

4-stack dipole array, 145-175 MHz, lightweight

DESCRIPTION

PRELIMINARY SPECIFICATION

- The S.M4E-160 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.
- The antenna disassembles to 4 x 1.5 metre sections and flat packs for ease of shipping



SPECIFICATIONS

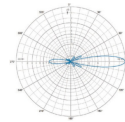
Electrical	
Frequency	145 - 175 MHz
Polarisation	Vertical
3 dB Beamwidth, E-Plane	16 °
3 dB Beamwidth, H-Plane	180° (offset configuration), 360° (omni configuration)
Impedance	50 Ω
Gain	Omni 5.7 dBd Offset 8.7 dBd
VSWR	< 1.5:1
Max. Input Power	500 W
Front-To-Back Ratio	> 7 dB offset
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
Mechanical	
Connection(s)	N(f) on RG213/U cable
Materials	Main Boom, 48 mm dia., aluminium elements, 12.7 mm dia., aluminium balun, fully potted enclosure
Dimensions	6000mm (h) x 590mm (w) (supplied in four sections)
Wind Load	660 N (160km/h)
Weight	16 kg / 35 lb
Mounting Bracket	ETC-250 (ø50 to ø76mm) (Ordered Separately) 0300120/00 (Ordered Separately)
Alternate Mounting Bracket	2141.01.00.00 (up to ø120mm) (Ordered Separately)
Environmental	
Ingress Protection	IP68

ORDERING

Type	Product No.	Frequency
4-stack dipole array, 145-175 MHz, split boom	Call for availability	145 - 175 MHz

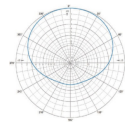
DIAGRAM

RADIATION PATTERNS



E-Plane | 160 MHz

RADIATION PATTERNS



H-Plane | 160 MHz

