HYBRIFLEX® RRH Hybrid Jumper, 1/2", 1 pair 10AWG, 2 pair Single-Mode Fiber with DLC Connectors, 80 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

STRUCTURE		
Cable Type		HYBRIFLEX®
Fire Performance		Flame Retardant
Size		1/2
Length	m (ft)	24.4 (80)
MECHANICAL SPECIFICATIONS		
Outer Diameter Nominal	mm (in)	15.8 (0.62)
Cable Weight	kg/m (lb/ft)	0.36 (0.24)
Minimum Bending Radius, Single Bend	mm (in)	76.2 (3)
Minimum Bending Radius, Multiple Bends	mm (in)	127 (5)
Recommended / Maximum Clamp Spacing	m (ft)	1 / 1.2 (3.25 / 4)
CABLE JACKET		
UV-Protection Individual and External Jacket		Yes
ARMOR SPECIFICATIONS		
Armor Type		Corrugated Aluminum
Maximum DC-resistance of Armor		2.4 (0.73)
Diameter Corrugated Armor		13.8 (0.55)

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umber of DC Pairs		1
aximum DC-Resistance Power able	Ω/km (Ω/kft)	3.41 (1.04)
ross Section of Power Cable	mm² (AWG)	5.3 (10)
C Wire Jacket Material		PVC/Nylon
C Cable Single Bending Radius	mm (in)	83 (3.3)
C Cable Diameter	mm (in)	4.2 (0.165)
C Standards (Meets or Exceeds)		For use in Type MC per UL 1569, PVC Nylon, RoHS/REACH Compliant
reak-out length (Top)	mm (in)	559 (22)
reak-out length (Bottom)	mm (in)	914 (36)
C cable sealing method		Semi-rigid, flame-retardant polyolefin, with hot melt adhesive
O CABLE SPECIFICATIONS		
umber of F/O Pairs		2
O Cable Type		G657-A2 Single Mode, Bend Tolerant
ore/Clad	μm	9/125
ngle Bending Radius	mm (in)	83 (3.3)
O Standards (Meets or kceeds)		UL Listed Type OFNR (UL1666), RoHS Compliant
ptical Loss	dB/Km	0.5 @ 1310 nm 0.5 @ 1550 nm
O Break-out Length (Top)	mm (in)	584 (23)
O Break-out Length (Bottom)	mm (in)	965 (38)
able Sealing Method		Semi-rigid flame-retardant polyolefin, with hot melt adhesive
ber Termination End 1		DLC Connector
ber Termination End 2		DLC Connector
ESTING AND ENVIRONMENTAL		
torage Temperature	°C (°F)	-40 to 70 (-40 to 158)
peration Temperature	°C (°F)	-40 to 65 (-40 to 149)
stallation Temperature	°C (°F)	-20 to 65 (-4 to 149)
cket Specifications		UL1569 Type MC, UL Listed
rage Temperature eration Temperature tallation Temperature	°C (°F)	-40 to 65 (-40 to 149) -20 to 65 (-4 to 149)

EXTERNAL DOCUMENT LINKS

Installation Guidelines: <u>Download</u>

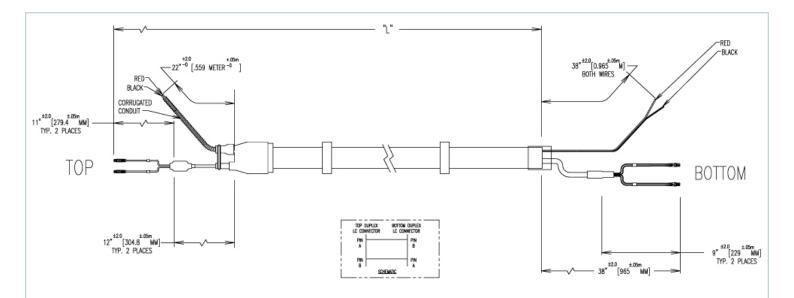
QuickShip 2.0 Program Information: <u>Download</u>

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

NOTES

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ADDITIONAL ASSEMBLIES - 1 PAIR SM FIBER

Length, ft	Model Number
10	HBF012-05U1S1-10F
20	HBF012-05U1S1-20F
30	HBF012-05U1S1-30F
40	HBF012-05U1S1-40F
50	HBF012-05U1S1-50F
60	HBF012-05U1S1-60F
79	HBF012-05U1S1-70F
80	HBF012-05U1S1-80F
90	HBF012-05U1S1-90F
100	HBF012-05U1S1-100F

ADDITIONAL ASSEMBLIES - 2 STRAND SM FIBER

Length, ft	Model Number
10	HBF012-05U1SS2-10F
20	HBF012-05U1SS2-20F
30	HBF012-05U1SS2-30F
40	HBF012-05U1SS2-40F
50	HBF012-05U1SS2-50F
60	HBF012-05U1SS2-60F
70	HBF012-05U1SS2-70F
80	HBF012-05U1SS2-80F
90	HBF012-05U1SS2-90F
100	HBF012-05U1SS2100F

ADDITIONAL ASSEMBLIES - 2 PAIR SM FIBER

Length, ft	Model Number
10	HBF012-05U1S2-10F
20	HBF012-05U1S2-20F
30	HBF012-05U1S2-30F
40	HBF012-05U1S2-40F
50	HBF012-05U1S2-50F
60	HBF012-05U1S2-60F
70	HBF012-05U1S2-70F
80	HBF012-05U1S2-80F
90	HBF012-05U1S2-90F
100	HBF012-05U1S2-100F

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