LC/FullAXS Compatible Connectors, 40 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

STRUCTURE		
Cable Type		HYBRIFLEX®
Fire Performance		Flame Retardant
Size		5/8
Length	m (ft)	12.2 (40)
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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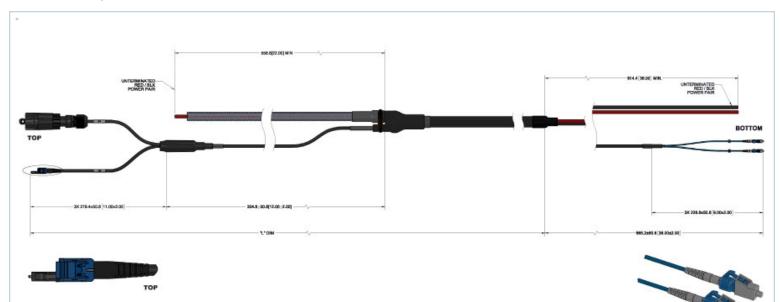
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uickShip 2.0 Program Information:	ownload	
XTERNAL DOCUMENT LINKS		NOTES
acket Specifications		UL1569 Type MC, UL Listed
nstallation Temperature	°C (°F)	-20 to 65 (-4 to 149)
Operation Temperature	°C (°F)	-40 to 65 (-40 to 149)
torage Temperature	°C (°F)	-40 to 70 (-40 to 158)
ESTING AND ENVIRONMENTAL		
iber Termination End 2		LC Connector with FullAXS Compatibility
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)
O Break-out Length (Top)	mm (in)	585 (23)
Optical Loss	dB/Km	0.5 @ 1310 nm 0.5 @ 1550 nm
O Standards (Meets or Exceeds)		UL Listed Type OFNR (UL1666), RoHS Compliant
ingle Bending Radius	mm (in)	55 (2.2)
ore/Clad	µm	9/125
/O Cable Type		G657-A2 Single Mode, Bend Tolerant
lumber of F/O Strands		2
O CABLE SPECIFICATIONS		Semi-figid, name-retardant polyolenn, with not melt adhesive
C cable sealing method		Semi-rigid, flame-retardant polyolefin, with hot melt adhesive
reak-out length (Bottom)	mm (in)	914 (36)
Break-out length (Top)	mm (in)	650 (26)
OC Standards (Meets or Exceeds)	mm (in)	6.45 (0.25) For use in Type MC per UL 1569, PVC Nylon, RoHS/REACH Compliant
OC Cable Single Bending Radius	mm (in)	83 (3.3)
OC Wire Jacket Material	<i>(</i> ,)	PVC/Nylon
Cross Section of Power Cable	mm ² (AWG)	13.3 (6)
Maximum DC-Resistance Power Cable	Ω/km (Ω/kft)	1.4 (0.42)
lumber of DC Pairs		1
C POWER CABLE SPECIFICATIONS		
iameter Corrugated Armor		18.5 (0.73)
laximum DC-resistance of Armor		1.97 (0.6)
Armor Type		Corrugated Aluminum



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ADDITIONAL ASSEMBLIES - 2 STRAND SM FIBER

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

ADDITIONAL ASSEMBLIES - 3 STRAND SM FIBER

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

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	
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	