HYBRIFLEX™ Direct LTE, Cabling Solution for 3 RRU

Product Description

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.

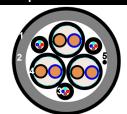
The HYBRIFLEX™ cable is part of a site installation kit. It consists of an armored bundle of 3 shielded DC cables, 3 F/O distribution cables and a rip cord to adjust the breakout part of the cable.

Features

- 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



Footprint Overview



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

Footprint F/O Cable Related Links

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

Specification Structure Cable Type 3 RRU HYBRIFLEX™ Direct LTE Size Fire Performance Halogene Free **Mechanical Specifications** Outer Diameter Nominal, mm (in) 27.8 (1.09) Cable Weight, kg/m (lb/ft) 0.76 (0.51) Minimum Bending Radius, Single Bend, mm (in) 120 (4.7) Minimum Bending Radius, Repeated Bends, mm (in) 250 (9.8) Tensile Strength, N (lb) 700 (157) Recommended / Maximum Clamp Spacing, m (ft) 0.8 / 1 (2.75 / 3.3) Cable Jacket UV-Protection Individual and External Jacket Jacket Material UV stable black PE **Armor Specifications** Armor Type Corrugated Aluminum tube Maximum DC Resistance of Armor, Ω/1000m (Ω/1000ft) 1.21 (0.37) Copper Equivalent Cross Section of Armor, mm² (AWG) 16 (5) Diameter of Corrugated Armor, mm (in) 25.2 (0.99) F/O Cable Specifications Number of F/O Pairs Tight-Buffer, Multimode Туре Core/Clad, µm 50 /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) IEC 60793-2-10 **DC Power Cable Specifications** Number of DC Pairs Maximum DC-Resistance of Power Cable, ohm/1000 m (ohm/1000 ft) 4.95 (1.51) Cross Section of Power Cable, mm2 (AWG) 4 (12) 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 60229 **Testing and Environmental** Storage Temperature, °C (°F) -40 to 85 (-40 to 185) Operation Temperature, °C (°F) -40 to 85 (-40 to 185)

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Installation Temperature, °C (°F)

LSZH Specification

Flame Retardant Jacket Specifications

-20 to 50 (-4 to 122)

not applicable

not applicable