

PRODUCT DATASHEET

HB114-U6S12-380-TH

HYBRIFLEX® Hybrid Feeder Cabling Solution 6x12, 1-1/4", 6 pairs 6AWG, 12 pairs Single-Mode Fiber, DLC Connectors, 380 ft

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 as well as works in conjuction with and can connect multiple RRHs with a single feeder. Standard RFS CELLFLEX® accessories can be used with HYBRIFLEX cable. Both pre-connectorized and on-site options are available.

FEATURES / BENEFITS

- Aluminum corrugated armor with outstanding bending characteristics Minimizes installation time and enables mechanical protection and shielding
- Same accessories as 1-1/4" coaxial cable
- Outer conductor grounding Utilizes same grounding methods as coaxial cable
- 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
- Maximum robustness Fully armored cable includes riser trunk and top outdoor breakout

TECHNICAL FEATURES

STRUCTURE

STRUCTURE				
Cable Type		HYBRIFLEX®		
Fire Performance		Flame Retardant		
Size		1-1/4"		
Length	m (ft)	380 (115.82)		
MECHANICAL SPECIFICATIONS				
Outer Diameter Nominal	mm (in)	39.4 (1.55)		
Cable Weight	kg/m (lb/ft)	2.5 (1.7)		
Minimum Bending Radius, Single Bend	mm (in)	152 (6)		
Minimum Bending Radius, Multiple Bends	mm (in)	254 (10)		
Recommended / Maximum Clamp Spacing	m (ft)	1 / 1.2 (3.25 / 4)		
ARMOR SPECIFICATIONS				
Armor Type		Corrugated Aluminum		
Maximum DC-Resistance of Armor	Ω/km (Ω/kft)	0.9 (0.27)		
Diameter Corrugated Armor	mm (in)	35.9 (1.41)		

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CABLE JACKET		
UV-Protection Individual and External Jacket		Yes
DC POWER CABLE SPECIFICATIONS		
Number of DC Pairs		6
Maximum DC-Resistance Power Cable	Ω/km (Ω/kft)	1.4 (0.41)
Cross Section of Power Cable	mm² (AWG)	13.3 (6)
DC Cable Single Bending Radius	mm (in)	137 (5.4)
DC Cable Diameter	mm (in)	6.45 (0.254)
DC Cable Jacket Material		PVC/Nylon
DC Standards (Meets or Exceeds)		For use in UL 83, PVC/Nylon, RoHS/REACH Compliant
Break-out Length (Top)	mm (in)	812 (32)
Break-out Length (Bottom)	mm (in)	812 (32)
Alarm Wire		18, 18 AWG
Alarm Wire Standards (Meets or Exceeds)		UL Standard 1063, 1581 VW-1, MTW Oil and Gasoline RES1 SUNRES (Cable meets UL requirements), RoHS/REACH Compliant
F/O CABLE SPECIFICATIONS		
F/O Cable Type		G657-A1 Single Mode, Bend Tolerant
Number of F/O Pairs		12
Core/Clad	μm	9/125
Secondary Protection Nominal	μm (in)	900 (0.035)
Single Bending Radius	mm (in)	157 (6.2)
Cable Diameter		5.512 (0.217)
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
Fiber Termination End 1		DLC connector
Fiber Termination End 2		DLC connector
FO Break-out Length (Top)	mm (in)	889 (35)
FO Break-out Length (Bottom)	mm (in)	889 (35)
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		UL2882, UL Listed

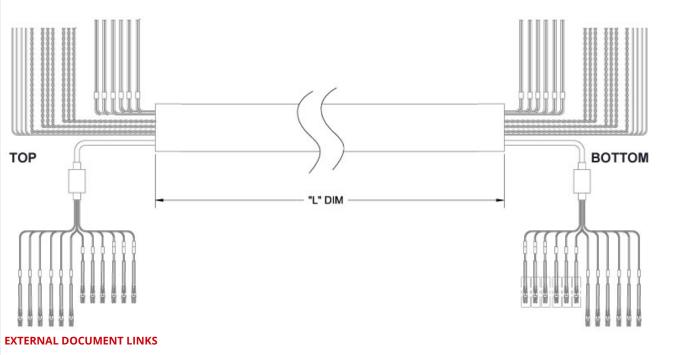
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Installation Guidelines: Download QuickShip 2.0 Program Information: Download On-line Factory Test Results: View

NOTES

Nominal length equals length of trunk not including top and bottom breakouts; breakout lengths add additionally to the total assembly length tip to tip. Includes 9 pairs of wires used to carry alarm signals.

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		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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ADDITIONAL ASSEMBLY LENGTHS		
Length (ft)	Model Number	
10	HB114-U6S12-10-TH	
20	HB114-U6S12-20-TH	
30	HB114-U6S12-30-TH	
40	HB114-U6S12-40-TH	
50	HB114-U6S12-50-TH	
60	HB114-U6S12-60-TH	
70	HB114-U6S12-70-TH	
80	HB114-U6S12-80-TH	
90	HB114-U6S12-90-TH	
100	HB114-U6S12-100-TH	
110	HB114-U6S12-110-TH	
120	HB114-U6S12-120-TH	
130	HB114-U6S12-130-TH	
140	HB114-U6S12-140-TH	
150	HB114-U6S12-150-TH	
160	HB114-U6S12-160-TH	
170	HB114-U6S12-170-TH	
180	HB114-U6S12-180-TH	
190	HB114-U6S12-190-TH	
200	HB114-U6S12-200-TH	
210	HB114-U6S12-210-TH	
220	HB114-U6S12-220-TH	
230	HB114-U6S12-230-TH	
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340	HB114-U6S12-340-TH	
350	HB114-U6S12-350-TH	
360	HB114-U6S12-360-TH	

Length (ft)Model Number370HB114-U6S12-370-TH380HB114-U6S12-380-TH390HB114-U6S12-400-TH400HB114-U6S12-400-TH410HB114-U6S12-400-TH420HB114-U6S12-430-TH430HB114-U6S12-430-TH440HB114-U6S12-430-TH450HB114-U6S12-430-TH460HB114-U6S12-430-TH470HB114-U6S12-430-TH480HB114-U6S12-430-TH500HB114-U6S12-430-TH501HB114-U6S12-430-TH502HB114-U6S12-500-TH510HB114-U6S12-500-TH510HB114-U6S12-500-TH510HB114-U6S12-500-TH510HB114-U6S12-500-TH510HB114-U6S12-500-TH510HB114-U6S12-500-TH510HB114-U6S12-500-TH510HB114-U6S12-500-TH510HB114-U6S12-500-TH510HB114-U6S12-500-TH510HB114-U6S12-500-TH511HB114-U6S12-600-TH512HB114-U6S12-600-TH514HB114-U6S12-600-TH515HB114-U6S12-600-TH516HB114-U6S12-600-TH517HB114-U6S12-600-TH518HB114-U6S12-600-TH610HB114-U6S12-600-TH611HB114-U6S12-700-TH612HB114-U6S12-700-TH613HB114-U6S12-800-TH614HB114-U6S12-800-TH615HB114-U6S12-800-TH616HB114-U6S12-800-TH617HB114-U6S12-800-TH618	ADDITIONAL ASSEMBLY LENGTHS			
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