

HBF058-08U1SS2-20FS

HYBRIFLEX® RRH Hybrid Jumper, 5/8", 1 pair 8AWG, 2 Single Strand, Single-Mode Fiber with LC to Elongated LC Clip, 20 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

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Cable Type		HYBRIFLEX®		
Fire Performance		Flame Retardant		
Size		5/8		
Length	m (ft)	6 (20)		

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	Yes
External Jacket	Tes



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rmor Type		Corrugated Aluminum
Maximum DC-resistance of Armor		1.97 (0.6)
Diameter Corrugated Armor		18.5 (0.73)
OC 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)
OC Wire Jacket Material		PVC/Nylon
OC Cable Single Bending Radius	mm (in)	83 (3.3)
OC Cable Diameter	mm (in)	5.5 (0.21)
OC Standards (Meets or Exceeds)		For use in Type MC per UL 1569, PVC Nylon, RoHS/REACH Compliant
Break-out length (Top)	mm (in)	650 (25)
Break-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		2
O Cable Type		G657-A2 Single Mode, Bend Tolerant
ore/Clad	μm	9/125
ingle Bending Radius	mm (in)	83 (3.3)
O Standards (Meets or Exceeds)		UL Listed Type OFNR (UL1666), RoHS Compliant
Optical Loss	dB/Km	0.5 @ 1310 nm 0.5 @ 1550 nm
O Break-out Length (Top)	mm (in)	850 (33)
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)
Operation 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

Installation Guidelines: Download

QuickShip 2.0 Program Information: Download

On-line Factory Test Results: View

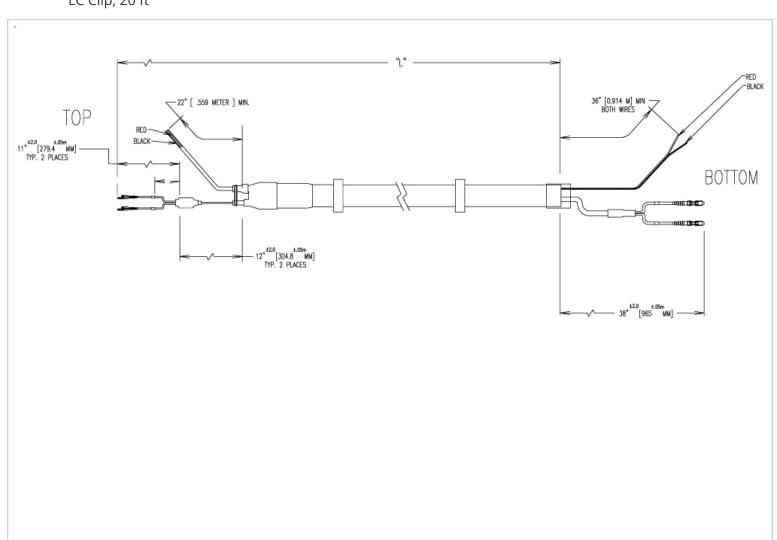
Specifically designed for Samsung RRH.

www.rfstechnologies.com REV: A HBF058-08U1SS2-20FS REV DATE: 15 Mar 2021



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ADDITIONAL ASSEMBLIES - 1 PAIR SM FIBER

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

ADDITIONAL ASSEMBLIES - 2 PAIR SM FIBER

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Length, ft	Model Number
10	HBF058-08U1S2-10FS
20	HBF058-08U1S2-20FS
30	HBF058-08U1S2-30FS
40	HBF058-08U1S2-40FS
50	HBF058-08U1S2-50FS
60	HBF058-08U1S2-60FS
70	HBF058-08U1S2-70FS
80	HBF058-08U1S2-80FS
90	HBF058-08U1S2-90FS
100	HBF058-08U1S2-100FS

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HYBRIFLEX® RRH Hybrid Jumper, 5/8", 1 pair 8AWG, 2 Single Strand, Single-Mode Fiber with LC to Elongated LC Clip, 20 ft

ADDITIONAL ASSEMBLIES - 1 STRAND SM FIBER

Length, ft	Model Number
10	HBF058-08U1SS-10FS
15	HBF058-08U1SS-15FS
20	HBF058-08U1SS-20FS
30	HBF058-08U1SS-30FS
40	HBF058-08U1SS-40FS
50	HBF058-08U1SS-50FS
60	HBF058-08U1SS-60FS
70	HBF058-08U1SS-70FS
80	HBF058-08U1SS-80FS
90	HBF058-08U1SS-90FS
100	HBF058-08U1SS-100FS

ADDITIONAL ASSEMBLIES - 2 STRAND SM FIBER

Length, ft	Model Number
10	HBF058-08U1SS2-10FS
15	HBF058-08U1SS2-15FS
20	HBF058-08U1SS2-20FS
30	HBF058-08U1SS2-30FS
40	HBF058-08U1SS2-40FS
50	HBF058-08U1SS2-50FS
60	HBF058-08U1SS2-60FS
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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	4
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	