HYBRIFLEX® RRH Hybrid Jumper 1x1, 8 AWG, 5/8", Single-Mode Fiber with LC connector

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 and eliminate the need for and cost of cable grounding.

HYBRIFLEX combines optical fiber (multi-mode or single-mode) and power in a single corrugated cable. It eliminates the need for junction boxes and can connect multiple RRHs with a single feeder. Standard RFS CELLFLEX® accessories can be used with HYBRIFLEX cable. Both preconnectorized and on-site options are available

FEATURES / BENEFITS

- Aluminum corrugated armor with outstanding bending characteristics -> Minimizes installation time and enables mechanical protection and shielding
- Outer conductor grounding -> Eliminates typical grounding requirements and 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



Technical features

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Cable Type		HYBRIFLEX® Standard
Size		5/8
Fire Performance		Flame Retardant
Length	m (ft)	4.572 (15)

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, Multi Bends	mm (in)	254 (10)
Recommended / Maximum Clamp Spacing	m (ft)	1 / 1.2 (3.25 / 4)

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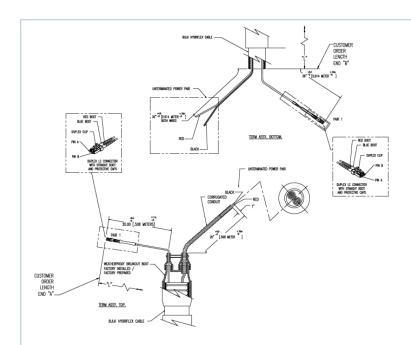


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lumber of DC Pairs		1	
Maximum DC-Resistance Power Cable	Ω/km (Ω/kft)	2.2 (0.66)	
Cross Section of Power Cable	mm² (AWG)	8.4 (8)	
OC Wire Jacket Material		PVC	
DC Cable Single Bending Radius	mm (in)	104 (4.1)	
DC Cable Diameter	mm (in)	5.5 (0.22)	
DC Cable Jacket		PVC	
OC Standards (Meets or Exceeds)		For use in Type MC per UL 1569, PVC Nylon, RoHS/REACH Compliant	
Break-out length (Top)	mm(in)	508 +/-0 (20 +/-0)	
Break-out length (Bottom)	mm(in)	914 +/-0 (36 +/-0)	
CABLE JACKET	:		
JV-Protection Individual and external Jacket		Yes	
ARMOR SPECIFICATIONS			
Armor Type		Corrugated Aluminum	
Maximum DC-Resistance of Armor	Ω/km (Ω/kft)	1.97 (0.6)	
Diameter Corrugated Armor	mm (in)	18.5 (0.73)	
O CABLE SPECIFICATIONS			
/O Cable Type		Single-Mode Bend Tolerant	
Number of F/O Pairs		1	
Core/Clad	μm	9 /125	
ingle Bending Radius	mm (in)	104 (4.1)	
/O Standards (Meets or xceeds)		UL Listed Type OFNR (UL1666), RoHS Compliant	
Optical Loss	dB/Km	0.5 @ 1310 nm 0.5 @ 1550 nm	
Fiber Termination End 1		LC Connector	
iber Termination End 2		LC Connector	
O Break-out length (Top)	mm(in)	508 +/-0 (20 +/-0)	
O Break-out length (Bottom)	mm(in)	914 +/-0 (36 +/-0)	
Cable sealing method		Semi-rigid flame-retarded polyolefin, with hot melt adhesive	
ESTING 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		UL1569 Type MC, UL Listed	

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External Document Links

Installation Instructions
Quick Ship 2.0 Program Information

Notes

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