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

3 RRU HYBRIFLEX™ Direct LTE

Technical features

| STR | HC | THE | F |
|-----|----|-----|---|

Cable Type

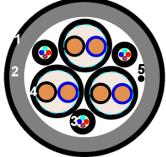
| Size | | 7/8 | | | | |
|-----------------------------------|---------------------------|--|--|--|--|--|
| Fire Performance | | Halogene Free | | | | |
| DC POWER CABLE SPECIFICATIONS | OWER CABLE SPECIFICATIONS | | | | | |
| Number of DC Pairs | 3 | | | | | |
| Maximum DC-Resistance Power Cable | Ω/km (Ω/kft) | 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 | | | | |
| MECHANICAL SPECIFICATIONS | IECHANICAL SPECIFICATIONS | | | | | |
| Cable Weight | kg/m (lh/ft) | 0.76 (0.51) | | | | |

| Cable Weight | kg/m (lb/ft) | 0.76 (0.51) |
|---|--------------|----------------------|
| Minimum Bending Radius, (Operating) | mm (in) | 120 (4.7) |
| Minimum Bending Radius, (Installation) | mm (in) | 250 (9.8) |
| Tensile Strength | N (lb) | 700 (157) |
| Recommended / Maximum Clamp Spacing | m (ft) | 0.8 / 1 (2.75 / 3.3) |

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| 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, Multimode | |
| Number of F/O Pairs | | 6 | |
| 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 | | |
| 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 | |



- External Jacket
 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 | |
| Solution Overview_3.pui | |
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