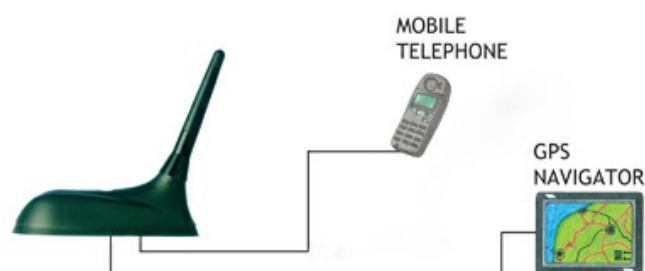


GPS Antenna with a $\frac{1}{4} \lambda$ Mobile Antenna for the 900 MHz Band

DESCRIPTION

- External antenna whip mounted on the GPS-Combi mount.
 - Mobile antenna for the 900 MHz cellular systems.
 - Easily removable whip for cleaning in car-washing machine.
- GPS-antenna for fixed installations.
 - Full hemispherical coverage.
 - Built-in high gain, low noise amplifier.
 - Right-Hand Circularly Polarized antenna (RHCP).
 - 5 V supply voltage (3 V respectively 12 V available on request).
 - DC supply via RF-connector.

CONNECTION DIAGRAM



SPECIFICATIONS

Electrical	
Model	GPS-C 900
Frequency	807 - 960 MHz
Antenna Type	Mobile antenna
Max. Input Power	25 W
Polarisation	Vertical
Impedance	50 Ω
VSWR	< 1.5:1 @ f.res
Bandwidth	≥ 200 MHz @ VSWR ≤ 2.0
Gain (EIA RS-329-1)	0 dB

Mechanical	
Materials	Black-chromed brass, Black POM
Colour	Black
Height	Approx. 67 mm / 2.64 in.
Weight	Approx. 0.016 kg / 0.04 lb.
Mounting	On the GPS-Combi mount

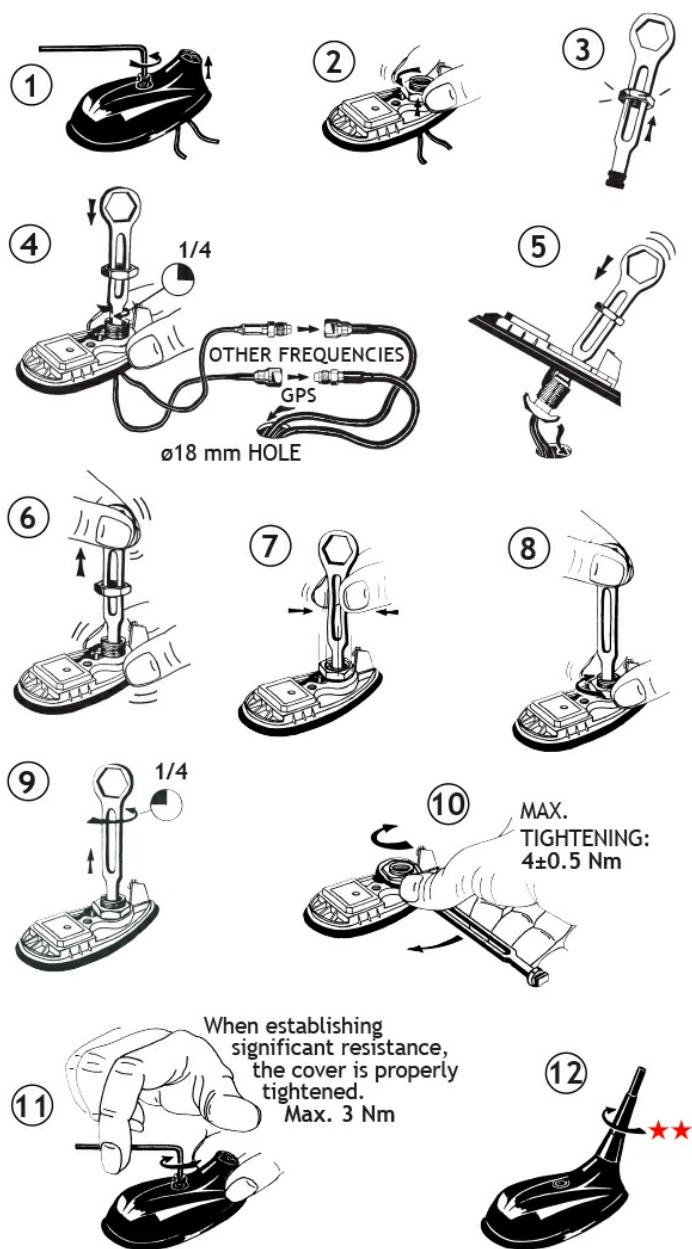


GPS Antenna	
P1dB (GPS Amplifier)	Approx. 7 dBm
Coverage (GPS)	Hemispherical
Gain (GPS)	28 dBic in axial direction (typ.)
Connection(s) (GPS)	FME(m) (male for GPS) + FME(f) (female for mobile antenna)
Mounting (GPS)	$\varnothing 18.0$ mm dia. hole for roof thickness up to 2.0 mm $\varnothing 18.5$ mm dia. hole for roof thickness 2.0 - 2.5 mm Tools for mounting included
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 °C to +75 °C
Selectivity (GPS)	> 45 dB down @ ± 45 MHz
Installation Torque (GPS)	4 ± 0.5 Nm
Frequency (GPS)	1575 MHz
Weight (GPS)	Approx. 0.114 kg / 0.25 lb.
Power Supply (GPS)	5 ± 0.5 V DC (3 V resp. 12 V on request)
Current Consumption (GPS Amplifier)	0.025 mA
Dimensions (GPS)	Approx. 30 x 89 mm / 0.9 x 2.9 in.
Max. Roof Thickness (GPS)	2.5 mm / 0.10 in.
Colour (GPS)	Black
Polarisation (GPS)	RHCP
Impedance (GPS)	50 Ω
Materials (GPS)	Cu-nite brass Stainless steel Reinforced thermoplastic

ORDERING

Model	Product No.
GPS-C 900	132000073

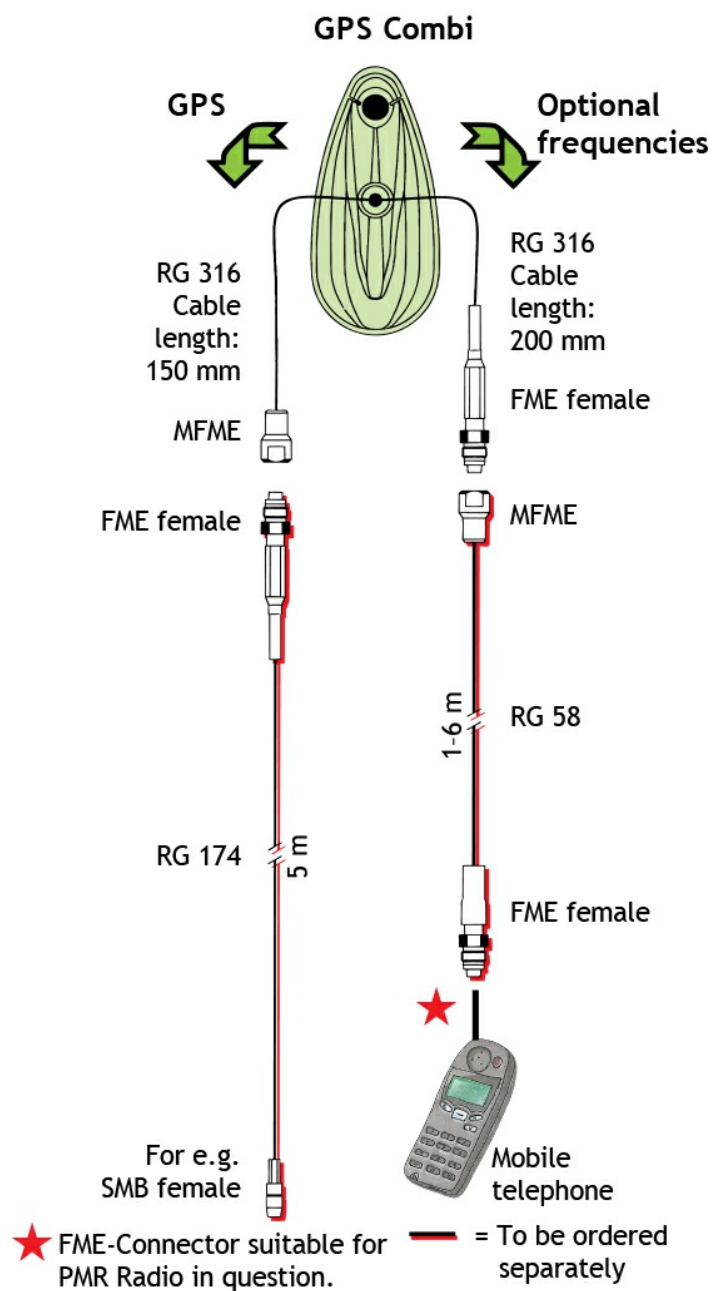
MOUNTING INSTRUCTIONS



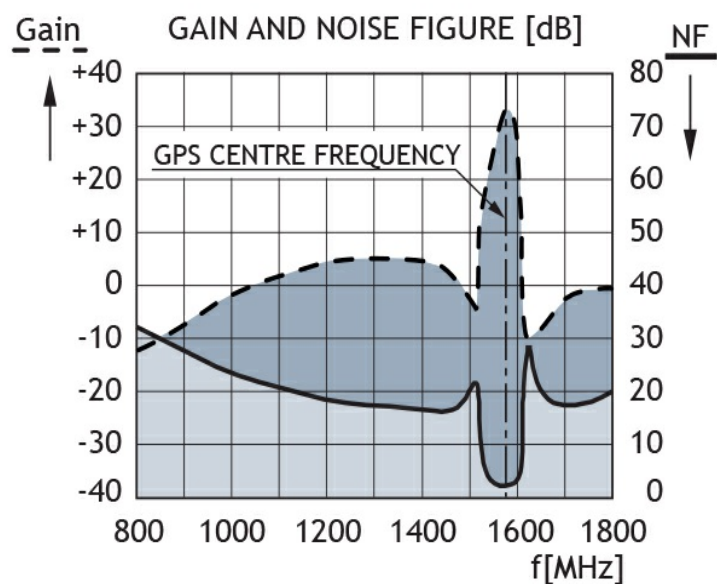
★★ The whip should always be dismantled during car wash.

Do not use sealer on rubber gasket or other places.

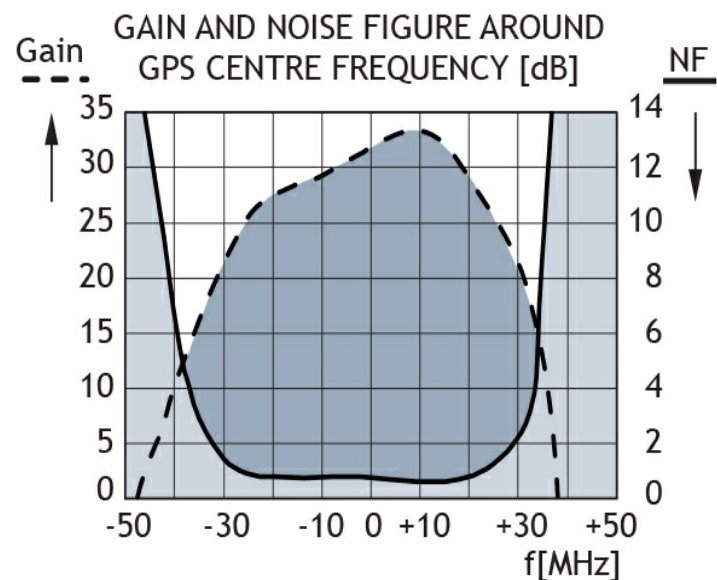
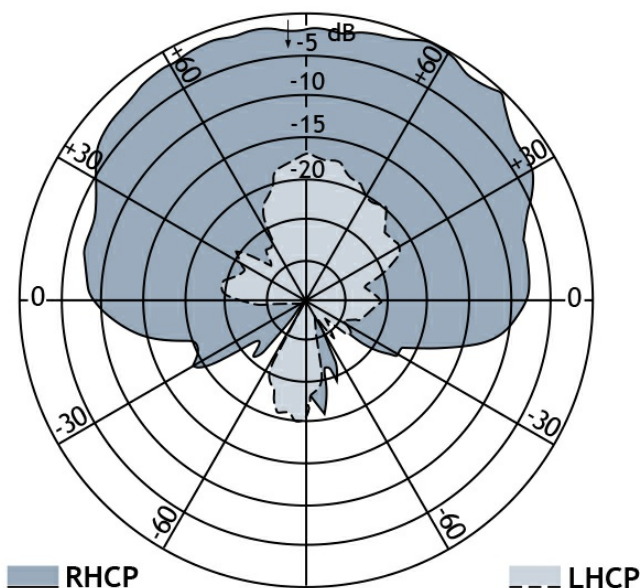
CABLE MOUNTING



TYPICAL RESPONSE CURVES



VERTICAL RADIATION PATTERN



EU AND UK DECLARATION OF CONFORMITY

Hereby Amphenol Procom declare that the product type GPS-C 900 is in compliance with EU Directive 2014/53/EU and the UK Radio Equipment Regulations 2017 (S.I. 2017 No. 1206). The full text of the Declaration of Conformity is available at:

<https://amphenolprocom.com/images/shop/catalog/pdf-for-catalogues/Declaration-of-Conformity-GPS-C-1.pdf>