

# **RUFIS**

# PnP Aggregation Box

The RUFIS (Remote Radio Head Units Field Installation System) delivers the most advanced cabling and aggregation infrastructure for cellular communications towers and facilities to connect power and fiber from the equipment room/cabin to the Remote Radio Heads.

The RUFIS Aggregation Box enables the use of two riser cables (1 multifiber and 1 copper) to connect up to 6 RRH and reduces the Total Cost of Ownership (TCO) by:

- a Aggregation of cables and singlehanded operation of PnP connectors (save on installation time and reduce the skills required during installation and maintenance)
- b Easy site upgrades (e.g. from 3 to 6 RRHs) without pulling new riser cables
- c Superior RUFIS Lightning Surge Protection Device embedded in the unit significantly increases the overall site reliability.

Multiple product versions and customizations are available to exactly match user requirements (e.g. number and types of inputs/ outputs, use of hybrid cable, different levels of Surge Protection, etc.)

## **Features**

- Dimensions-external (excluding connectors): 300 x 400 x 180 mm
- Material (EN 10130): Polycarbonate with EPDM gasket or mild steel
- Weight (fiber and power aggregation box): 9 kg (steel version) - 6 kg (polycarbonate version)
- Ingress protection (EN 60529): IP 55
- Operating range : -40° C to +65°C
- Impact resistance (EN 62262): IK 08UV (Polycarbonate version)
- UV resistance: UL 508 (Polycarbonate version)
- Flammability Rating (UL 746 C 5): UL 94 5V (Polycarbonate version)
- Wind Load: 0.23 KN (at 55 m/s)

# Fiber optics connectivity

### Inputs

1 x FULLAXS bulkhead receptacle equipped with an outdoor rated MPO connector for up to 12 single mode or multi mode fibers

Outputs (based on 4 output version)
3 x 2 LC ODVA bulkhead receptacles
1 x FULLAXS bulkhead receptacle equipped with an outdoor rated MPO connector for 6 single mode or multi mode fibers - available for future site upgrades

**Optical characteristics** (input-output)
Optical loss: SM-typical 0.45 dB

MM-typical 0.6 dB

# **Power connectivity**

(based on 4 output version)

### Inputs

1 x TE HTS Series B surface mounted housing (dual copper cable size 10 to 25 mm2, max current Rating: 63 A)

### Outputs

3 x TE CPC series 3 - Shell size 17 bulkhead receptacles (dual copper cable range 2 to 6 mm2, max. current rating 25 A)

1 x TE HTS Series B surface mounted housing (dual copper cable range 10 to 25 mm2, max. current Rating: 63 A) – to be used for future sites upgrades

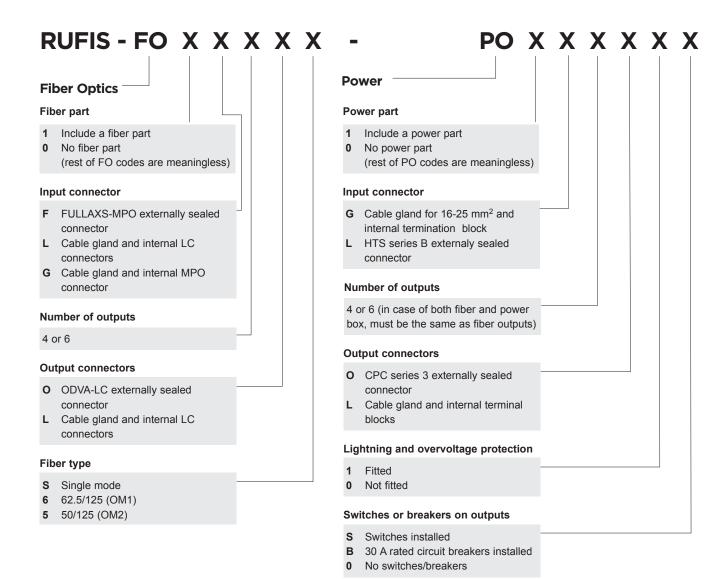
# **Embedded fuseless Surge Protection Device component**

### Electrical characteristics

Nominal Operating Voltage 48 volt DC Maximum Discharge Current: 5 kA 10/350 µsec, 60kA 8/20 µsec

Maximum Operating Voltage: 75 volt DC Nominal Voltage Protection Level: 400 volt Compliant to: IEEE C62.41, IEC 61643-12, EN 61643-11





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