

HB078-13U3S6-150M2

HYBRIFLEX® Hybrid Feeder Cabling Solution 3x6, 6AWG, 7/8", Single-Mode Fiber, DLC to ODC, with 6AWG DC breakout top, 150 m

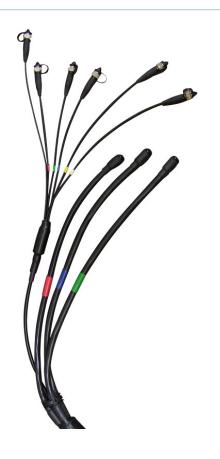
PRODUCT DESCRIPTION

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 as well as works in conjuction with and can connect multiple RRHs with a single feeder. Standard RFS Technologies 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 7/8" 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
- Outdoor, black PE jacket Ensures long-lasting cable protection
- Shielded DC wire Jacketed and braided cable on top breakout provides grounding and EMI protection
- · Maximum robustness Fully armored cable includes riser trunk and top outdoor breakout



TECHNICAL FEATURES

STRUCTURE

Spacing

Cable Type		HYBRIFLEX®		
Size		7/8"		
Length	m (ft)	150 (492)		
MECHANICAL SPECIFICATIONS				

Outer Diameter Nominal mm (in) 28.2 (1.11) **Cable Weight** kg/m (lb/ft) 1.79 (1.2) Minimum Bending Radius, Single mm (in) 125 (5) Bend Minimum Bending Radius, mm (in) 254 (10) **Multiple Bends** Recommended / Maximum Clamp m (ft) 1 / 1.2 (3.25 / 4)

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rmor Type		Corrugated Aluminum
Maximum DC-Resistance of	Ω/km (Ω/kft)	1.05 (0.32)
	mm (in)	25.4 (0.00)
iameter Corrugated Armor	mm (in)	25.4 (0.99)
ABLE JACKET		
IV-Protection Individual and xternal Jacket		Yes
acket Material		Outdoor, Polyethylene, Black
C POWER CABLE SPECIFICATIONS		
lumber of DC Pairs		3
Maximum DC-Resistance Power able	Ω/km (Ω/kft)	1.4 (0.42)
ross Section of Power Cable	mm² (AWG)	13.3 (6)
C Wire Jacket Material		PVC/Nylon
C Cable Single Bending Radius	mm (in)	83 (3.3)
C 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)	6000 (236)
reak-out Length (Bottom)	mm (in)	335 (14)
C Cable Sealing Method		Semi-rigid flame-retardant polyolefin, with hot melt adhesive
O CABLE SPECIFICATIONS		
/O Cable Type		G657-A1 Single Mode, Bend Tolerant
lumber of F/O Pairs		6
ore/Clad	μm	9/125
econdary Protection Nominal	μm (in)	900 (0.035)
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
iber Termination End 1		ODC plug
ber Termination End 2		DLC connector
O Break-out Length (Top)	mm (in)	914 (36)
O Break-out Length (Bottom)	mm (in)	1670 (65.7)
able Sealing Method		Semi-rigid flame-retardant polyolefin, with hot melt adhesive
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)

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ASSEMBLY LOSS		
Optical Insertion Loss, Riser or umper Tested Individually	Riser or Jumper	0.4 dB typical @1310/1550nm
SYSTEM LOSS		
Optical Insertion Loss, Riser and umper Connected in Series	Total, End to End	0.7dB typical / 1.25dB max @1310/1550nm

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EXTERNAL DOCUMENT LINKS

Installation Guidelines: <u>Download</u> On-line Factory Test Results: <u>View</u>

NOTES

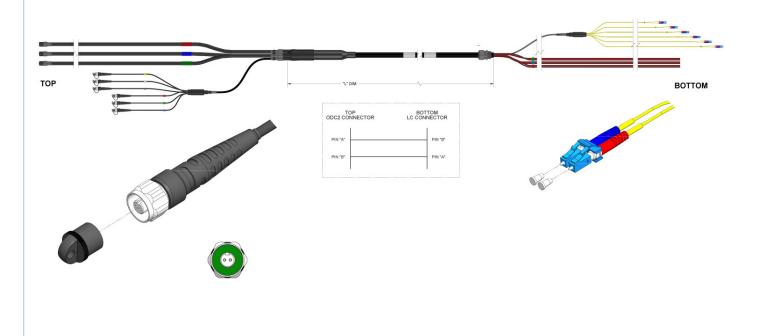
Nominal length equals length of trunk not including top and bottom breakouts; breakout lengths add additionally to the total assembly length tip to tip.

Top Breakout - DC Power Cable Specifications:

- No of DC pairs 3; Specifications per 1 pair:
- Maximum DC-Resistance Power Cable Ω /km (Ω /ft) 1.4 (0.42)
- Cross Section of Power Cable mm2 (AWG) 13.3 (6)
- Overall Cable Diameter mm (in) 17.8 (0.708)
- DC Cable Jacket Material PVC
- EMI Shield Tinned Copper Braid

ADDITIONAL ASSEMBLY LENGTHS

Length (m)	Model Number
50	HB078-13U3S6-50M2
60	HB078-13U3S6-60M2
70	HB078-13U3S6-70M2
80	HB078-13U3S6-80M2
90	HB078-13U3S6-90M2
100	HB078-13U3S6-100M2
110	HB078-13U3S6-110M2
120	HB078-13U3S6-120M2
130	HB078-13U3S6-130M2
140	HB078-13U3S6-140M2
150	HB078-13U3S6-150M2
160	HB078-13U3S6-160M2
170	HB078-13U3S6-170M2



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