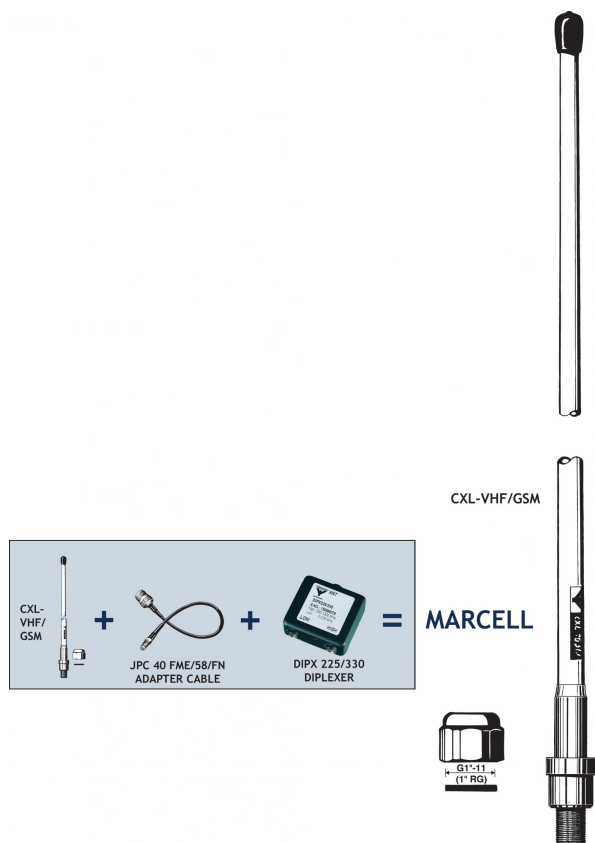


MARCELL

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 downlead cable.
- 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 downlead cable necessary.
- The antenna is mounted using the 1" revolving nut system and easily replaces the existing antenna – the downlead cable may be reused.
- Mount the antenna as high as possible and unobstructed by metal objects.
- Wide range of accessory mounting brackets available (see next page).



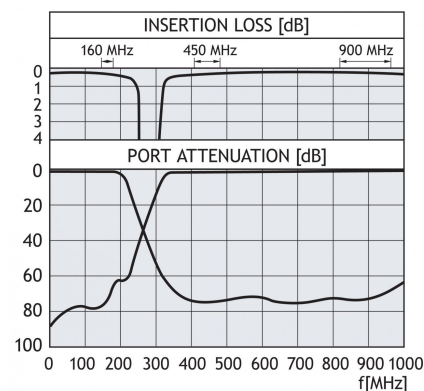
ORDERING DESIGNATIONS

TYPE NO.	PRODUCT NO.
MARCELL	110000128

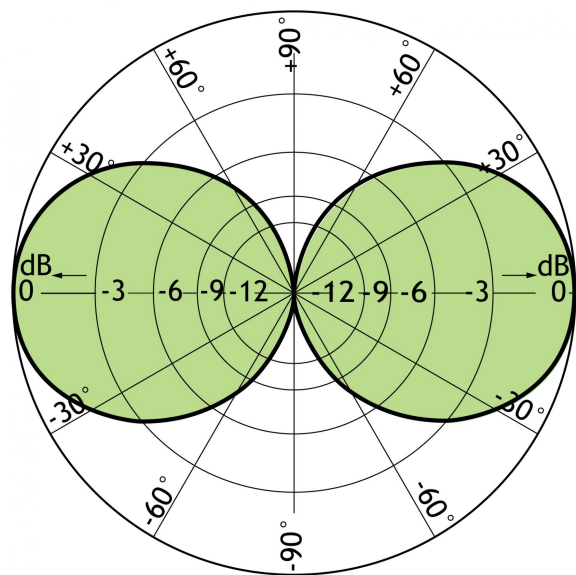
SPECIFICATIONS

ELETRICAL	
MODEL	MARCELL
ANTENNA TYPE	Dual-frequency coaxial antenna
ANTENNA FREQUENCY	Maritime VHF: 155 – 162 MHz GSM/NMT-900: 890 – 960 MHz
FILTER FREQUENCY	Low port: 0 – 255 MHz High port: 330 – 1300 MHz
IMPEDANCE	Nom. 50 Ω
RADIATION	Omnidirectional
POLARISATION	Vertical
ANTENNA GAIN	2 dBi 0 dBd on both bands
ANTENNA SWR	TX: ≤ 1.5 RX: ≤ 2.5
FILTER INSERTION LOSS	0 – 225 MHz: ≤ 0.5 dB 330 – 1300 MHz: ≤ 0.5 dB
FILTER ISOLATION	Low to high port: ≥ 45 dB
MAX. POWER	35 W on each filter port (100 W for the antenna)
ANTISTATIC PROTECTION	All metal parts of the antenna are DC-grounded (shows a DC-short at the connector)
MECHANICAL	
TEMP. RANGE	-30°C \rightarrow +70°C
CONNECTOR	Antenna: N-female Filter: FME-male (all ports) Jumper cable: FME-female and N-female
JUMPER CABLE	40 cm RG 58
DOWNLEAD CABLE	Not supplied. Min. RG 213 recommended.
WIND SURFACE	Approx. 0.013 m ²
WIND LOAD	Approx. 15 N @ 150 km/h
COLOUR	Marine white
ANTENNA MATERIALS	Shroud: Polyurethane coated glass fibre Mounting bracket: Chromed brass
ANTENNA HEIGHT	Approx. 1.1 m
DIA. IN TOP END	8 mm
DIA. IN BOTTOM END	16 mm
FILTER DIMENSIONS (W x H x D)	50 x 21 x 50 mm
ANTENNA WEIGHT	Approx. 400 g
MOUNTING	On 1" RG (G1"-11) threaded pipe or on optional mounting brackets (see below).

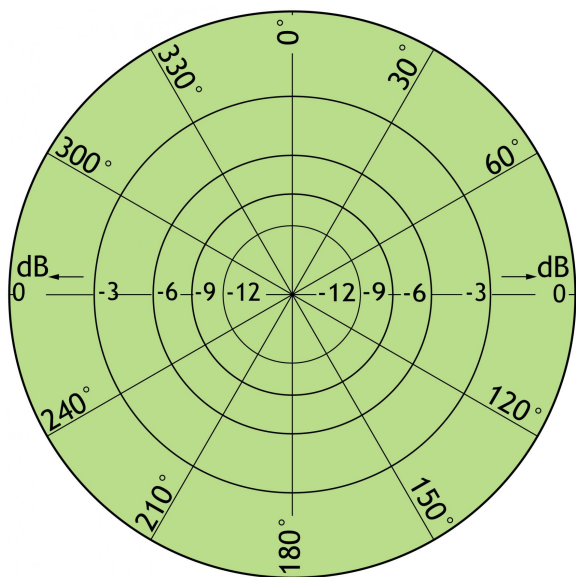
FILTER RESPONSE



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



FME-SYSTEM ACCESSORIES

FME-CABLES	
TYPE	PRODUCT NO.
1 m FME	130000437
2 m FME	130000447
3 m FME	130000457
4 m FME	130000466
5 m FME	130000474
6 m FME	130000483
4 m FME-white	110000064
6 m FME-white	110000066
12 m FME-white	110000068
18 m FME-white	110000069

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-CONNECTORS	
TYPE	PRODUCT NO.
FME-FME	130000583
FME-P (Prolongation)	130000565
FME-N	130000571
FME-FSMA (Female-SMA)	130000578
FME-BNC	130000566
FME-TNC	130000569
FME-UHF	130000572
FME-MUHF (Mini-UHF)	130000573
FME-EMUHF (Elbow-MUHF)	130000582
FME-EBNC (Elbow-BNC)	130000580
FME-ETNC (Elbow-TNC)	130000581
FME-SMA	130000577



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26/10/12