SAMSUNG’s Unique Solution for Cell Sites

Solution: Hybrid Fan-out Cable

- Cable contains both optical fiber and power cable which reduces installation time and real estate required
  - 1 Cable covers 4 Radio Units (Outer Diameter < 15/8 in)
  - FO and power combined connector

VOC @ Customer

- **Reduce installation cost**
  - Easy and quick installation

- **Utilizes optical fiber for High Traffic and to Reduce opex associated with Real Estate**
  - combine 2 cables into one
  - Optical Fiber + Power Cable
  - Small cross-sectional area
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Solution: Hybrid Fan-out Cable

- 1 Hybrid Connector
  - Fiber Optic
  - Power

Distribution Port
- Split to 4 RRU Connection Cable
- 1 HFC* -> 4 RRU Connections
- Water/Dust Proof (Comply IP-67)

*HFC: Hybrid Fan-out Cable
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Solution: Hybrid Fan-out Cable

- **d(DU):** Distance from DU to A
- **d(Cable):** Distance from A to Distribution Port
- **d(Main Cable):** 100~400 ft
- **d(RRU):** 8~16.4 ft
- **d(RRU):** Distance from Distribution Port to RRU

Power Connections
- Fiber Optic Connections
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Solution: Hybrid Fan-out Cable

HFC (Hybrid Fanout Cable)

Characteristics

- Tangle Prevention
- Simple Structure
- Multi junction up to 4

Samsung HFC Solution