

GPS Antenna with a $\frac{1}{4} \lambda$ Mobile Antenna for the 900 MHz, 1800 MHz and UMTS Bands

DESCRIPTION

- External antenna whip mounted on the GPS-Combi mount.
- GPS-antenna for fixed installations.
- Triple-frequency antenna covering EGSM-900, DCS-1800 and UMTS.
- Easily removable whip for car wash.
- Full hemispherical coverage.
- Built-in high-gain, low-noise amplifier.
- Right-Hand Circular Polarization (RHCP).
- 5 V supply voltage (3 V respectively 12 V available on request).
- DC supply via RF-connector.

GPS Antenna	
P1dB (GPS Amplifier)	Approx. +7 dBm
Gain (GPS)	28 dBic in axial direction (typ.)
Antenna Type (GPS)	Active patch antenna
Noise Figure (GPS Amplifier)	< 1 dB (typ.)
Cross Polar Discrimination (GPS)	> 10 dB (typ.)
Gain (GPS Amplifier)	> 30 dB (typ.)
VSWR (GPS Amplifier)	< 2.0:1
Operating Temperature Range (GPS)	-35 to 75 °C
Selectivity (GPS)	> 45 dB down at +/- 45 MHz
Installation Torque (GPS)	4 ± 0.5 Nm
Frequency (GPS)	1575 MHz
Weight (GPS)	0.114 kg / 0.25 lb
Power Supply (GPS)	5 ± 0.5 VDC (3 V resp. 12 V on request)
Current Consumption (GPS Amplifier)	0.025 mA
Dimensions (GPS)	Approx. 30 x 89 mm
Colour (GPS)	Black
Polarisation (GPS)	RHCP
Impedance (GPS)	50 Ω
Materials (GPS)	Cu-nite brass, Stainless steel, Reinforced thermoplastic

ORDERING

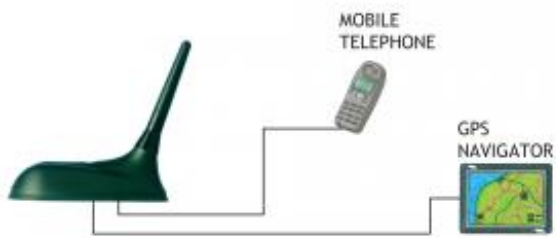
Type	Product No.
GPS-C 900/1800/UMTS	132000046



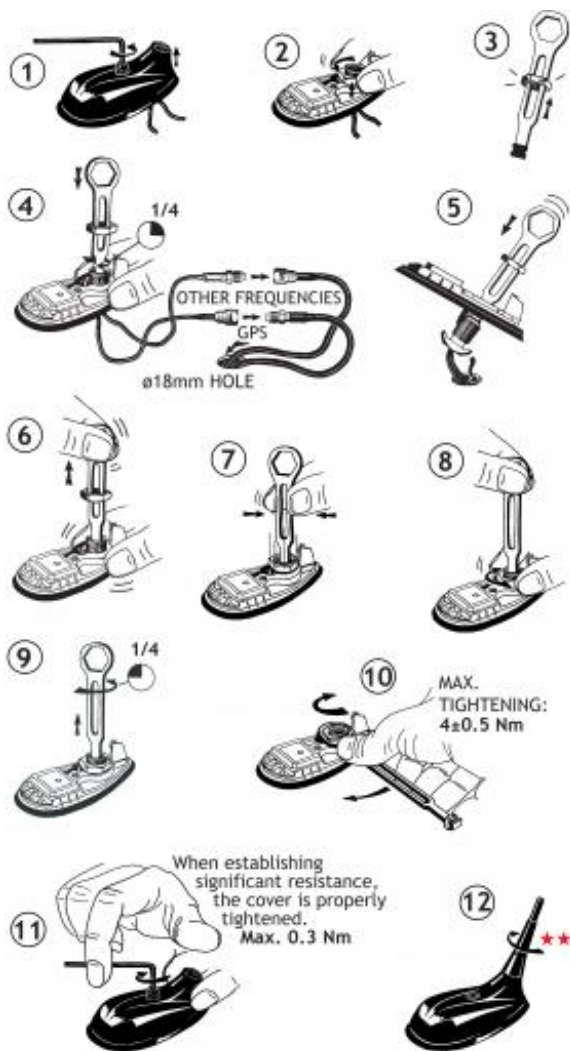
SPECIFICATIONS

Electrical	
Model	GPS-C 900/1800/UMTS
Frequency	880-960 MHz (EGSM) 1710-1880 MHz (DCS) 1900-2200 MHz (UMTS)
Antenna Type	Triple-frequency antenna
Polarisation	Vertical
Impedance	50 Ω
VSWR	< 1.5:1 @ F(res)
Maximum Input Power	25 W
Bandwidth	900 MHz: = 80 MHz @ SWR = 1.6:1 1800 MHz: = 170 MHz @ SWR = 2.25:1
Gain (EIA RS-329-1)	0 dB
Mechanical	
Connection(s)	FME (male for GPS) + FME (female for mobile antenna)
Materials	Black-chromed brass, Black POM
Colour	Black
Height	67 mm / 2.64 in.
Max. Roof Thickness	2.5 mm / 0.10 in.
Weight	0.016 kg / 0.04 lb
Mounting	On the GPS-Combi mount

ADDITIONAL DATA



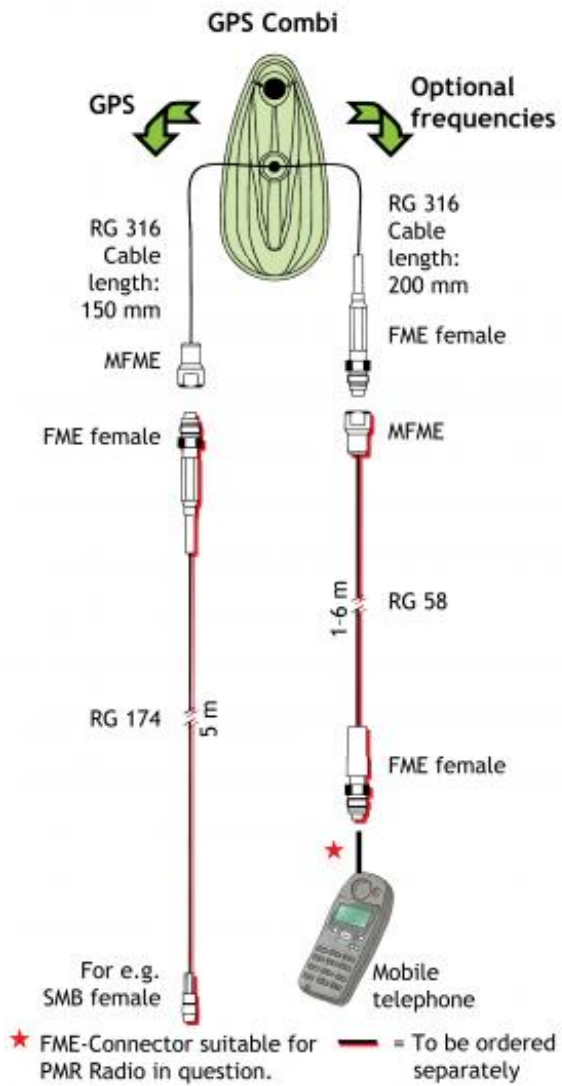
MOUNTING INSTRUCTIONS



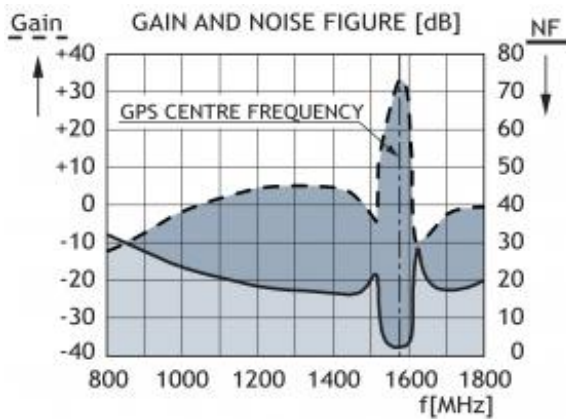
★★ The whip should always be dismantled during car wash.

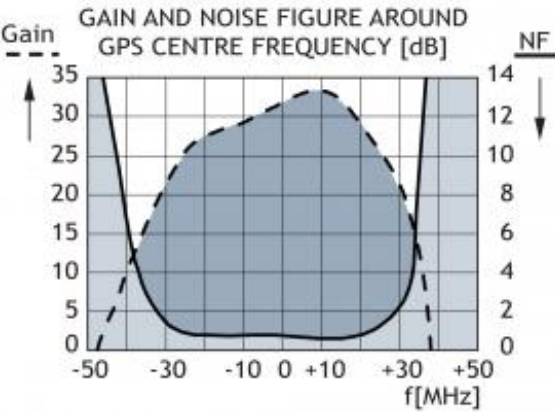
Do not use sealer on rubbergasket or other places.

CABLE MOUNTING



TYPICAL RESPONSE CURVES





VERTICAL RADIATION PATTERN

