

## 4-stack dipole array TETRA 380 - 430 MHz

### DESCRIPTION

- The 4104.04 Antenna is a version of the S.M4 four-stack dipole array, designed for improved performance in multi-channel communication systems such as TETRA.
- High quality materials and manufacturing techniques are employed throughout to ensure that the antenna meets strict intermodulation requirements of multichannel systems.
- The antenna is supplied as standard with a 5 metre tail terminated with a 7/16 socket.
- This model has a stronger boom to cope with high wind speeds.
- Former Skymasts brand product.



### SPECIFICATIONS

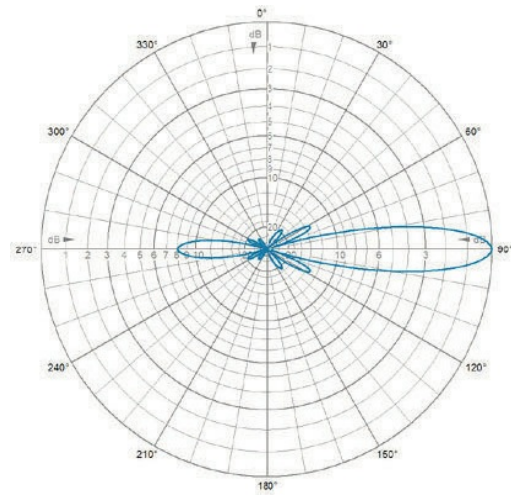
Electrical	
Model	414.04-405-Txx
Frequency	380 - 430 MHz
Max. Input Power	500 W
Polarisation	Vertical
Peak Instantaneous Power (PIP)	25 kW
3 dB Beamwidth, E-Plane	21° ±1°
3 dB Beamwidth, H-Plane	160° ±3°
Impedance	50 Ω
Gain	8.7 dBd (10.9 dBi)
VSWR	< 1.5:1
Front-To-Back Ratio	> 7 dB
Passive Intermodulation	-143 dBc (3rd Order, 2 x Tx @ 43 dBm)
Lightning Protection	Lightning current handling capability : 200 kA According to EN 62305-1 (Test pulse 10/350 μs)
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
Mechanical	
Connection(s)	7/16(f) on 5m RG214/U cable
Materials	Antenna elements : Aluminium 6063T6 (12.7 mm dia.) Antenna boom : Aluminium 6082T6 (38.1 mm dia.) Fasteners : Stainless steel A2
Length	Approx. 2600 mm / 102.36 in.
Wind Load	232 N (160 km/h)
Weight	Approx. 6 kg / 13.23 lb.
Mounting Bracket	2140.01.00.00 (up to 60 mm dia.) 2141.01.00.00 (up to 120 mm dia.) (Ordered Separately)  0300284/00 + U-bolts to match mounting pipe diameter (Ordered Separately)  ETC-250 (50 to 76 mm dia.) (Ordered Separately)
Environmental	
Survival Wind Speed	300 km/h
Ingress Protection	IP68

ORDERING

Model	Product No.	Description	Frequency
4-stack dipole array TETRA	414.04-405-T0	0° Electrical Tilt	380 - 430 MHz
4-stack dipole array TETRA	414.04-405-T10	10° Electrical Tilt	380 - 430 MHz
4-stack dipole array TETRA	414.04-405-T15	15° Electrical Tilt	380 - 430 MHz
4-stack dipole array TETRA	414.04-405-T5	5° Electrical Tilt	380 - 430 MHz

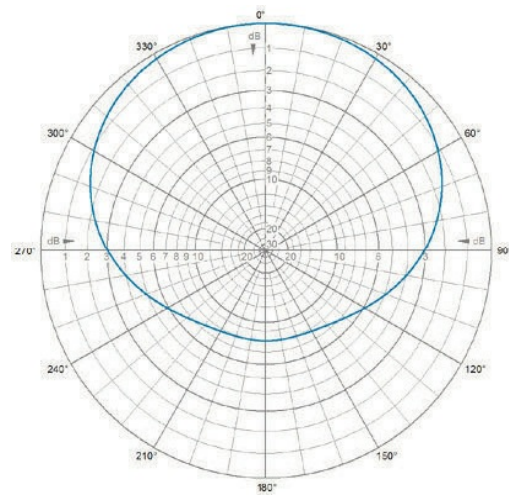
Accessories			
Cast aluminium cross clamp, square	0300284/00		
M8 x 50 mm (2") U-Bolts (1 Pair)	4884036/00		
M8 x 75 mm (3") U-Bolts (1 Pair)	4884076/00		
M8 x 100 mm (4") U-Bolts (1 Pair)	4884035/00		
M10 x 125 mm (5") U-Bolts (1 Pair)	4884057/00		
Galvanised steel parallel bracket	2140.01.00.00	25 - 60 mm (PAIR)	
Galvanised steel parallel bracket	2141.01.00.00	38 - 120 mm (PAIR)	
Extruded Parallel Tube Clamp	ETC-250	50 - 76 mm	

RADIATION PATTERN



E-Plane | 405 MHz

RADIATION PATTERN



H-Plane | 405 MHz