

## 4-stack dipole array, 145 - 175 MHz, split boom

### DESCRIPTION

- The S.M4 is an array of phased centre fed folded dipoles mounted on an aluminium mast for PMR / Trunked radio applications.
- Each folded dipole balun assembly and associated harness junction is completely encapsulated in polyurethane resin, totally preventing moisture ingress.
- At VHF the antenna disassembles and flat packs for ease of shipping.
- Former Skymasts brand product.



### SPECIFICATIONS

Electrical	
Model	S.M4-160-SB
Frequency	145 - 175 MHz
Max. Input Power	500 W
Polarisation	Vertical
3 dB Beamwidth, E-Plane	16 °
3 dB Beamwidth, H-Plane	180° (offset configuration), 360° (omni configuration)
Impedance	50 Ω
Gain	Omni 5.7 dBd Offset 8.7 dBd
VSWR	< 1.5:1
Front-To-Back Ratio	> 7 dB offset
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)

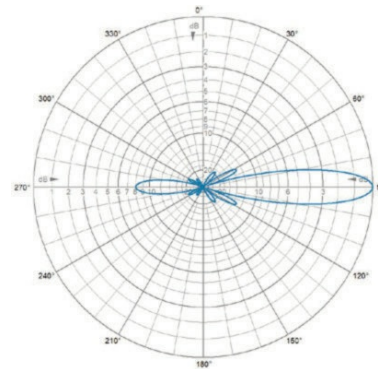
Mechanical	
Elements	12.7 x 1.6 mm dia. / 0.5 x 0.06 in. wall aluminium alloy grade 6063T6
Connection(s)	N(f) on RG213/U cable
Boom Material	63.5 x 6.3 mm dia. / 2.5 x 0.25 in. wall aluminium alloy grade 6082T6
Fasteners	Stainless steel grade A2-70
Length	6 m (supplied in two sections)
Element Clamps	Diecast Al / Zinc alloy
Wind Load	694 N (160 km/h)
Weight	Approx. 26 kg / 57.32 lb.
Balun Encapsulant	Polyurethane Resin U-600

Environmental	
Ingress Protection	IP68

### ORDERING

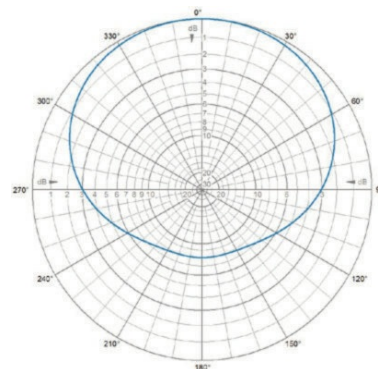
Model	Product No.	Frequency
4-stack dipole array, split boom	S.M4-160-SB	145 - 175 MHz

### RADIATION PATTERNS



E-Plane | 160 MHz

### RADIATION PATTERNS



H-Plane | 160 MHz

