



S.2Y SERIES

Directional antennas

- > The S.2Y series are of a rugged and reliable construction for communication networks at both UHF & VHF.
- > The one piece folded dipole incorporates a d.c. short to minimise static interference.
- > The balun assembly is completely encapsulated in epoxy resin, totally preventing moisture ingress, and has been tested to BS5490:IP67.
- > These antennas give a gain of 3 dBd with front to back ratio typ. 13 dB.
- > They are supplied as standard with 3 metres of RG 213 cable terminated with an 'N' type socket, although cable and connector options are available upon request.

ORDERING DESIGNATIONS

TYPE	FREQUENCY	PRODUCT NO.
S.2Y-72	67 - 76 MHz	123002020
S.2Y-82	77 - 86 MHz	123002021
S.2Y-155	145 - 165 MHz	123002022
S.2Y-165	156 - 175 MHz	123002023
S.2Y-405	376 - 424 MHz	123002024
S.2Y-410	385 - 435 MHz	123002025
S.2Y-445	420 - 470 MHz	123002026



SPECIFICATIONS

ELECTRICAL	
FREQUENCY RANGE	67 - 470 MHz
INPUT IMPEDANCE	50Ω
BANDWIDTH	± 6% of centre frequency
SWR	<1.5:1
FRONT TO BACK RATIO	13 dB
MAXIMUM INPUT POWER	150 Watts
POLARISATION	Vertical & horizontal
FORWARD GAIN	3 dBd
3 dB BEAMWIDTH	E Plane 72° H Plane 144°



S.2Y series
DIRECTIONAL ANTENNAS

MECHANICAL	
STANDARD CONNECTION	3 m (118.11 in.) Length of RG 213 c/w 'N' type socket
ELEMENTS UHF	UHF 12.7 mm dia. x 1.6 mm (0.50 in. dia x 0.06 in.) wall aluminium alloy grade 6063T6
ELEMENTS VHF	VHF 19.0 mm dia. x 1.6 mm (0.75 in. dia x 0.06 in.) wall aluminium alloy grade 6063T6
SUPPORT BOOM	31.7 mm dia. x 2.6 mm (1.25 in. dia x 0.10 in.) wall aluminium alloy grade 6082T6
FASTENERS	Stainless steel grade A2-70
SADDLE CLAMPS	Diecast zinc alloy
INSULATOR	Epoxy resin encapsulant
LIGHTNING PROTECTION	Direct grounded
MOUNTING BRACKETS	See mounting accessories (not supplied)
TYPICAL WEIGHT (UHF)	UHF 1.3 kg (2.87 lb.)
TYPICAL WEIGHT (VHF)	VHF 3.5 kg (7.71 lb.)
TYPICAL LENGTH (UHF)	UHF 0.6 m (23.62 in.)
TYPICAL LENGTH (VHF)	VHF 1.5 m (59.06 in.)
TYPICAL WIND LOADING @ 162 km/h (UHF)	UHF 50 N
TYPICAL WIND LOADING @ 162 km/h (VHF)	VHF 180 N

MOUNTING ACCESSORIES

Mounting accessories to be ordered separately.

TYPE	DIMENSION	PRODUCT NO.
1763-100		123001001
UA64-23	25 - 50 mm	123001006
UA64-23	25 - 76 mm	123001007
UA66-24	25 - 50 mm	123001017
UA66-24	25 - 76 mm	123001018
UA66-24	25 - 100 mm	123001019
UA66-24	25 - 115 mm	123001020



1763-100

Galvanised steel-cross-over clamp, fits 32 mm (1-1/4") diameter antenna booms to up to 50 mm (2") diameter poles, max. length 1500 mm.



UA64-23

Circular cast alloy clamp, gives a good two point fixing, supplied as standard with 4 x 50 mm stainless steel 'U' bolts and two half-moon cast spacers to fit antenna booms of 25 to 50 mm diameter. Will also accommodate 76 mm (3") 'U' bolts to fit masts of that diameter. (order UB06).



UA66-24

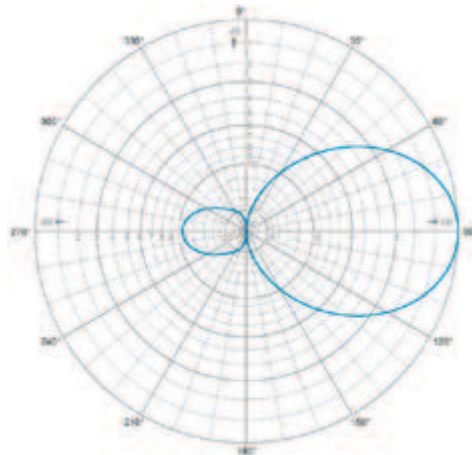
Rectangular cast alloy clamp, gives a good two point fixing, supplied as standard with 4 x 50 mm stainless steel 'U' bolts and two half-moon cast spacers to fit antenna booms of 25 to 50 mm diameter.

To fit 76 mm (3") masts (order UB06 'U' bolts).

To fit 100 mm (4") masts (order UB07 'U' bolts).

To fit 115 mm (4 1/2") masts (order UB09 'U' bolts).

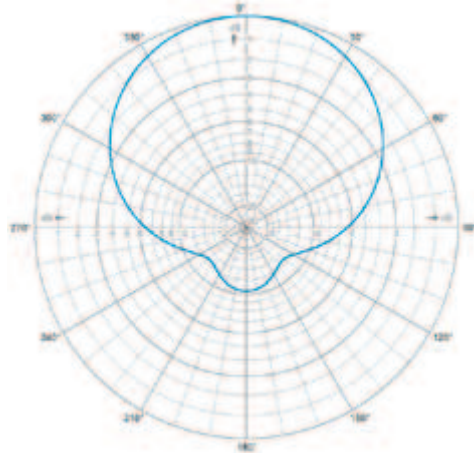
TYPICAL RADIATION PATTERN (E-PLANE)



If the antennas are mounted for vertical polarization, these curves show the radiation patterns in the vertical

plane.

TYPICAL RADIATION PATTERN (H-PLANE)



If the antennas are mounted for vertical polarization, these curves show the radiation patterns in the horizontal plane (horizontal coverage).



PROCOM A/S reserve the right to amend specifications without prior notice

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