HYBRIFLEX™ Standard LTE, Cabling Solution for 1 RRU

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

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

The HYBRIFLEX[™] cable is part of a site installation kit. It consists of an armored bundle of 2 DC cables, 1 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



Single RRU HYBRIFLEX™ Standard LTE

Technical features

STRUCTURE
Cable Type

Size

Fire Performance		Halogene Free			
DC POWER CABLE SPECIFICATIONS					
Number of DC Pairs		1			
Maximum DC-Resistance Power Cable	Ω/km (Ω/kft)	4.95 (1.51)			
Cross Section of Power Cable	mm² (AWG)	4 (12)			
Shielding		provided by the Al armor			
DC Wire Jacket Material		Polyethylene, PE			
DC Wire Jacket Thickness	mm (in)	0.5 (0.02)			
DC Cable Single Bending Radius	mm (in)	25 (0.98)			
DC Cable Diameter	mm (in)	4 (0.157)			
DC Cable Jacket		UV stable black PE			
DC Standards (Meets or Exceeds)		IEC 60228			
MECHANICAL SPECIFICATIONS					

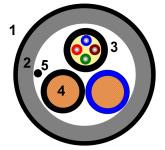
Cable Weight	kg/m (lb/ft)	0.23 (0.155)
Minimum Bending Radius, (Operating)	mm (in)	70 (2.7)
Minimum Bending Radius, (Installation)	mm (in)	125 (5)
Tensile Strength	N (lb)	150 (33.7)
Recommended / Maximum Clamp Spacing	m (ft)	0.6 / 1 (2 / 3.25)

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CABLE JACKET						
UV-Protection Individual and External Jacket		Yes				
Jacket Material		UV stable black PE				
Outer Diameter Nominal	mm (in)	15.8 (0.62)				
ARMOR SPECIFICATIONS						
Armor Type		Corrugated Aluminum tube				
Maximum DC-Resistance of Armor	Ω/km (Ω/kft)	2.78 (0.85)				
Copper Equivalent Cross Section of Armor	mm² (AWG)	8 (8)				
Diameter Corrugated Armor	mm (in)	13.8 (0.54)				
F/O CABLE SPECIFICATIONS						
F/O Cable Type		Tight-Buffer, Singlemode				
Number of F/O Pairs		2				
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) Power Cable
- 5) Rip Cord

Product Detail

External Document Links Handling Instruction.pdf

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