

R 1800-...

Shrouded Yagi Antennas for the 1800 MHz Band

DESCRIPTION

- Series of three shrouded yagi antennas with 6–15 dBi gain.
- Covers the 1800 MHz DCS-1800/PCN band (1710 – 1880 MHz).
- Can be used for both vertical and horizontal polarisation.
- H-plane beam widths 24° to 80° and E-plane beam widths 23° to 60° depending on model.
- A sturdy glass reinforced plastic shroud ensures effective protection against the weather.
- All metal parts are DC grounded for noise reduction and lightning protection.
- Materials carefully chosen for minimum electrolytic corrosion and intermodulation.
- Supplied with fixed Norstell clamp (48.5 mm dia.)
- Reliable and robust design for optimum performance and long lifetime.

R 1800-6



R 1880-11



R 1800-15



ORDERING DESIGNATIONS

TYPE	PRODUCT NO.
R 1800-6	120000070
R 1800-11	120000071
R 1800-15	120000072

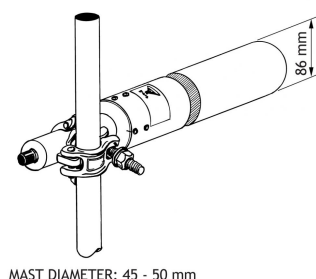
GENERAL SPECIFICATIONS

MODEL	R 1800-6	R 1800-11	R 1800-15
ANTENNA TYPE	Shrouded yagi antenna		
FREQUENCY	1710 – 1880 MHz		
GAIN	8 dBi 6 dBd	13 dBi 11 dBd	17 dBi 15 dBd
H-PLANE BEAM WIDTH (-3 DB POINTS)	80°	43°	24–30°
E-PLANE BEAM WIDTH (-3 DB POINTS)	60°	40°	23–27°
MAXIMUM POWER	150 W		

SPECIFICATIONS

MODEL	R 1800-6	R 1800-11	R 1800-15
ELECTRICAL			
ANTENNA TYPE	Shrouded yagi		
FREQUENCY	1710 – 1880 MHz		
IMPEDANCE	Nom. 50 Ω		
POLARIZATION	Vertical or horizontal		
GAIN	8 dBi 6 dBd	13 dBi 11 dBd	17 dBi 15 dBd
H-PLANE BEAM WIDTH (-3 DB POINTS)	80°	43°	24 – 30°
E-PLANE BEAM WIDTH (-3 DB POINTS)	60°	40°	23 – 27°
FRONT TO BACK RATIO	> 20 dB	> 20 dB	20 dB
BANDWIDTH	170 MHz		
SWR	≤ 1.5		
MAX. POWER	150 W		
ANTISTATIC PROTECTION	All metal parts DC-grounded (Connector shows a DC-short)		
MECHANICAL			
TEMP. RANGE	-25°C → +60°C		
CONNECTOR	"N" type female		
WIND LOAD @ 160 km/h	34 N	63 N	114 N
WIND SURFACE	0.027 m²	0.050 m²	0.090 m²
COLOUR	Grey		
SHROUD	86 mm dia. glass fibre tube		
LENGTH	420 mm	620 mm	1300 mm
WEIGHT	1.6 kg	1.8 kg	2.1 kg
MOUNTING	Supplied with fixed Norstell clamp (48.5 mm dia.) for mounting on 45 - 50 mm mast tubes		

MOUNTING OUTLINE



POLARISATION:
The orientation of the polarisation is indicated on the back side of the antenna.

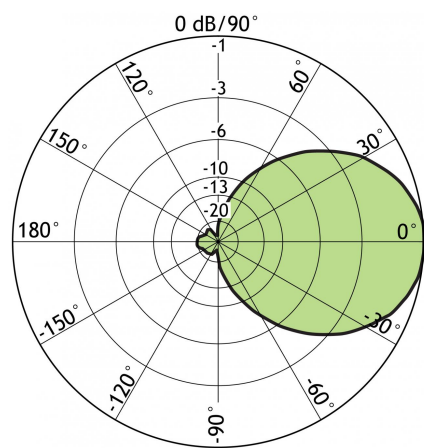
HORIZONTAL POLARISATION:
Mount the antenna with the letter H on the rear oriented horizontally.
REAR VIEW:



VERTICAL POLARISATION:
Mount the antenna with the letter H on the rear oriented vertically.
REAR VIEW:

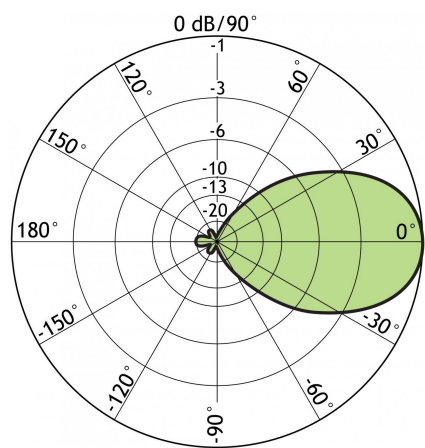


TYPICAL RADIATION PATTERN (H-PLANE)

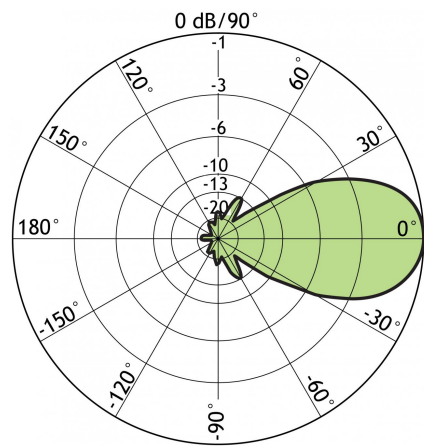


H-PLANE: Outer ring 6 dBd

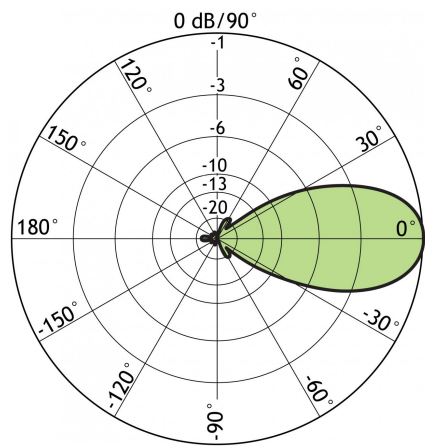
TYPICAL RADIATION PATTERN (E-PLANE)



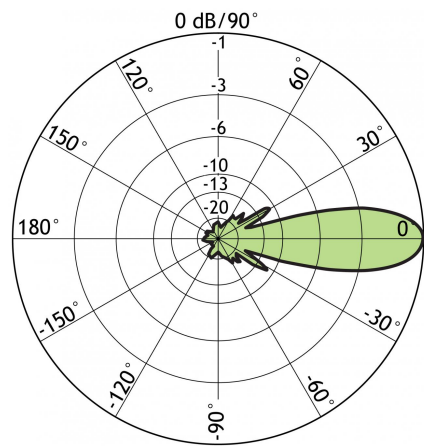
E-PLANE: Outer ring 6 dBd



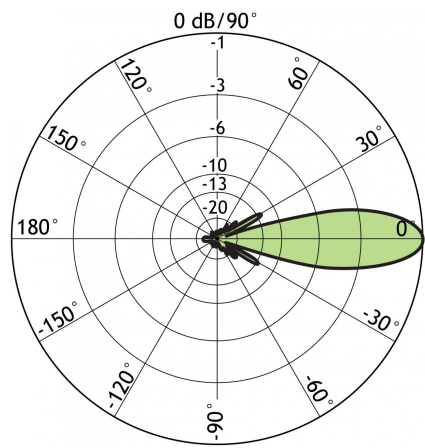
H-PLANE: Outer ring 11 dBd



E-PLANE: Outer ring 11 dBd



H-PLANE: Outer ring 15 dBd



E-PLANE: Outer ring 15 dBd



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14/10/11