

GPS Antenna with a $\frac{1}{4} \lambda$ Mobile Antenna for the UMTS Band

DESCRIPTION

- External antenna whip mounted on the GPS-Combi mount.
- GPS-antenna for fixed installations.
- Mobile antenna for the UMTS band.
- Black-chromed whip in nice, discrete design.
- Easily removable whip for car wash.
- Full hemispherical coverage.
- Built-in high gain, low noise amplifier.
- Right-Hand Circular Polarisation (RHCP).
- 5 V supply voltage (3 V respectively 12 V available on request).
- DC supply via RF-connector.



ORDERING

Type	Product No.
GPS-C UMTS	132000081

SPECIFICATIONS

Electrical	
Model	GPS-C UMTS
Frequency	1900 - 2200 MHz
Antenna Type	$\frac{1}{4}\lambda$ mobile antenna
Polarisation	Vertical
Impedance	50 Ω
VSWR	< 1.3:1 @ F(res)
Maximum Input Power	25 W
Bandwidth	≥ 300 MHz @ SWR ≤ 2.25
Gain (EIA RS-329-1)	0 dB

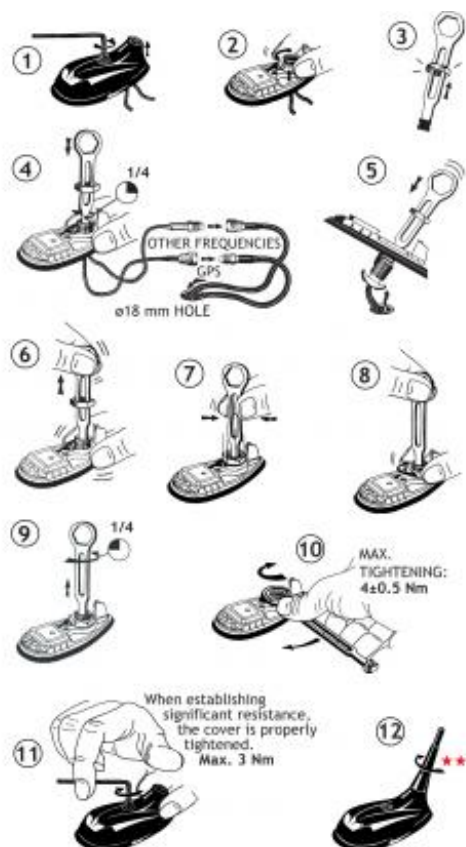
Mechanical	
Materials	Black-chromed brass
Colour	Black
Height	250 mm / 9.84 in.
Max. Roof Thickness	2.5 mm
Weight	0.016 kg / 0.04 lb
Mounting	On the GPS-Combi mount

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
Frequency (GPS)	1575 MHz
Weight (GPS)	0.114 kg
Power Supply (GPS)	5 $\pm$ 0.5 VDC (3 V resp. 12 V on request)
Current Consumption (GPS Amplifier)	Approx. 25 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

ADDITIONAL DATA



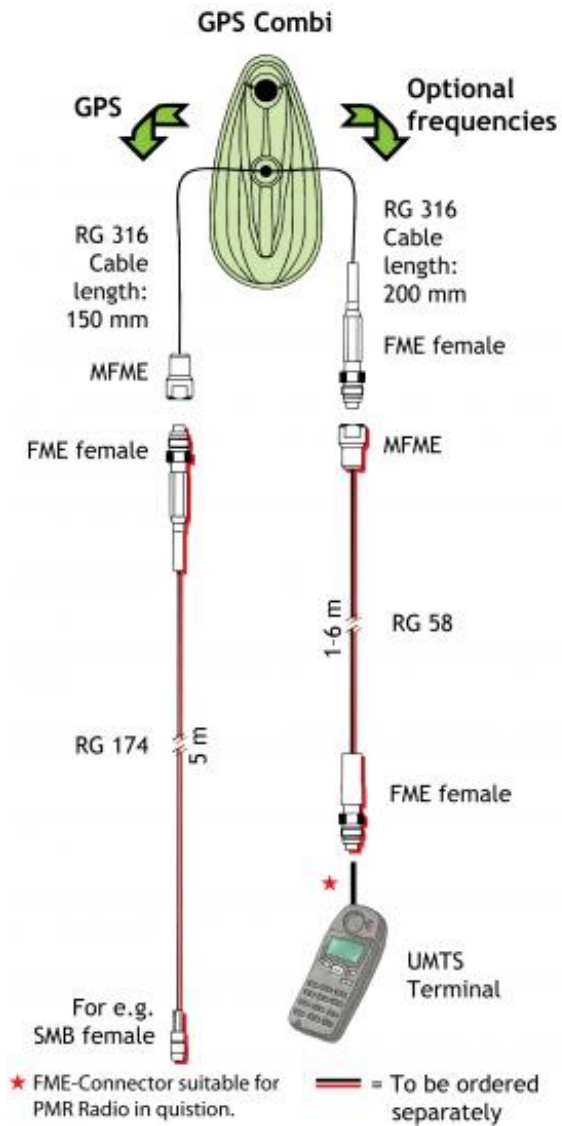
MOUNTING INSTRUCTIONS



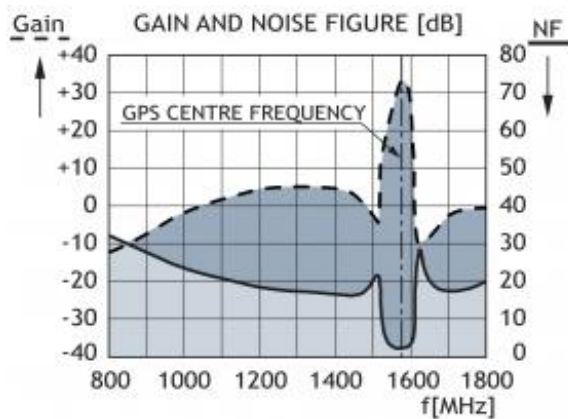
★★ The whip should always be dismantled during car wash.

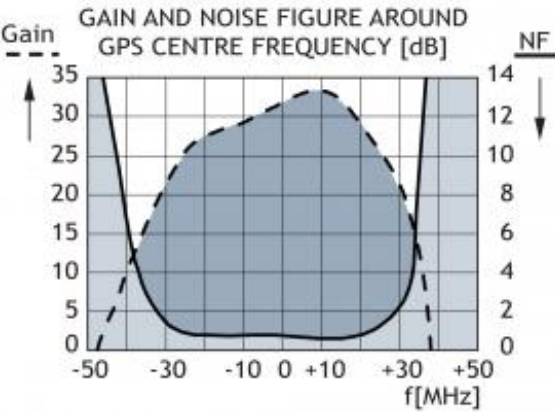
Do not use sealer on rubber gasket or other places.

CABLE MOUNTING



TYPICAL RESPONSE CURVES





VERTICAL RADIATION PATTERN

