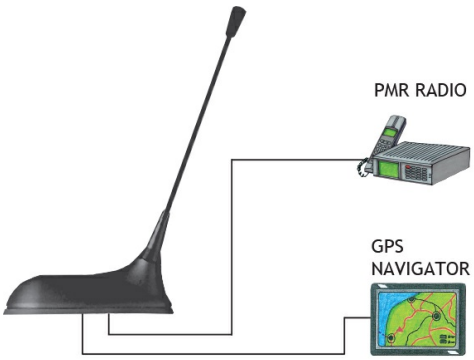
GPS Antenna with a ¼ λ Whip for the 400 MHz Band



DESCRIPTION

- External antenna whip mounted on the GPS-Combi mount.
  - Black-chromed, conical stainless steel whip.
  - Sturdy, general-purpose ¼ λ antenna of professional quality.
  - 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 Circular Polarization (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 MU 1/...
Frequency	370 - 470 MHz
Antenna Type	Mobile antenna
Max. Input Power	25 W
Polarisation	Vertical
Impedance	50 Ω
VSWR	< 1.3:1 @ f.res.
Bandwidth	≥ 60 MHz @ VSWR ≤ 2.0
Gain (EIA RS-329-1)	0 dB

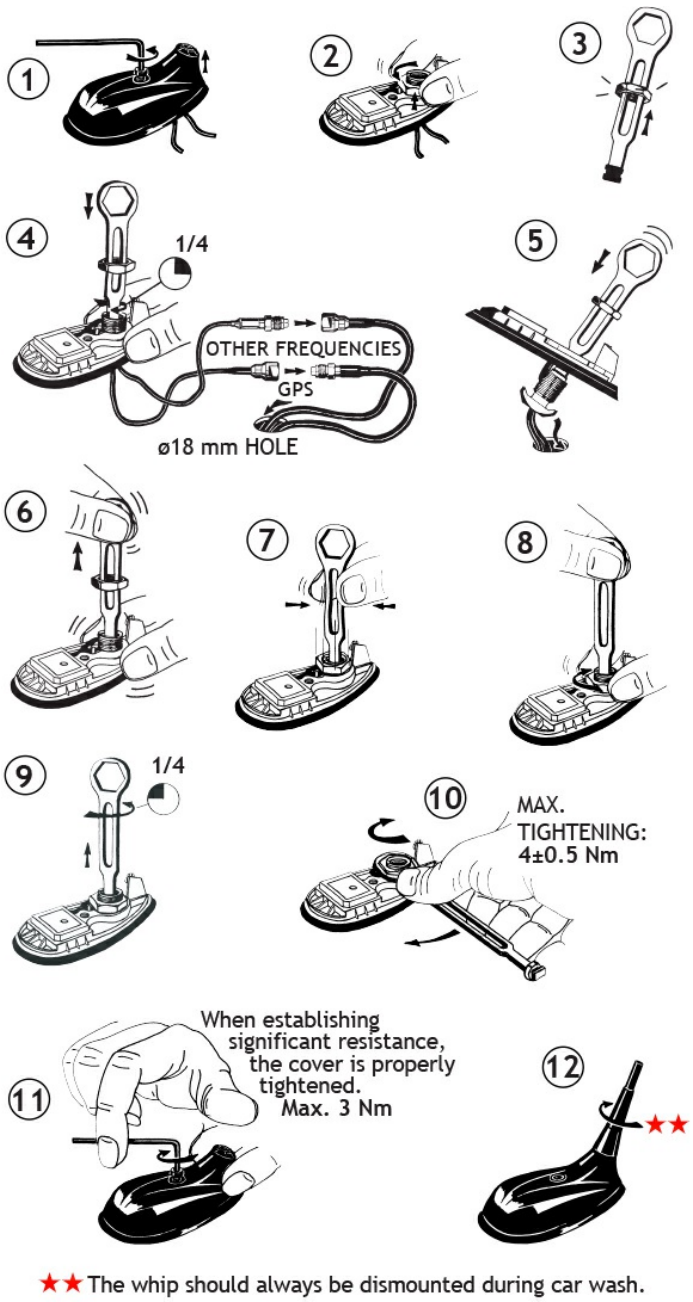
Mechanical	
Materials	Whip : Black-chromed, conical stainless steel Black-chromed brass Mount : Weather- and shockproof plastics Black-chromed brass
Colour	Black
Height	Approx. 160 mm / 6.30 in.
Weight	Approx. 0.05 kg / 0.11 lb.
Mounting	On the GPS-Combi mount

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)	ø18.0 mm dia. hole for roof thickness up to 2.0 mm ø18.5 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)	Approx. 25 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

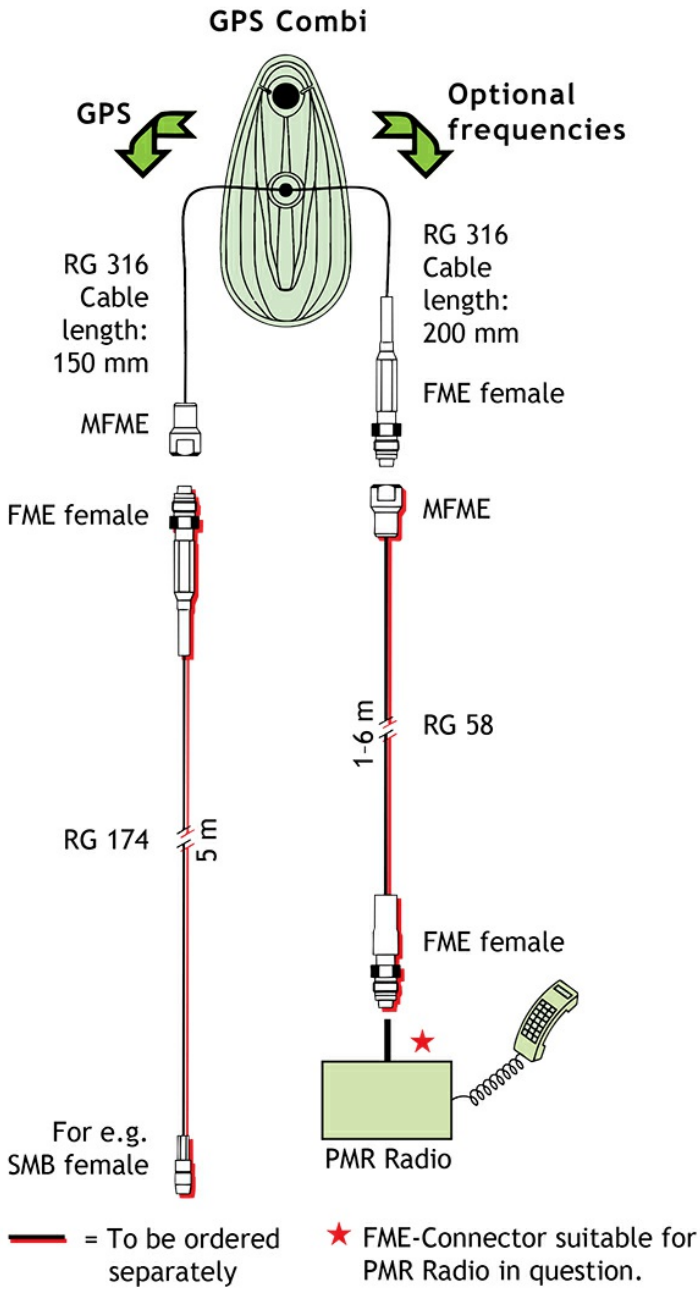
Model	Product No.
GPS-C MU 1/...	132000145

MOUNTING INSTRUCTIONS

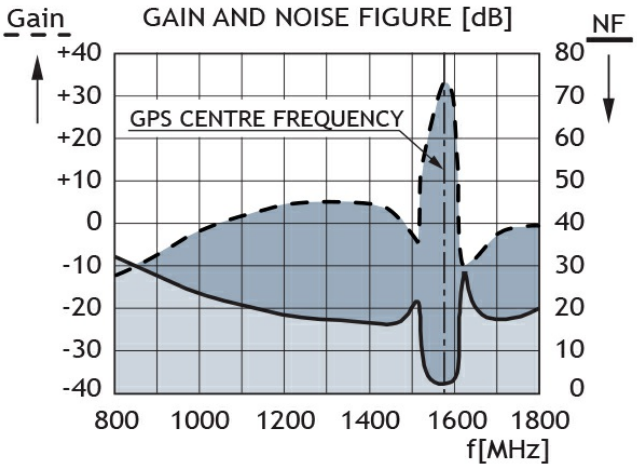


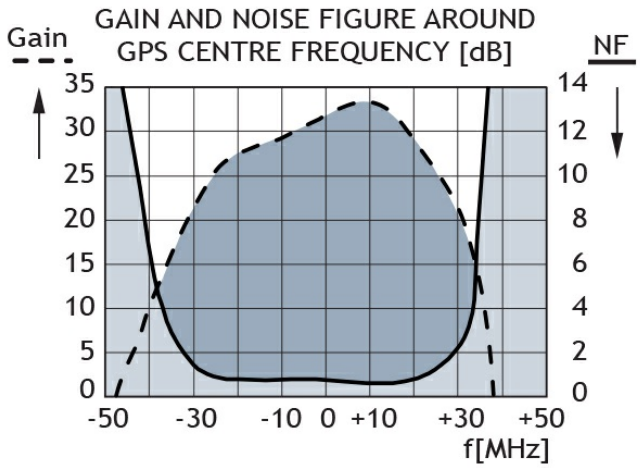
Do not use sealer on rubber gasket or other places.

CABLE MOUNTING

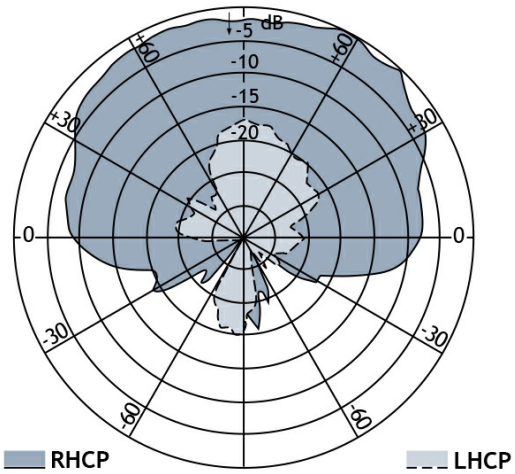


TYPICAL RESPONSE CURVES



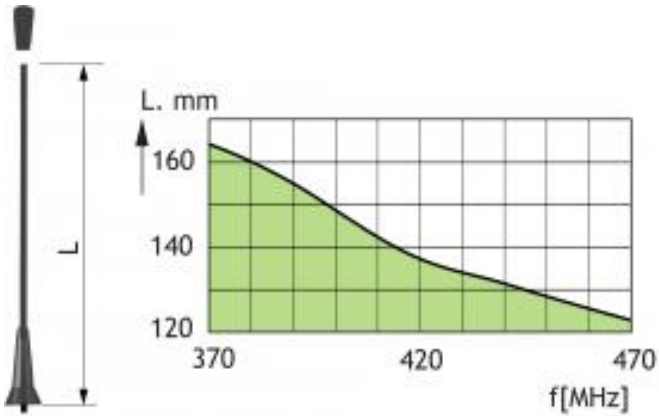


VERTICAL RADIATION PATTERN



TUNING

The antenna should always be tuned using an VSWR-meter. The cutting diagram below serves as a guide for this procedure.



EU DECLARATION OF CONFORMITY

Hereby Amphenol Procom declare that the product type GPS-C MU 1/... 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-catalouges/Declaration-of-Conformity-GPS-C-2.pdf