



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 3 shielded DC cables, 3 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	3 RRU HYBRIFLEX™ Direct LTE
Size	7/8
Fire Performance	Halogene Free
Number of DC Pairs	3
Jacket Material	UV stable black PE

MECHANICAL SPECIFICATIONS

Outer Diameter Nominal	27.8mm (1.09in)
Cable Weight	0.76kg/m (0.51lb/ft)
Minimum Bending Radius	120mm (4.7in)
Minimum Bending Radius	250mm (9.8in)
Tensile Strength	700N (157lb)
Recommended / Maximum Clamp Spacing	0.8 / 1 (2.75 / 3.3)
Jacket Material	UV stable black PE

**HB078-1-04S3-M6J**

HYBRIFLEX™ Direct LTE, Cabling Solution for 3 RRU

DC POWER CABLE SPECIFICATIONS

Maximum DC-Resistance Power Cable	4.95Ω/km (1.51Ω/kft)
Cross Section of Power Cable	4 mm ² (12 AWG)
Shielding	braid
DC Wire Jacket Material	Polyethylene, PE, Metalhydroxite Filling
DC Wire Jacket Thickness	0.5mm (0.02in)
DC Cable Single Bending Radius	100mm (3.94in)
DC Cable Diameter	9.9mm (0.39in)
DC Cable Jacket	UV stable black PE
DC Standards (Meets or Exceeds)	IEC 60229

ARMOR SPECIFICATIONS

Armor Type	Corrugated Aluminum tube
Maximum DC-Resistance of Armor	1.21Ω/km (0.37Ω/kft)
Copper Equivalent Cross Section of Armor	16 (5)
Diameter Corrugated Armor	25.2mm (0.99in)

F/O CABLE SPECIFICATIONS

F/O Cable Type	Tight-Buffer, Multimode
Number of F/O Pairs	6
Core/Clad	50 /125
Secondary Protection Nominal	900μm (0.035in)
Single Bending Radius	50mm (1.97in)
Cable Diameter mm (in)	4.8mm (0.19in)
F/O Cable Jacket	UV stable black PE
F/O Standards (Meets or Exceeds)	IEC 60793-2-10

TESTING AND ENVIRONMENTAL

Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Operation Temperature	-40°C to 85°C (-40°F to 185°F)
Installation Temperature	-20°C to 50°C (-4°F to 122°F)
Jacket Specifications	not applicable
LSZH Specification	not applicable

*Product Detail***Related Documents**



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HYBRIFLEX™ Direct LTE, Cabling Solution for 3 RRU



Handling Instruction.pdf
Installation Instructions



Ordering_code.pdf
Other Documents



Solution Overview_1.pdf
Other Documents



Solution Overview_3.pdf
Other Documents