



HB078-U3S6-xxTH Series

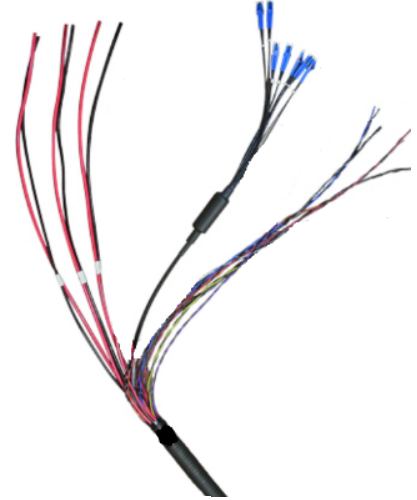
HYBRIFLEX® Hybrid Feeder Cabling Solution 3x6, 7/8", 3 pairs 4AWG, 6 pairs Single-Mode Fiber, DLC Connectors, Various Lengths (xx ft)

RFS Technologies' HYBRIFLEX Remote Radio Head (RRH) hybrid feeder cabling solution combines optical fiber and DC power for RRHs in a single lightweight 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 cable. It may eliminate the need for junction boxes as well as works in conjunction with and can connect multiple RRHs with a single feeder. Standard RFS Technologies' CELLFLEX® accessories can be used with HYBRIFLEX cables.

FEATURES / BENEFITS

- Copper foil armor with outstanding bending characteristics – Minimizes installation time and enables mechanical protection and shielding
- Same accessories as 7/8" coaxial cables
- Outer conductor grounding – Utilizes same grounding methods as coaxial cables
- 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 copper-foiled 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



TECHNICAL FEATURES

STRUCTURE

Cable Type		HYBRIFLEX®
Fire Performance		Flame Retardant
Size		7/8"
Length		60ft to 600ft in 20ft increment

MECHANICAL SPECIFICATIONS

Outer Diameter Nominal	mm (in)	30.43 (1.20)
Cable Weight	kg/m (lb/ft)	1.935 (1.3)
Minimum Bending Radius, Single Bend	mm (in)	127 (5)
Minimum Bending Radius, Multiple Bends	mm (in)	254 (10)
Recommended / Maximum Clamp Spacing	m (ft)	1 / 1.2 (3.25 / 4)



You Connect the World. We Make it Easy.®



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ARMOR SPECIFICATIONS

Armor Type		Copper Foil
Maximum DC-Resistance of Armor	Ω/km (Ω/kft)	1.11 (0.34)
Diameter Corrugated Armor	mm (in)	25.6 (1.01)

CABLE JACKET

UV-Protection Individual and External Jacket		Yes
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DC POWER CABLE SPECIFICATIONS

Number of DC Pairs		3
Maximum DC-Resistance Power Cable	Ω/km (Ω/kft)	0.83 (0.25)
Cross Section of Power Cable	mm ² (AWG)	21.1 (4)
DC Cable Single Bending Radius	mm (in)	137 (5.4)
DC Cable Diameter	mm (in)	7.8 (0.308)
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)	1219 (48)
Break-out Length (Bottom)	mm (in)	2438 (96)
Alarm Wire		2 Pairs, 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/A2 Single Mode, Bend Tolerant
Number of F/O Pairs		6
Core/Clad	μm	9/125
Secondary Protection Nominal	μm (in)	900 (0.035)
Single Bending Radius	mm (in)	83 (3.3)
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)	1219 (48)
FO Break-out Length (Bottom)	mm (in)	2438 (96)

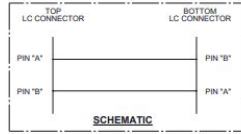


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TESTING AND ENVIRONMENTAL

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



EXTERNAL DOCUMENT LINKS

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 2 pairs of wires used to carry alarm signals.



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AVAILABLE ASSEMBLY LENGTHS

Model Number	Length (ft)
HB078-U3S6-60TH	60
HB078-U3S6-80TH	80
HB078-U3S6-100TH	100
HB078-U3S6-120TH	120
HB078-U3S6-140TH	140
HB078-U3S6-160TH	160
HB078-U3S6-180TH	180
HB078-U3S6-200TH	200
HB078-U3S6-220TH	220
HB078-U3S6-240TH	240
HB078-U3S6-260TH	260
HB078-U3S6-280TH	280
HB078-U3S6-300TH	300
HB078-U3S6-320TH	320
HB078-U3S6-340TH	340
HB078-U3S6-360TH	360
HB078-U3S6-380TH	380
HB078-U3S6-400TH	400
HB078-U3S6-420TH	420
HB078-U3S6-440TH	440
HB078-U3S6-460TH	460
HB078-U3S6-480TH	480
HB078-U3S6-500TH	500
HB078-U3S6-520TH	520
HB078-U3S6-540TH	540
HB078-U3S6-560TH	560
HB078-U3S6-580TH	580
HB078-U3S6-600TH	600