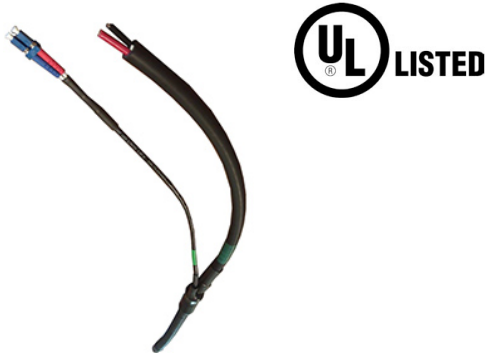




HYBRIFLEX® RRH Hybrid Jumper 1x1, 8 AWG, 5/8", Single-Mode Fiber with LC FullAXS Connectors



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 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
- ➔ 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 assemblies→Allows both indoor and outdoor applications

Technical Features

STRUCTURE

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)

DC 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	mm ² (AWG)	8.4 (8)
DC Wire Jacket Material		PVC
DC Cable Diameter	mm (in)	6.8 (0.27)
DC Cable Jacket		PVC
DC Standards (Meets or Exceeds)		For use in Type MC per UL 1569, PVC Nylon, RoHS/REACH Compliant

CABLE JACKET

UV-Protection Individual and External Jacket		Yes
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ARMOR SPECIFICATIONS

Armor Type		Corrugated Aluminum
Maximum DC-Resistance of Armor	Ω/km (Ω/kft)	1.97 (0.65)
Diameter Corrugated Armor	mm (in)	18.5 (0.73)

F/O CABLE SPECIFICATIONS

F/O Cable Type		Single-Mode Bend Tolerant
Number of F/O Pairs		1
Core/Clad	μm	9 /125
Single Bending Radius	mm (in)	104 (4.1)
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		LC FullAXS connectors
Fiber Termination End 2		LC FullAXS Connector
FO Break-out length	mm(in)	20 +/-36 (508 +/-914)
Cable sealing method		Semi-rigid flame-retarded polyolefin, with hot melt adhesive

TESTING AND ENVIRONMENTAL

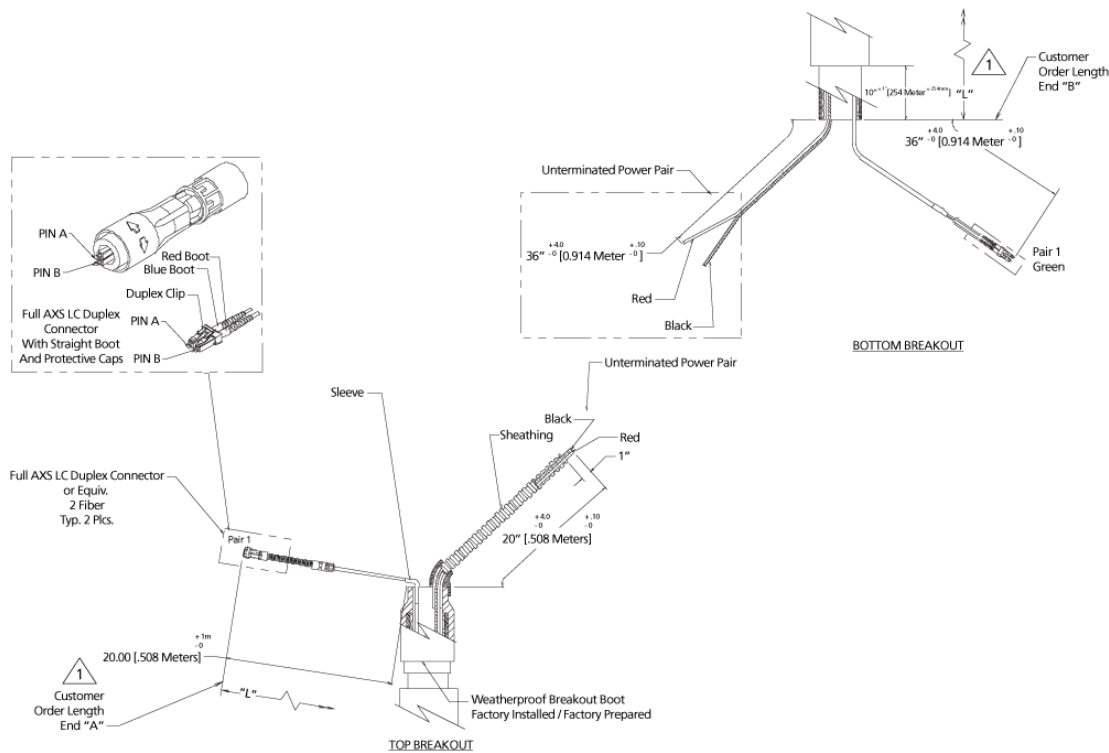
Storage Temperature	°C (°F)	-40 to 70 (40 to 158)
Operation Temperature	°C (°F)	-40 to 65 (-40 to 149)
Installation Temperature	°C (°F)	-20 to 65 (-4 to 149)
Jacket Specifications		UL1569 Type MC, UL Listed
Alarm Wire Standards (Meets or Exceeds)		UL Standard 1063, 1581 VW-1, MTW Oil and Gasoline RES1 SUNRES (Cable meets UL requirements), RoHS/REACH Compliant

External Document Links

Installation Instructions
Quick Ship Information

Notes

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



Drawing