

FMCPY2-716-RS1

Circular Polarised FM Panel with Rear Screen FM Radio 87.5-108MHz

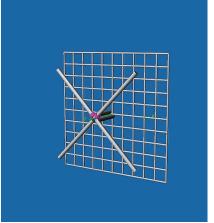


The FMCPY2-716-RS1 is a circular polarised FM panel antenna featuring two crossed stainless steel dipoles mounted in front of a galvanised steel rear screen. This design delivers reliable circular polarisation, reduced back lobes, and long service life.

Optimised for triangular, three-sided towers or masts, the FMCPY2-716-RS1 can be configured as part of an omnidirectional or directional array to suit your service area. Arrays are fed via a corporate feed system with power dividers and branch feeders, and each panel is rated to 4 kW input power, with higher power options available.

ZCG's Technical Services team can assist with array design to meet your specific coverage and power requirements.





Power divider and 90° out of phase branch feeders - order sepa-

U-bolts or bolts - order separate to suit requirements

rate to suit your requirements

2 Years

Mounting hardware

Installation hardware

requirements

Warranty



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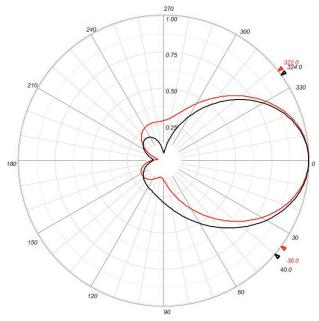
Mechanical Data

Height of array	Subject to configuration/frequency		
Total net weight	Refer to table		
Wind Load	Refer to table		
Mounting hardware	U-bolts or bolts per bay - Order separate as required 2 x 90 phased branch feeders - order separate 1 x 2-way power divider/splitter - order separate Feeder cable and extra power dividers - order as required		

Technical Data

Configuration	Gain - dBd	Weight - kg	Antenna height L - m	Wind load - kN
1 antenna	3.0	77	2.2 x 2.2	1.65
2 bay	6.0	145	2.2 x 5.0	3.3
4 bay	9.0	280	2.2 x 11.5	6.7
6 bay	10.8	420	2.2 x 17.5	10.0

⁻ Configuration: Refers to the vertical arrangement of one or more antennas. A single antenna provides directional coverage in one sector. To achieve an omni-directional pattern, antennas must be mounted on each face of a tower or mast.



Example radiation pattern - single bay

 $[\]hbox{- Gain: refers to total antenna gain, not per plane, losses of power through cable or power dividers not included}\\$

⁻ Weight: does include mounting hardware supplied, does not include extra mounting hardware, power dividers or mount poles

⁻ Wind load: V = 160 km/h



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Suitable coaxial feeder cable and connectors



1/2" super flexible helical shielded, foam dielectric coaxial cable

P/N ZCG1250SF

Available in per metre, or 500m rolls or alternatively request a custom cable assembly



1/2" corrugated shielded, foam dielectric coaxial cable

P/N ZCG1250

Available in per metre, or 500m rolls or alternatively request a custom cable assembly



7/8" corrugated shielding, foam dielectric coaxial cable

P/N ZCG7850

Available in per metre, or 500m rolls or alternatively request a custom cable assembly



Low PIM 7/16" DIN male clampstyle connector for 1/2" helical shielded foam dielectric coaxial cable

P/N 716DINM1250SF

Tri-metal plated



Low PIM 7/16" DIN male clamp-style connector for 1/2" corrugated foam dielectric coaxial cable

P/N 716DINM1250

Tri-metal plated



Low PIM 7/16" DIN male clamp-style connector for 7/8" corrugated foam dielectric coaxial cable

P/N 716DINM7850

Tri-metal plated