

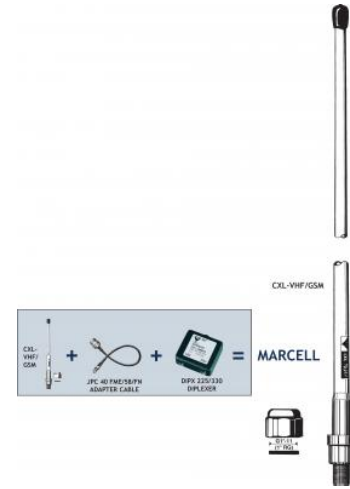
2-Band Marine Antenna System Covering Maritime VHF and 900 MHz Cellular (GSM/NMT-900)

DESCRIPTION

- > Complete package for maritime VHF and 900 MHz cellular all you need extra is a download cable.
- > The antenna is mounted using the 1" revolving nut system and easily replaces the existing antenna – the download cable may be reused.
- > The system comprises:
 - > CXL-VHF/GSM dual-frequency antenna,
 - > DIPX 225/330 splitting filter to connect the two radio telephones to one antenna,
 - > JPC 40 FME/58/FN jumper cable.
- > One antenna – two bands
 - > Covers maritime VHF (155 – 162 MHz) and 900 MHz cellular (890 – 960 MHz).
 - > 0 dBd on both bands.
 - > Exploits the mast head space optimally.
 - > Eliminates interference problems between two closely mounted antennas.
 - > Only one download cable necessary.
- > Mount the antenna as high as possible and unobstructed by metal objects.
- > Wide range of accessory mounting brackets available (see next page).

ORDERING

Type	Product No.
MARCELL	110000128

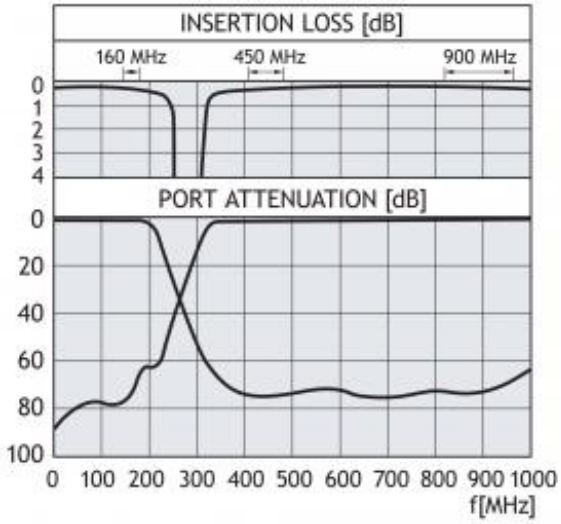


SPECIFICATIONS

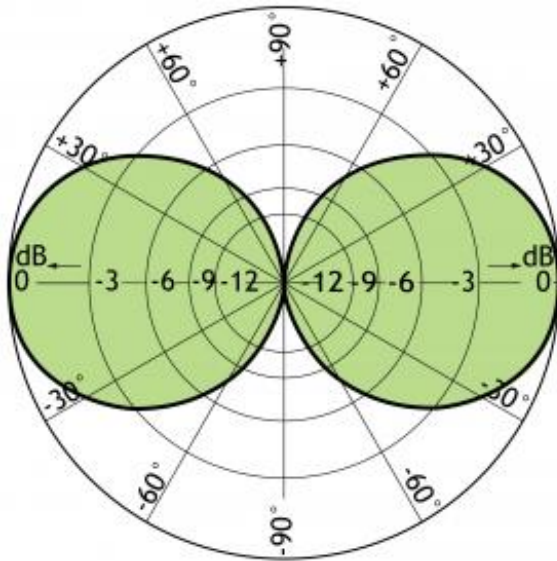
Electrical	
Model	MARCELL
Frequency	Maritime VHF: 155 - 162 MHz GSM/NMT-900: 890 - 960 MHz
Antenna Type	Dual-frequency coaxial antenna
Filter Frequency	Low port: 0 - 255 MHz High port: 330 - 1300 MHz
3 dB Beamwidth, H-Plane	Omnidirectional
Polarisation	Vertical
Pattern Type	Omnidirectional
Impedance	50 Ω
Antenna Gain	2 dBi 0 dBd on both bands
Antenna VSWR	TX: = 1.5:1 RX: = 2.5:1
Maximum Input Power	35 W on each filter port (100 W for the antenna)
Filter Insertion Loss	0 - 225 MHz: = 0.5 dB 330 - 1300 MHz: = 0.5 dB
Filter Isolation	Low to high port: = 45 dB
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
Mechanical	
Jumper Cable	40 cm RG 58
Wind Area	0.013 sq. m / 0.14 sq. ft
Connection(s)	Antenna: N-female Filter: FME-male (all ports) Jumper cable: FME-female and N-female
Cable	Not supplied. Min. RG 213 recommended.
Colour	Marine white
Antenna Materials	Shroud: Polyurethane coated glass fibre Mounting bracket: Chromed brass
Wind Load	15 N (160km/h)
Antenna Height	1.1 m / 43.31 in.
Dia. At Top End	8 mm / 0.31 in.
Dia. At Bottom End	16 mm / 0.63 in.
Mounting	On 1" RG (G1" - 11) threaded water pipe or on optional mounting brackets (see accessories)
Filter Dimensions (W X H X D)	50 x 21 x +50 mm
Antenna Weight	0.4 kg / 0.88 lb
Environmental	
Operating Temperature Range	-30°C to +70°C

ADDITIONAL DATA

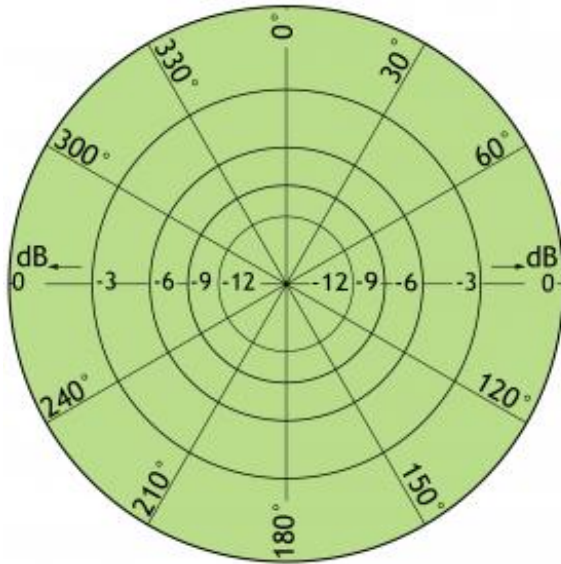
FILTER RESPONSE



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



FME-SYSTEM ACCESSORIES

FME-CABLES		FME-CONNECTORS	
TYPE	PRODUCT NO.	TYPE	PRODUCT NO.
1 m FME	130000437	FME-FME	130000583
2 m FME	130000447	FME-P (Prolongation)	130000565
3 m FME	130000457	FME-N	130000571
4 m FME	130000466	FME-FSMA (Female-SMA)	130000578
5 m FME	130000474	FME-BNC	130000566
6 m FME	130000483	FME-TNC	130000569
4 m FME-white	110000064	FME-UHF	130000572
6 m FME-white	110000066	FME-MUHF (Mini-UHF)	130000573
12 m FME-white	110000068	FME-EMUHF (Elbow-MUHF)	130000582
18 m FME-white	110000069	FME-EBNC (Elbow-BNC)	130000580
For further information about other types of FME-cables and FME-connectors, please compare the cable and connector data sheets under accessories in our catalogue.		FME-ETNC (Elbow-TNC)	130000581
		FME-SMA	130000577

MOUNTING ACCESSORIES

(To be ordered separately)

