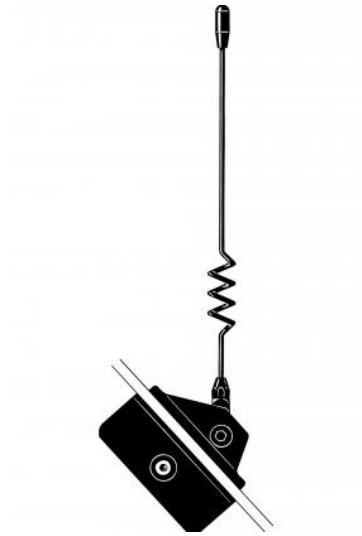
Mobile GlassFix® Antenna for the 1800 MHz Band



DESCRIPTION

- Colinear mobile antenna for the 1800 MHz band (e.g. DCS-1800/PCN) using the GlassFix® mounting principle.
- Mounting on car window glass – no holes required.

  NOTE: GF antennas are notsuitable for car models with windows that have heat reflective coating.

- Instant-adhesion procedure ensures fast and reliable fixing.
- Internal matching unit feeds external antenna through window glass.
- Half-wave colinear design – no ground plane required.
- FME FastCabling system (cable to be ordered separately).
- Simple tuning procedure by means of tuning screw 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.

SPECIFICATIONS

Electrical	
Model	GF 1804
Frequency	1800 MHz-band (1700 - 1900) MHz
Antenna Type	Collinear mobile GlassFix® antenna
Max. Input Power	25 W
Polarisation	Vertical
Impedance	50 Ω
VSWR	≤ 1.3 @ f.res.
Bandwidth	≥ 170 MHz @ VSWR ≤ 1.75

Mechanical	
Materials	Whip : Stainless steel and brass, black-chromed Mount and indoor unit : Environment-proof plastics Corrosion-safe and corrosion-protected metals
Cable	FME-cable to be ordered separately
Colour	Black
Height	Approx. 110 mm / 4.33 in.
Weight	Approx. 0.06 kg / 0.13 lb.
Mounting	On car windows (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 1804	130001514

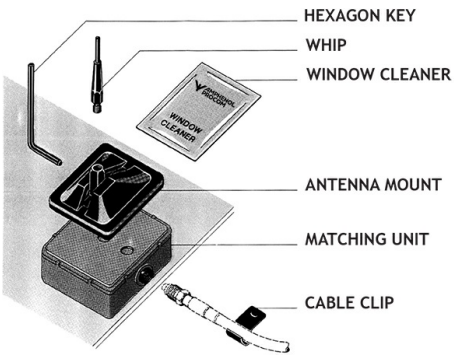
FME-SYSTEM ACCESSORIES

FME-CABLES	
LENGTH	TYPE NO.
1 m	1 m FME
2 m	2 m FME
3 m	3 m FME
4 m	4 m FME
5 m	5 m FME
6 m	6 m FME
4 m white	4 m FME-white
6 m white	6 m FME-white
12 m white	12 m FME-white
18 m white	18 m FME-white

FME-CONNECTORS	
CONNECTOR	ORDER NO.
FME-FME	FME-FME
Prolongation	FMEP
N	FME-N
FSMA	FME-FSMA
BNC	FME-BNC
TNC	FME.TNC
UHF	FME-UHF
Mini-UHF	FME-MUHF
Elbow-MUHF	FME-EMUHF
Elbow-BNC	FME-EBNC
Elbow-TNC	FME-ETNC
SMA	FME-SMA

For further information about other types of FME-cables please compare the cable data sheets under accessories in our catalogue.

ASSEMBY DETAILS



GLUE OPTION

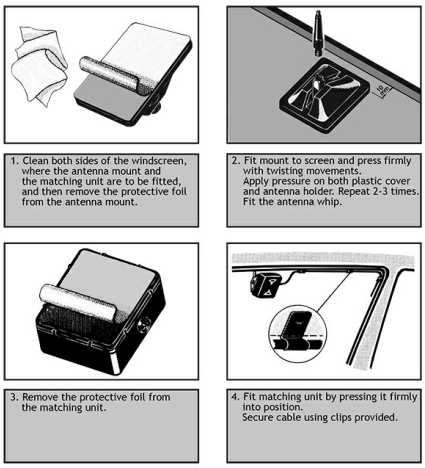
For the antenna to be delivered with silicone glue to secure the mount using a double-adhesion procedure, add an M to the antenna designation: GF 1804M.



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 installation surfaces must be dry and clean.

2. INSTALLATION



Do not use sealer on rubber gasket or other places.

3. TUNING INSTALLATION

- Insert a forward/reflection-type wattmeter between the transmitter and the antenna.
- Key the transmitter and observe the forward and the reflected power.
- Adjust the tuning screw on the matching unit until minimum returned power is obtained. For duplex operation, the antenna can be off-tuned slightly to favorize the matching on the Rx. Turning the screw clockwise will shift the antenna resonance to a lower frequency and vice versa. The VSWR on the Tx should, however, never exceed 1:1.5.

4. ADHESION ADVICE

- It is essential for a good adhesion result that the surfaces are properly cleaned and dry.
- A high application pressure improves the binding power.
- Ideal application temperature range is +20° C to +38° C but may be extended down to +15° C. When applied, binding strength is maintained between -30° C and +70° C.
- Binding power increases considerably with time. To ensure full strength of the assembly it is recommended to keep the whip off the mount for 24 hours.
- To accelerate attainment of full binding power, the joined parts may be heat-treated with a warm-air gun.
  PLEASE NOTE:Do not heat parts to more than 65° C and take care not to spoil other nearby car parts.

REINSTALLATION KIT

A reinstallation kit including all necessary parts for transfer of the antenna to another vehicle is available under order No. »GF-RK 900«.

WARING

SAFETY PRECAUTIONS

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

1. To prevent health hazard due to RF radiation, persons must not be closer than 30 cm to the antenna whip (transmitter output power to the matching unit: 20 watts). (DIN 57 848).

2. 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.

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