



## PRODUCT DETAILS

The Hybrid Cable assembly is used on mobile tower or rooftop deployments to reticulate power and communication services through singlemode fibre optic cable to the junction box. It provides fibre connectivity through the CIPRI optical physical connection and -48V power integrated through the incoming and outgoing connectors. Up to 110m can be achieved with a nominal voltage drop of 4V for this cable design.

The connectivity interface to the junction box consists of two 12F MTPe connectors and two Molex connectors consisting of two pairs of power connections per Molex connector. The remote end of the cable (base station) is terminated with two 12F MTPe connectors whilst the power cables are left unterminated. These are terminated on the power box within the base station once the correct lengths have been determined. This cable ensures correct inlet through the edge gland to the Telstra nominated distribution box.

Cable drums are available in various lengths to cater for the various tower or roof top applications. Lengths between 20m to 100m in increments of 10m are available as standard lengths whilst variable lengths can also be ordered to customised drums. Application notes are provided with this product.

# Product Data Sheet

## Diamond Optics - Hybrid Cable Drum Assembly

### FEATURES

#### Easy Installation Connectivity

- 24 optical fibres in high performance 2x12 MTPe connectivity
- Hi-power electrical contacts up to 40 Amps @ -48V
- Designed to meet Australian conditions
- 10.5mm<sup>2</sup> annealed power conductors
- Includes two earthing kits, machined aluminum edge gland and pulling sock

#### Light & Durable Material

- Bird-proofed OD 28mm.PE with Al corrugated inner
- IP68 rated
- All options available in length and capacity.

#### Customized product

- Options are available upon customer`s requirement

### SPECIFICATION

Construction	10.5 mm <sup>2</sup>	
Length (m)	Up to 110m	
Weight	1.15Kg/m	
Material	Various, HD PE outer with corrugated AL	
Outer Diameter	28mm	
Resistance Ohm/Km @ 20°C	1.85	
Max run @16A and 4V drop	130m	
Max run @12A and 4V drop	170m	
Color	Black	
Feeder Connector - Power	DC Range 40 Amp	
Feeder Connector - Optics	MTP 2X12 way ferrule PC performance (<0.5db IL >55dB RL)	
IL at 1310 and 1550nm RL at 1310 and 1550nm	0.5max	2X12 way MTPe with 2X 2 power pairs
	Better than 55dB	<0.5db IL      >55dB RL
Power contact Performance	40Amps Temp rise <10°C at full power	
Ingress Protection	IP 68	
Temperature Operating	-40° to +65° C	

### CABLE LENGTHS

Cable lengths from 20m with increments of 10m available as standard however other lengths can be produced to customers specific requirements.

### RELATED PRODUCTS

- RRU Boxes.
- Jumper cable assemblies 1.5m, 2.5m, 3.5m, 5.0m, 7.5m, as standard or specific lengths as required.
- Base station connectivity solutions, 1RU LGX style subrack with MTPe to LC cassettes and fibre storage trays.