

Diamond Optics Hybrid Jumper Cable Assembly

Model: 125/0200-XX.X denotes single Full AXs

125/0201-XX.X denotes Dual Full AXs

125/0202-XX.X denotes Dual Full AXs Dual Power Feed

Note: XX.X denote Length in meters

FEATURES



- **Easy Installation Connectivity**
 - Modular 'plug and play' hybrid system
 - 2, 4 or 8 fibre optic in high performance MT elite ferrule.
 - Hi-power Amphenol electrical contacts up to 40 Amps @ -48V
 - Designed to meet Australian conditions
 - Locating connector marks
 - Very flexible structure allowing for good Bend radius control.
- **Light & Durable Material**
 - Bird-proofed with Nylon 66 convoluted steel reinforced tube.
 - IP68 rated
 - All options available in length and capacity (Dual outlet)
- **Customized product**
 - Options are available upon customer's requirement

APPLICATIONS

The Diamond Optics hybrid jumper is applied on mobile masts servicing the Remote Radio Unit (RRU) from the Junction Box with power and optical connectivity. It provides fibre connectivity through the CIPRI optical physical connection and -48V power integrated through the incoming and outgoing power connectors.

Input connectors consist of Anderson Blue and Red power connectors in addition to the optical fibre connector with either 2,4 or 8 cores of fibre-optic connectivity through a MT elite high-performance ferrule. All connector interfaces are compliant to Telstra requirements allowing for backwards compatibility with other manufacturers products including box and connectivity options. With this application the RRU interface is from Ericssons.

All connections are of high reliability and repeatability. Once mated within the Hybrid box the connector system IP rating meets and exceeds IP 67 ratings and ensures long-term performance in tough outdoor Australian conditions.

Diamond Optics hybrid jumpers are available in various lengths and configurations to cater for the various RRUs used by telecommunication carriers. Application notes are provided with this product.

Other Related Products

- Hybrid Junction Box
- Main cable assemblies 20-100m at 10m increments as standard or specific lengths as requested.
- Base station connectivity solutions, High density 1RU LGX style sub-rack with MT elite to LC cassettes fibre storage trays/wall boxes and Grade A fibre optic patchcords.

SPECIFICATIONS

Construction	Single	Double	Triple	Quad
Length (m)	2.5, 5.0, 7.5 and custom			
Weight (kg)	1.5	2.5	3.2	4
Material (bird-proofing)	Nylon 66 steel reinforced convoluted tube			
Color	Black			
Max. Feeder Connector DC Power (Amp)	40			
Feeder Connector Optics	MT elite Angled SM (I.L. Typ. 0.1dB, Max 0.35dB) (R.L. >60dB)			
Connectivity configuration	<i>1 x MT elite to x1 LC Full Axs duplex (Telstra Grade A) X 1 power</i>	<i>1 x MT elite to x2 LC duplex Full Axs (Telstra Grade A) X 1 power</i>	<i>1 x MT elite to x 2 LC duplex Full Axs (Telstra Grade A) X 2 power</i>	<i>1 x MT elite to x 4 LC duplex (Telstra Grade A) X 1 power</i>
Power Contact Performance	40A temperature rise <10°C at full power			
Environmental Performance	IP68			
Operating Temperature	-40 to +75°C			

