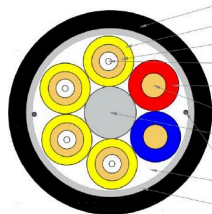


**HB012-S-02U1-S2F20**

HYBRIFLEX™ Standard LTE, Cabling Solution for 1 RRUs



Outer sheath
Optical unit sheath
Aramid yarn
Tight buffered fiber
Insulation
Copper conductor
CSM(FRP)
Ripcord
Filler
Aluminum tape

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 2 DC wires, 4 x 1 F/O distribution cables.

Feature / 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

Technical features**STRUCTURE**

| | |
|------------------|--------|
| Cable Type | Hybrid |
| Fire Performance | LSZH |

MECHANICAL SPECIFICATIONS

| | |
|-------------------------------------|--------------------|
| Outer Diameter Nominal | 14.8mm (0.583in) |
| Minimum Bending Radius | 185mm (7.283in) |
| Minimum Bending Radius | 370mm (14.567in) |
| Recommended / Maximum Clamp Spacing | 0.6 / 1 (2 / 3.25) |
| Tensile Strength (Operating) | 600 N |
| Tensile Strength (Installation) | 1500 N |
| Crush Resistance (Operating) | 300 N/100mm |
| Crush Resistance (Installation) | 1000 N/100mm |

DC POWER CABLE SPECIFICATIONS

| | |
|------------------------------|-------------------------------|
| Number of DC Pairs | 1 |
| Cross Section of Power Cable | 2.08 mm ² (14 AWG) |

ARMOR SPECIFICATIONS

| | |
|------------|---------------|
| Armor Type | Aluminum Foil |
|------------|---------------|

F/O CABLE SPECIFICATIONS

| | |
|----------------------------------|--------------------------|
| F/O Cable Type | Tight-Buffer, Singlemode |
| Number of F/O Pairs | 2 |
| Core/Clad | 9 /125 |
| Secondary Protection Nominal | 900µm (0.035in) |
| F/O Standards (Meets or Exceeds) | ITU G 657.A2 |




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TESTING AND ENVIRONMENTAL

| | |
|--------------------------|-------------------------------|
| Storage Temperature | -20°C to 80°C (-4°F to 176°F) |
| Operation Temperature | -20°C to 80°C (-4°F to 176°F) |
| Installation Temperature | -20°C to 50°C (-4°F to 122°F) |

Related Documents



Power and Fiber: Our Unique Advantages

Value Propositions