



CP5800-15

End fire right-hand circular helical directional antenna

ISM & WiFi/WLAN 5.7-5.8 GHz



The CP5800-15 is a directional right-hand circular polarised, end fired helical antenna. A helically wound right-hand circular polarised antenna will reduce unwanted signal interference and reflections. The 'End Fired' design is particularly well suited for point-to-point WiFi/WLAN or data transfer.

Mounting hardware, coaxial feeder cable, adaptors and other installation accessories are all available separately.



| | |
|-----------------------------|--|
| Construction | White fibreglass radome, aluminium mount plate and external cable assembly |
| Frequency range | 5.7-5.85 GHz - ISM & WiFi/WLAN compatible |
| Bandwidth | Full frequency range stated - 150 MHz |
| VSWR | <1.5:1 |
| Tuning | Factory |
| Gain | 14 dBi |
| Polarisation | Right-hand circular |
| Circularity | <2 dB |
| Impedance - nominal | 50 Ohms |
| Maximum power | 100 Watts |
| H Plane | 18° |
| E Plane | 20° |
| Front-to-back ratio | 20 dB |
| DC grounding | Yes |
| Cable | 200mm RG142 - rear exits from base of plate |
| Connector | N-type female fitted as standard - or specify requirements |
| Length | 180mm |
| Weight | 500grams |
| Projected area | 0.008m ² |
| Wind load at 160kph | 0.909kg, 0.009kN |
| Mounting hardware | 1 x 50mm diameter U-bolts and V-blocks - supplied |
| Installation tools required | 13mm or 1/2" spanner for U-bolt securing |



N-type female fitted as standard or specify requirements

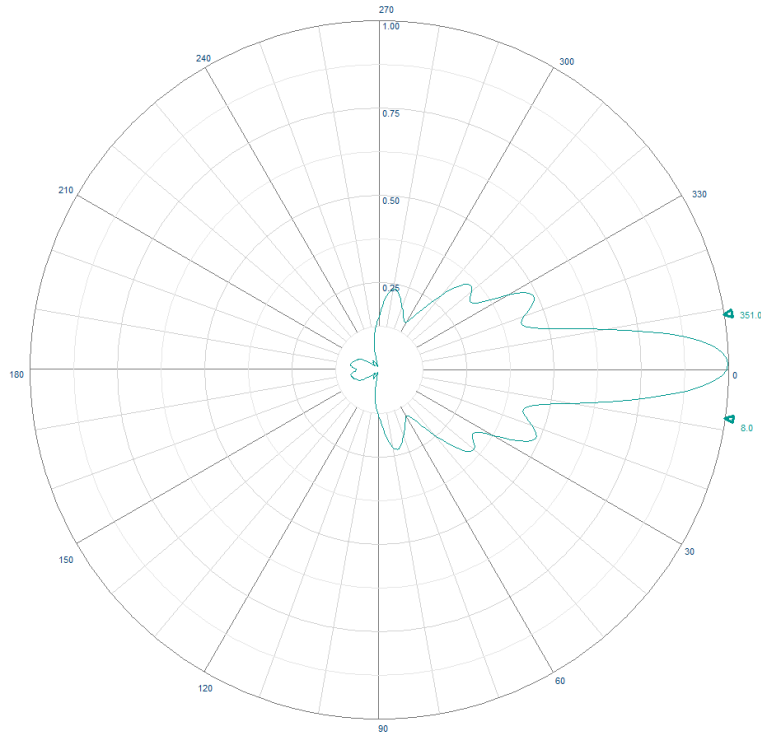




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Example radiation pattern






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Suitable mounting hardware

| | |
|---|--|
|  <p>CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.</p> <p>Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS</p> |  <p>A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p> |
|  <p>SFB Series - galvanised steel pole extension 0.9-2.0 metres Roof or overhang mounting</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p> | |

Suitable feeder coaxial cable and connectors

| | |
|--|---|
|  <p>RU600 Solid copper conductor, low loss coaxial cable LMR-600™ equivalent (* times microwave)</p> <p>P/N 7890-3</p> <p>Available in 500m roll or alternatively request a custom cable assembly</p> |  <p>N-type male crimp connector for RU600 low loss, solid conductor</p> <p>P/N 8226-2</p> <p>Tri-metal plated</p> |
|  <p>1/2" corrugated shielding, foam dielectric coaxial cable P/N ZCG1250</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p> |  <p>N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable</p> <p>P/N NM1250</p> <p>Tri-metal plated</p> |