

HYBRIFLEX™ Standard LTE, Cabling Solution for 4 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 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 unshielded DC cables, 8 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 Serie

4 RRU HYBRIFLEX™ Standard LTE

Technical features

STRUCTURE Cable Type

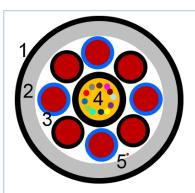
Size		7/8
Fire Performance		Halogene Free
DC POWER CABLE SPECIFICATIONS		
Number of DC Pairs		4
Maximum DC-Resistance Power Cable	Ω/km (Ω/kft)	3.3 (1)
Cross Section of Power Cable	mm² (AWG)	6 (10)
Shielding		provided by aluminium armor
DC Wire Jacket Material		Polyethylene, PE, Metalhydroxite Filling
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 and blue PE
DC Standards (Meets or Exceeds)		IEC 60228

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MECHANICAL SPECIFICATIONS Cable Weight kg/m (lb/ft) 0.86 (0.58) Minimum Bending Radius, mm (in) 120 (4.7) (Operating) Minimum Bending Radius, 250 (9.8) mm (in) (Installation) **Tensile Strength** N (lb) 700 (157) **Recommended / Maximum Clamp** m (ft) 0.8 / 1 (2.75 / 3.3) **Spacing CABLE JACKET UV-Protection Individual and** Yes **External Jacket** UV stable black PE Jacket Material **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** mm² (AWG) 16 (5) of Armor **Diameter Corrugated Armor** mm (in) 25.2 (0.99) **F/O CABLE SPECIFICATIONS** F/O Cable Type Tight-Buffer, Single mode Number of F/O Pairs 8 Core/Clad 9 /125 μm **Secondary Protection Nominal** μm (in) 900 (0.035) **Single Bending Radius** mm (in) 69 (2.71) Cable Diameter mm (in) 6.9 (0.27) 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

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

Product Detail

External Document Links Handling Instruction.pdf Ordering_code.pdf Solution Overview_4.pdf Solution Overview_5.pdf Notes

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