

**HB012-S-02U2-S6F20**

HYBRIFLEX™ Standard LTE, Cabling Solution for 2 RRUs



RFS' HYBRIFLEX™ cabling solution for Remote Radio Unit (RRU) combines optical fiber and DC power in a single lightweight aluminum corrugated cable, making it the world's most innovative solution for RRU deployments. It was developed to reduce installation complexity and cost at Cellular sites.

HYBRIFLEX™ cabling solutions allows mobile operators deploying RRU architecture to standardized installation process and eliminates the need and the cost for an internal grounding wire.

The HYBRIFLEX™ cable is part of a site installation kit. It consists of an armored bundle of 4 DC wires, 2 F/O distribution cables and a rip cord to adjust the breakout part of the cable.

Features / Benefits

- A corrugated armor with excellent bending characteristics minimizes installation time and enables mechanical protection and EMC shielding
- Outer conductor grounding eliminates typical additional grounding requirement and saves on installation costs
- Lightweight solution and compact design decreases tower loads
- Robust cabling eliminates need for expensive cable trays and conduits
- Installation of stripped fiber optic cable pairs directly to RRH reduces CAPEX and wind load by eliminating need for junction boxes
- F/O and DC housed in single corrugated cable saves CAPEX by standardizing RRH cable installation and reducing installation equipments

Technical Features**STRUCTURE**

Cable Type	Hybrid Cable
Size	1/2
Fire Performance	Halogene Free
Number of DC Pairs	2
Jacket Material	UV stable black LSZH

MECHANICAL SPECIFICATIONS

Outer Diameter Nominal	14.8mm (0.583in)
Minimum Bending Radius	185mm (7.283in)
Minimum Bending Radius	370mm (14.567in)
Recommended / Maximum Clamp Spacing	0.6 / 1 (2 / 3.25)
Tensile Strength (Operating)	600 N
Jacket Material	UV stable black LSZH
Tensile Strength (Installation)	1500 N
Crush Resistance (Operating)	300 N / 100 mm
Crush Resistance (Installation)	1000 N / 100 mm

DC POWER CABLE SPECIFICATIONS

Cross Section of Power Cable	2.08 mm ² (14 AWG)
Shielding	provided by the Al armor

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ARMOR SPECIFICATIONS

Armor Type	Corrugated Aluminum tube
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F/O CABLE SPECIFICATIONS

F/O Cable Type	Tight-Buffer, Singlemode
Number of F/O Pairs	6
Core/Clad	9 /125
F/O Standards (Meets or Exceeds)	ITU G 657.A2
Fiber Attenuation	@1310nm 0,40dB/km; @1550nm 0,30dB/km dB/km

TESTING AND ENVIRONMENTAL

Storage Temperature	-20°C to 80°C (-4°F to 176°F)
Operation Temperature	-20°C to 80°C (-4°F to 176°F)
Installation Temperature	-20°C to 50°C (-4°F to 122°F)