Madison Director.

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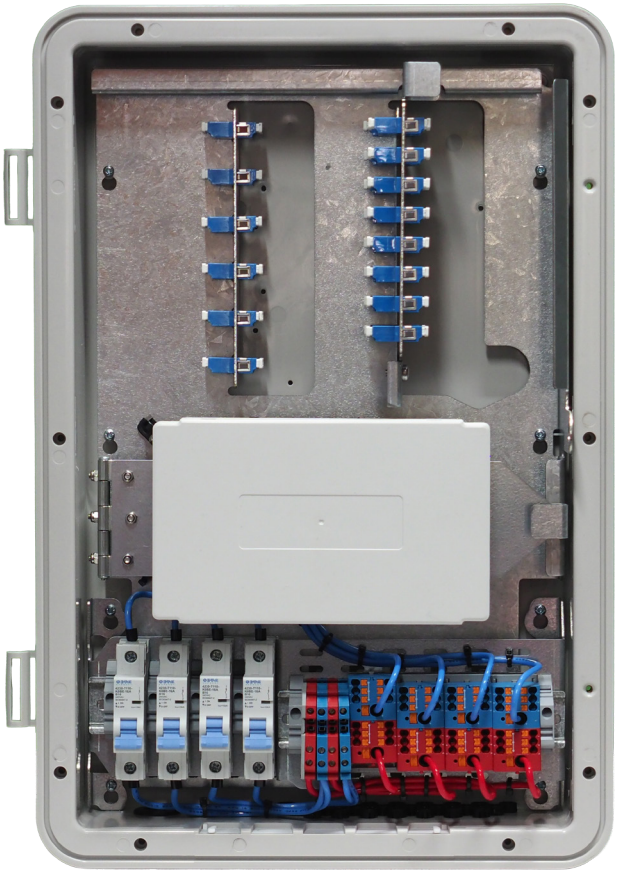
DATA SHEET

Product: MC-7000 Director

Description: Horizontal Cabling Distributor for Low Power Active DAS

Configured for Ericsson Radio DOT System or Mavenir Crossfire N3RU System



Director (unwired, as supplied)

Director Features:

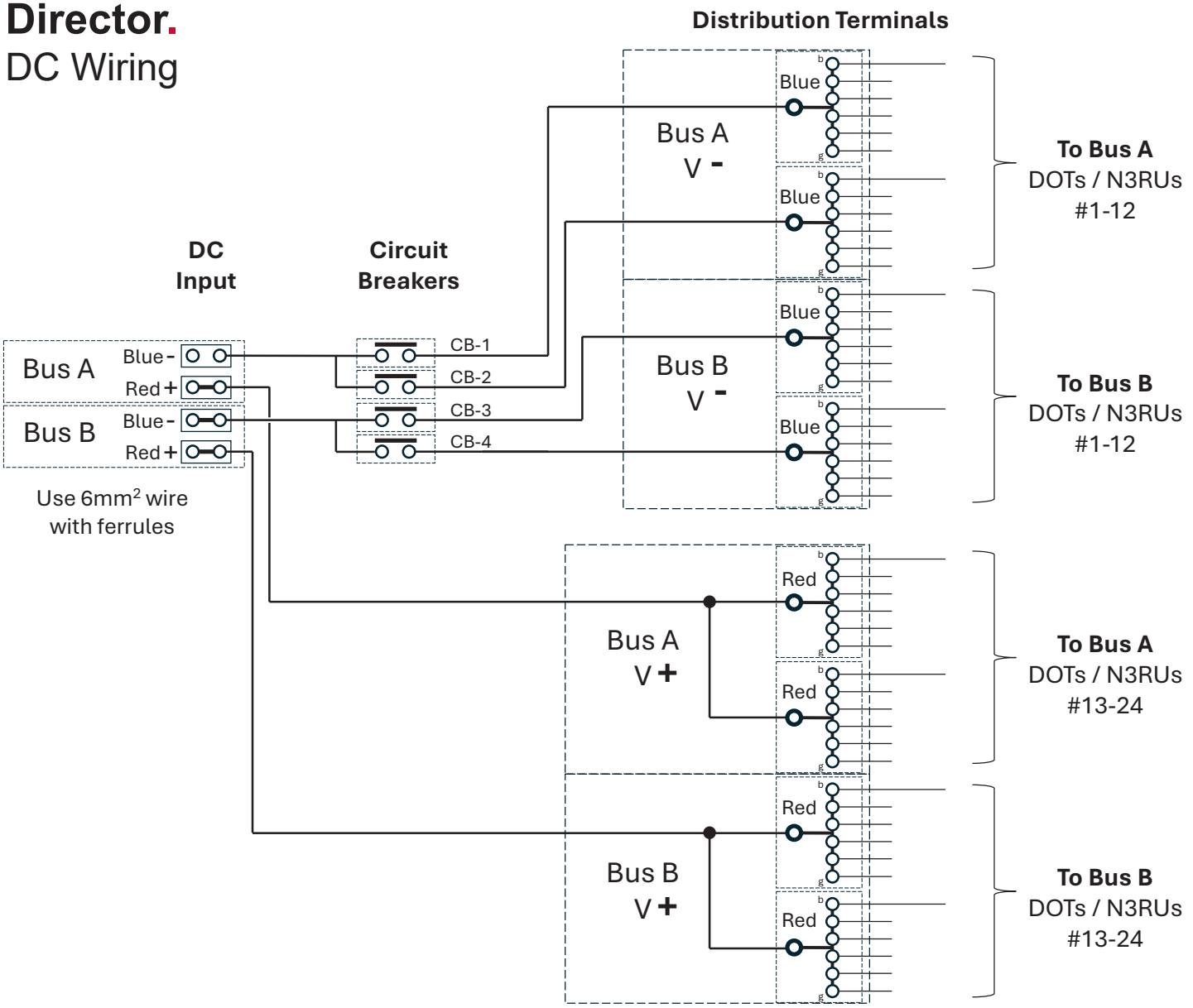
- A single riser enclosure providing the star wiring hub for both fibre and copper horizontal cabling.
  - Managed power cabling incorporating high-capacity DC input terminals, industry-standard ETA circuit breakers and Phoenix DC distribution blocks.
  - Comprehensive optical fibre termination and patching functionality for cross-connecting any riser fibre to any horizontal fibre.
- Designed for pre-terminated riser fibre cable as well as having provision for splicing the riser fibre to pigtails on site (with 48-fibre slice trays included)
- Designed for pre-terminated horizontal hybrid copper and fibre cabling.
- Custom RECORD CARD to document all fibre patching.
- Small footprint – suitable for limited space in risers.
- Flush or recess mount.
- Removable door for work access.
- Secure and lockable.
- Lightweight, strong PVC construction.

Director Includes:

- Enclosure
- DC Connector Panel
  - Buss A and Buss B Input Connectors (48VDC, Floating)
  - 4 x 16A Circuit Breakers
  - 8 x 6-way DC Distribution Connectors (for 24 x connections)
- Fibre Connector Panel
  - 24-port Riser Patch Bay
  - 48-port Distribution Bay
- General
  - 2 x 24-fibre splice cassettes (empty)
  - Fibre Record Card (in door sleeve)

Director Specifications	
Dimensions(mm)	352W x 522H x 133D
Mounting	Flush or Surface
Cutout for Flush	302W x 380H
Cavity for Flush	Flush requires 73mm wall cavity depth
Material	PVC
Location	Indoor
Door	Removable
Security	Tang for Padlock
Colour	Light Grey
Cable Access	Top: Antenna and LAN Cables Bottom: Power cable

Director.
DC Wiring



Notes

Power Supply
Vertiv R48-2000C2-4
2 x 1kW Outputs (Bus A & Bus B)

Busses
Bus A and Bus B are independent.
The chassis is floating. It may be earthed to the building earth, but it does NOT connect to Bus A or Bus B.
The separate busses are for load sharing purposes, not for redundancy. Load is intended to be shared across the 2 x 1kW outputs.

Caution: Ensure each DOT or N3RU has the Negative (blue) wire and the Positive (red) wire connected to the SAME bus. DO NOT have the negative on one bus and the positive on the other.

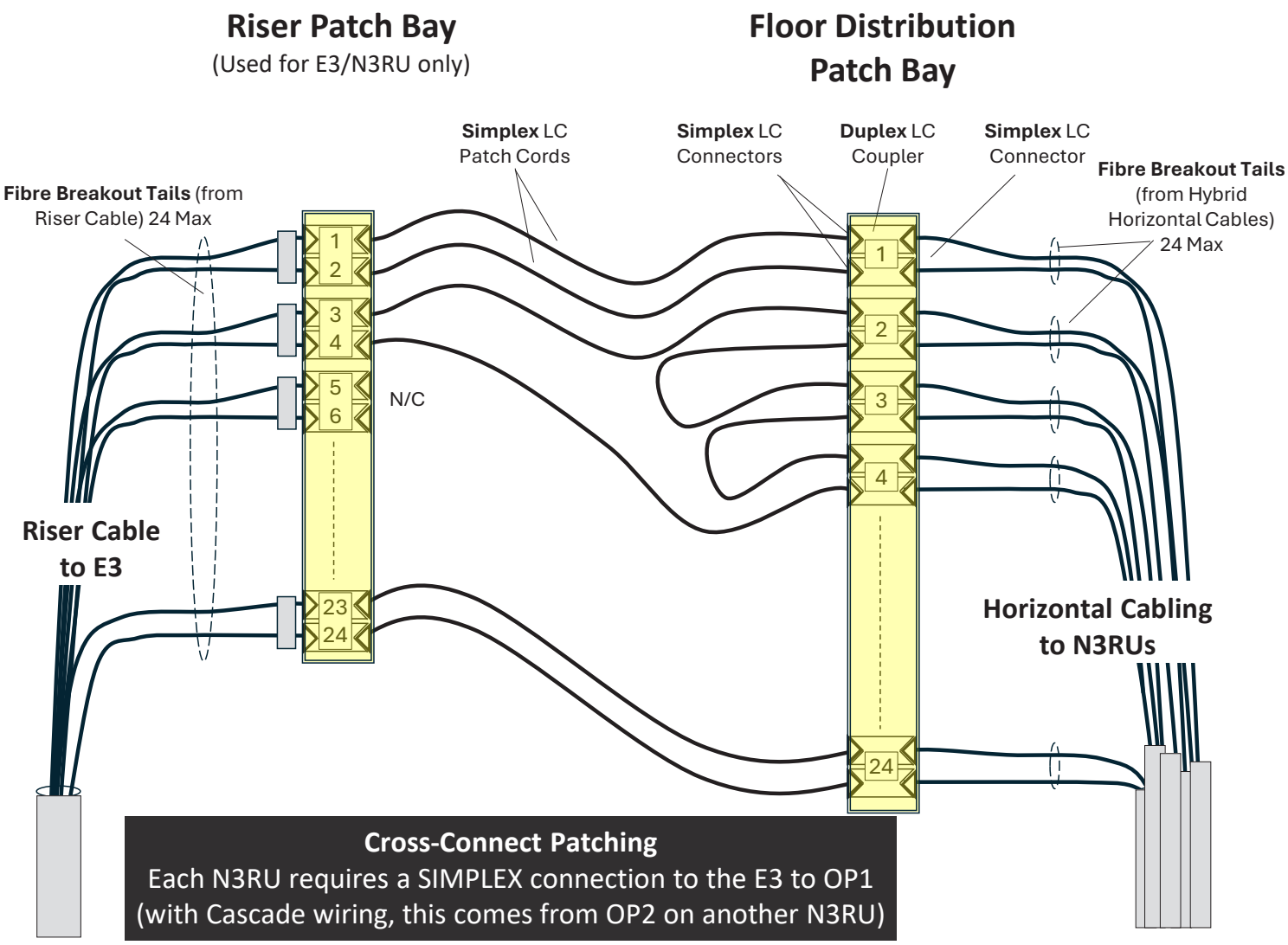
Ratings
- Input Terminals are rated at 500V / 32A
- CBs are ETU 16A 240VAC, (10kA)
- Internal wiring is 6mm² with crimp ferrules
- Distribution Terminals are rated at 450V / 57A
- Distribution Terminals accept 1.5mm² and 2.5mm² cables with ferrules

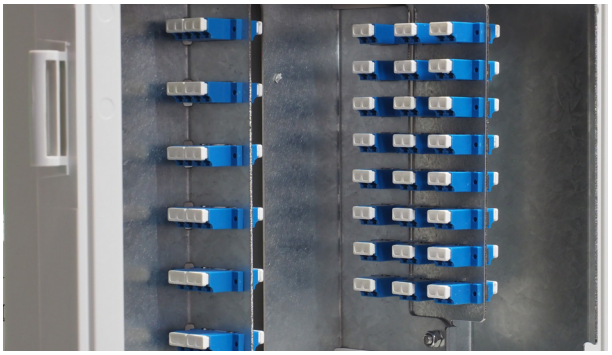
Load Sharing
The Ericsson Radio Dot (multi-carrier) has a maximum power consumption of about 57 W in worst-case configurations (e.g., full multi-band load, 4x4 MIMO, maximum traffic utilization)

The Mavenir N3RU has a maximum power consumption of approximately 60 W in worst-case configurations (e.g., full 8-channel load, 4x4 MIMO, high traffic utilization).

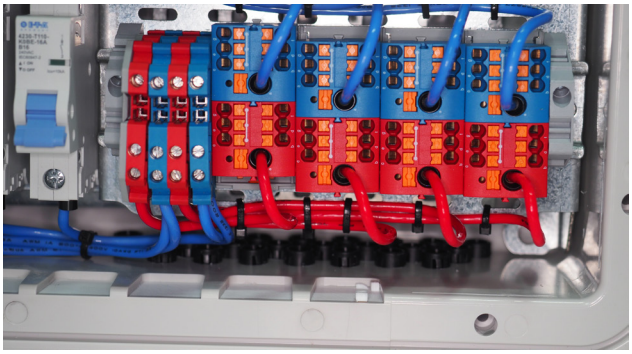
It is therefore possible to power up to 16 DOTs or N3RUs from each bus. HOWEVER, a **maximum of 12 DOTs or N3RUs on each bus** is recommended to keep the PSU well within rated capacity.

E3 / N3RU Interconnect





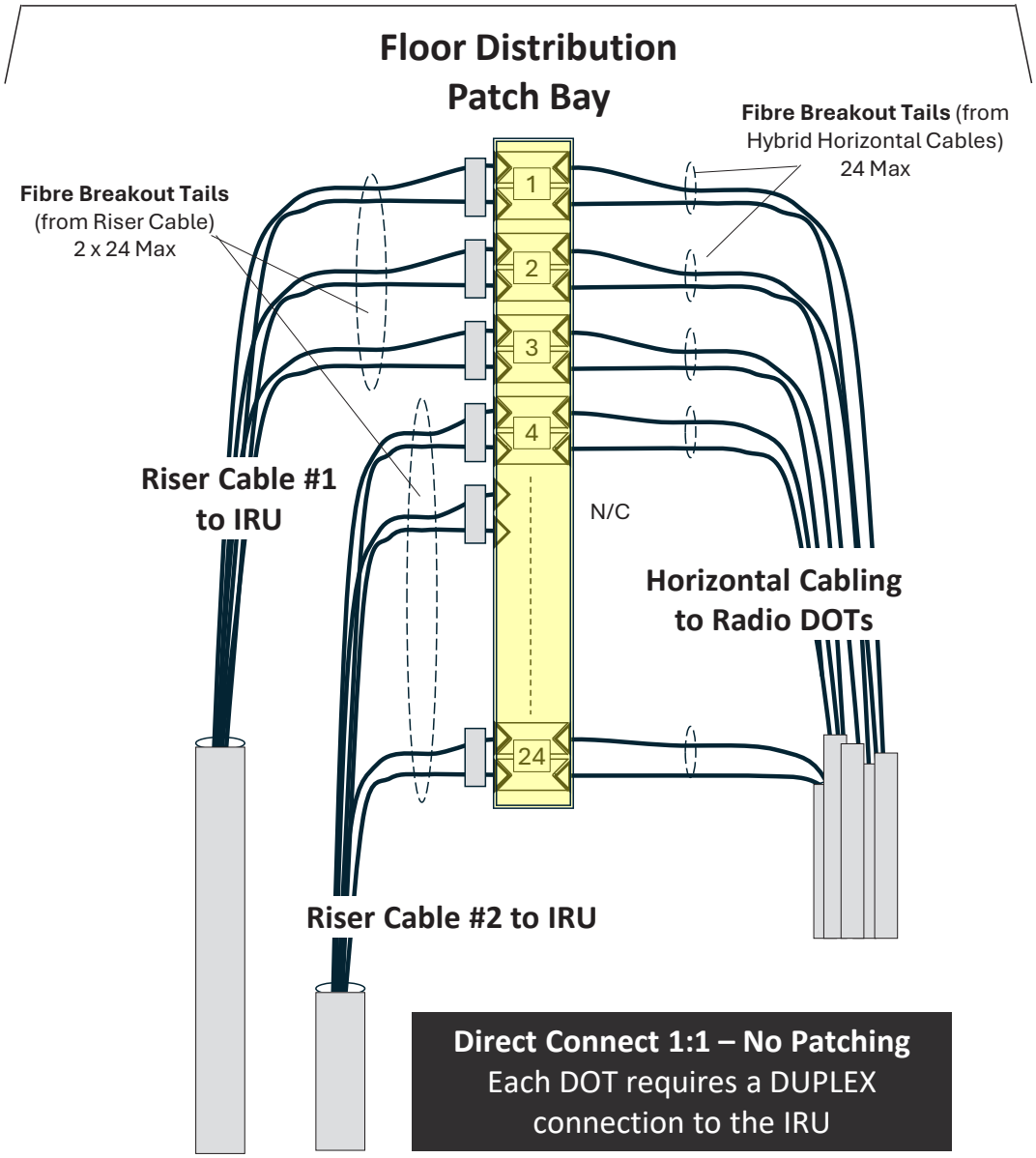
Fibre Patch Bays



Power Terminals

- Note: riser Patch Bay is not required for the Radio DOT system
- Pre-term rise cable is standard. 2 x 24-fibre slice cassettes are also included to allow riser cable to be sliced on site.

IRU / Radio DOT Interconnect



- Madison Connectivity reserves the right to make changes to the products described in this specification without prior notice
- All values subject to factory tolerances

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