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



HYBRIFLEX Series

Technical features

(Operating)

(Installation)
Tensile Strength

Spacing

Minimum Bending Radius,

Recommended / Maximum Clamp

STRUCTURE				
Cable Type		3 RRU HYBRIFLEX™ Direct LTE		
Size		7/8		
Fire Performance		Halogene Free		
C POWER CABLE SPECIFICATIONS				
Number of DC Pairs		3		
Maximum DC-Resistance Power Cable	Ω/km (Ω/kft)	3.3 (1)		
Cross Section of Power Cable	mm² (AWG)	6 (10)		
Shielding		braid		
DC Wire Jacket Material		Polyethylene, PE, Metalhydroxite Filling		
DC Wire Jacket Thickness	mm (in)	0.5 (0.02)		
DC Cable Single Bending Radius	mm (in)	100 (3.94)		
DC Cable Diameter	mm (in)	9.9 (0.39)		
DC Cable Jacket		UV stable black PE		
DC Standards (Meets or Exceeds)		IEC 60232		
MECHANICAL SPECIFICATIONS				
Cable Weight	kg/m (lb/ft)	0.85 (0.57)		
Minimum Bending Radius,	mm (in)	120 (4.7)		

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250 (9.8)

700 (157)

0.8 / 1 (2.75 / 3.3)

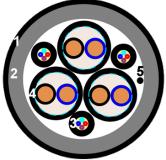
mm (in)

N (lb)

m (ft)



UV-Protection Individual and External Jacket		Yes			
Jacket Material		UV stable black PE			
Outer Diameter Nominal	mm (in)	27.8 (1.09)			
ARMOR SPECIFICATIONS					
Armor Type		Corrugated Aluminum tube			
Maximum DC-Resistance of Armor	Ω/km (Ω/kft)	1.21 (0.37)			
Copper Equivalent Cross Section of Armor	mm² (AWG)	16 (5)			
Diameter Corrugated Armor	mm (in)	25.2 (0.99)			
F/O CABLE SPECIFICATIONS					
F/O Cable Type		Tight-Buffer, Singlemode			
Number of F/O Pairs		6			
Core/Clad	μm	9 /125			
Secondary Protection Nominal	μm (in)	900 (0.035)			
Single Bending Radius	mm (in)	50 (1.97)			
Cable Diameter mm (in)		4.8 (0.19)			
F/O Cable Jacket		UV stable black PE			
F/O Standards (Meets or Exceeds)		ITU G 657.A2			
TESTING AND ENVIRONMENTAL					
Storage Temperature	°C (°F)	-40 to 85 (-40 to 185)			
Operation Temperature	°C (°F)	-40 to 85 (-40 to 185)			
Installation Temperature	°C (°F)	-20 to 50 (-4 to 122)			
Jacket Specifications		not applicable			
LSZH Specification		not applicable			



- 1) External Jacket 2) Aluminium Armor
- 3) F/O Cable
- 4) Shielded Power Cable
- 5) Rip Cord

Product Detail

External Document Links

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Handling Instruction.pdf	Notes
Ordering_code.pdf	
Solution Overview_1.pdf	
Solution Overview_3.pdf	
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