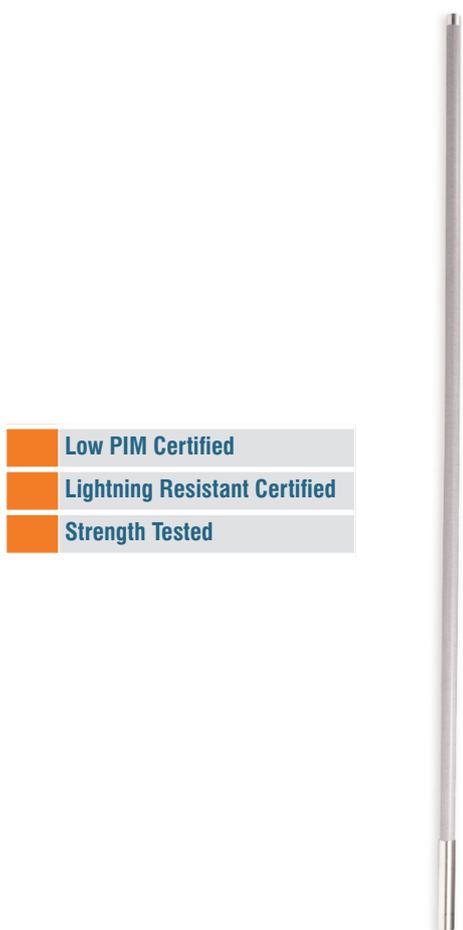


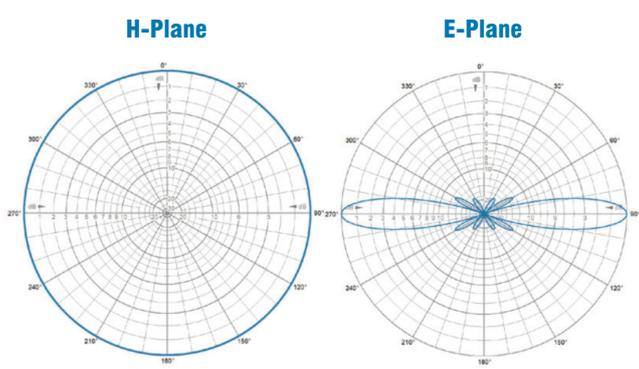
The 4220 Series colinear antenna is designed for demanding applications where a durable and high performance colinear antenna is required. The centre fed dipole design and feed network gives a stable radiation pattern across a wide bandwidth, and allows tilted beam designs to be effectively employed without large pattern distortions. High quality materials and manufacturing techniques are employed to ensure that the antenna has excellent intermodulation performance & wide bandwidth characteristics for TETRA and other multi-channel communication systems. The antenna has been designed to withstand lightning strike and has a conductor through it's centre to allow a finial to be fitted to it's top cap, and is supplied as standard with a 7/16 female connector.



- Low PIM Certified**
- Lightning Resistant Certified**
- Strength Tested**

Frequency range	4220.06-355-Txx	340 - 370 MHz
	4220.06-405-Txx	380 - 430 MHz
	4220.06-445-Txx	420 - 470 MHz
Input impedance	50Ω	
VSWR	< 1.5:1	
H Plane ripple	< ±0.5 dB	
Maximum input power	300 W CW	
Polarisation	Vertical	
Forward gain	6 dBd (8.15dBi)	
3 dB Beamwidth	E Plane 16°	
Available beamtilts	0 , 6 ,8 and 12°	
Intermodulation	-153dBc (3rd order), 2 x Tx@43dBm	
Lightning protection	To withstand 2.5 x 10 ⁶ A ² pulse	
	All metallic parts DC grounded	
Connection	Fixed 7/16 DIN socket in base	
Dipoles	38mm dia. brass tube	
Dipole feeds	PTFE dielectric coaxial cable	
Shroud	GRP tube (grey, RAL7035) 53mm dia.	
Mounting section	Aluminium alloy tube 63.5mm dia. Alocrom 1000	
Weight	8.1kg	
Overall Length	2.85m	
Maximum wind loading @ 45m/s	230N	
Survival wind speed	350km/h	

Free Space Radiation Patterns	Mounting Accessories	Ordering Codes
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Stock code	Beamtilt
4220.06-xxx-T0	0°
4220.06-xxx-T6	6°
4220.06-xxx-T8	8°
4220.06-xxx-T12	12°

Issue 2. E&OE This product is RoHS compliant