

Prolix NGF 2455-1217BC Circular Polarized Bidirectional FlatPanel Haulage Tunnel Antenna

The Prolix NGF 2455-1217BC is a circular polarized, bidirectional Flat Panel antenna specifically designed to seamlessly integrate with Rajant Hawk Fe1-2450, Sparrow 2450 CS, and ES1 2450 CS models. It offers both right-hand and left-hand circular signals to ensure reliable communication in both directions.

Engineered for optimal performance in underground haulage tunnels, this antenna maximizes coverage and signal penetration. Its circular polarization enhances signal reliability, making it ideal for demanding underground environments.





Specifications Prolix NGF 2455-1217BC

Model	Prolix NGF 2455-1217BC	
Suitable for	Rajant Hawk FE1 2450 / Sparrow ME5 2450CS / ES1 2450CS	
Frequency	2.3 – 2.5 GHz band	5.15 – 5.85 GHz band
Gain per unit radiator	12.7 dBi	17 dBi
Feed network and split loss	3.5 dB	3.8 dB
Effective gain (Bi-directional)	9.2 dBic nom	13.2 dBic nom
Polarisation	Circular (RH & LH)	
Patterns		
Azimuth 3 dB Beamwidth	34 +/-2 degrees	16 +/- 2 degrees
Elevation 3 dB beamwidth	32 +/- 1 degrees	18 +/- 1 degrees
Input impedance	50 Ohms	
VSWR	Maximum 2:1	
Maximum Input Power	20 Watts	
RF interface	N (Female) Connector x 4	
Antenna Construction	Antenna: ABS Radome with Stainless steel (304) backplate and brackets	
Colour	Light grey	
Bracket	Az/El Swivel - Stainless steel (304).	
Dimensions (Ex Bracket)	470 x 270 x 115 mm (WxHxT)	
Antenna Weight (Inc. bracket)	3.8 kg	