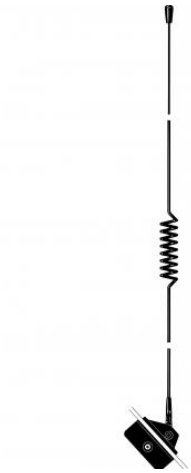
Dual-frequency Mobile GlassFix® Antenna for the 2 m and 70 cm Amateur Bands

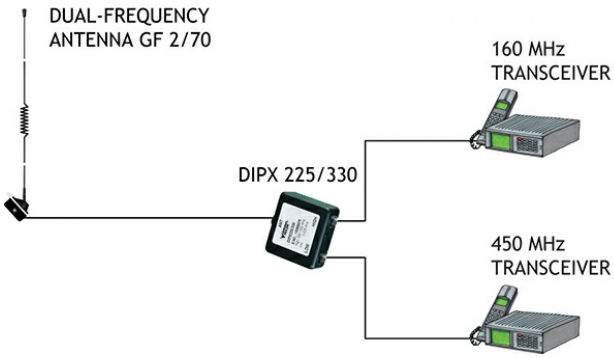


DESCRIPTION

- Dual-frequency mobile antenna for the 2 m and 70 cm amateur bands using the GlassFix® mounting principle.
- Mounting on car window glass – no holes required
- Makes it possible to:
  - operate 2 m and 70 cm transceivers alternately on the same antenna
  - operate two transceivers (2 m and 70 cm) at the same time using a diplexer (type DIPX 225/330 – to be ordered separately).
- Double-adhesion procedure ensures fast and reliable fixing.
- Internal matching unit feeds external antenna through window glass.
- Shortened half-wave (2 m) / half-wave colinear design (70 cm) – no ground-plane required.
- High positioning gives performance equal to conventionally mounted car roof antenna.
- FME FastCabling system (cable to be ordered separately).
- Simple tuning procedure by means of two tuning screws on matching unit.
- Easy removable whip for car wash.
- Swivel joint for 180° angle adjustment.
- If removal of antenna installation is necessary, a quick dismantling procedure leaves no trace of the installation.

NOTE: GF antennas are not suitable for car models with windows that have heat reflective coating.

CONNECTION DIAGRAM



SPECIFICATIONS

Electrical	
Model	GF 2/70
Frequency	432 - 438 MHz
Antenna Type	Dual-frequency mobile GlassFix® antenna
Max. Input Power	2 m : 20 W 70 cm : 20 W discontinuous
Polarisation	Vertical
Impedance	50 Ω
Bandwidth	2 m: 3 MHz 70 cm : 6 MHz @ VSWR ≤ 2.0
Gain (EIA RS-329-1)	2 m : equal to shortened roof-mount antenna 70 cm : 1 dB

Mechanical	
Materials	Whip : Stainless steel and brass, black-chromed Mount and indoor unit : Weather- and shockproof plastics Corrosion-safe and corrosion-protected metals
Cable	FME-cable to be ordered separately
Colour	Black
Height	Approx. 78 cm / 30.71 in.
Weight	Approx. 0.125 kg / 0.28 lb.
Mounting	On car windows with silicone glue (52 mm x 47 mm obstruction-free mounting area required)
Glass Thickness	2.5 - 7 mm / 0.10 - 0.28 in.

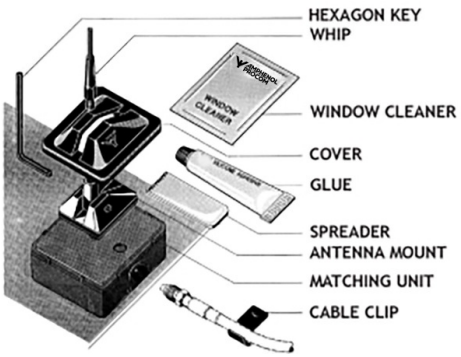
ORDERING

Model	Product No.
GF 2/70	130000706
Accessories FME-Cables	
1 m FME(f)	130000437
2 m FME(f)	130000447
3 m FME(f)	130000457
4 m FME(f)	130000466
5 m FME(f)	130000474
6 m FME(f)	130000483
4 m FME-white(f)	110000064
6 m FME-white(f)	110000066
12 m FME-white(f)	110000068
18 m FME-white(f)	110000069
Accessories FME-Connectors	
FME(f)-FME(f)	130000583
FME(m)-P(m) (Prolongation)	130000565
FME(m)-N(m) 130000571	130000571
FME(m)-FSMA (Female-SMA)	130000578
FME(m)-BNC(m)	130000566
FME(m)-TNC(m)	130000569
FME(m)-UHF(m)	130000572
FME(m)-MUHF(m) (Mini-UHF)	130000573
FME(m)-EMUHF(m) (Elbow-MUHF)	130000582
FME(m)-EBNC(m) (Elbow-BNC)	130000580
FME(m)-ETNC(m) (Elbow-TNC)	130000581
FME(m)-SMA(m)	130000577

FME-SYSTEM ACCESSORIES - NOTE

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.

ASSEMBLY DETAILS



1. BEFORE INSTALLATION

- When selecting mounting location take into consideration: positions of back view mirror, wiper blade paths and defogger wires (when mounting on rear window). The driver's view should not be obstructed.
- Max. allowed curvature of the glass surface on the mounting spot is 2 mm deflection per 100 mm length.
- Environmental- and car temperature must be above 15° C at installation, and surfaces to be glued must be dry and clean.

2. INSTALLATION



Do not use sealer on rubber gasket or other places.

3. AFTER INSTALLATION

- Allow the silicone gluings to dry off 2 hours at a temperature above 15° C. To ensure full strength of the glue, it is recommended to keep the whip off the mount for 24 hours.

4. TUNING INSTRUCTIONS

- Insert a forward/reflection-type wattmeter between the transmitter and the antenna.
- Key the transmitter on the 2 m band and observe the forward and the reflected power.
- Adjust the tuning screw marked "2 m" on the matching unit until minimum returned power is obtained.
- Repeat steps •2. and •3. with the transmitter on the 70 cm band and using the tuning screw marked "70 cm".
- Check that the reflected power is still minimum at the 2 m band. Fine-tune using the "2 m" tuning screw if necessary.

REINSTALLATION KIT

A reinstallation kit including all necessary parts for transfer of the antenna to another vehicle is available under order No. »GF-RK«.

WARNING

SAFETY PRECAUTIONS

Antennas mounted on the windscreen may cause relatively high field strengths in the passenger cabin and near the dashboard.

- To prevent health hazard due to RF radiation, persons must not be closer than30 cm to the antenna whip (transmitter output power to the matching unit: 20 W). (DIN 57 848).
- The RF signals at the dashboard may cause interference in the car's electronic equipment such as broadcast radio, computer automatics, braking systems, electronic ignition, relays etc. Some cars are more susceptible to disturbances than others. It is the responsibility of the installer to carry out a thorough check of the proper functioning under any conditions of such circuits before finishing installation.

The enclosed silicone adhesive contains acetic acid and fungicides. Keep out of reach of children and dispose properly.

OPERATION USING A DIPLEXER

In case of operating two transceivers on one antenna at the same time, a diplexer, type DIPX 225/330 is necessary to complete the system. The tasks of the diplexer are to protect the two receiver inputs from being destroyed by the transmitter in the contrary band, and to ensure a low-loss path between the transceiver and the antenna, which is not loaded by the other branch. For further details please see the separate data sheet on the DIPX 225/330. The diplexer fully covers both bands and, consequently, tuning to specific frequencies is not required.

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