UHF/VHF-Antennas - WAT410/435 Series

WAT410/435 0.5M / FME(M) SERIES

UHF low-profile antenna for the frequency range 410 - 430 MHz

The WAT410/435 antenna is specially designed for the application of traffic light priority in public transport in the Netherlands. Many of our customers use this antenna on busses to communicate with the traffic lights via UHF radio and switch them to green when a vehicle approaches. The housing is designed to withstand high levels of exposure to environmental conditions while maintaining functionality. The antenna does not require metal base plate and is standard for mounting on non-metallic surfaces.

- UHF low-profile antenna for the frequency range 410 – 430 MHz
- Specially developed for public transport for traffic light priority
- Can also be used under difficult environmental conditions
- High antenna performance in the specified frequency range

MODELLE	DESCRIPTION	ANTENNA CONNECTOR	ANTENNA CABLE
WAT410/435 0.5m / FME(m)	UHF roof mounting antenna for 410 - 430 MHz	FME (m)	0.5 m (C35)

CAT-WAT410/435-V2.0 EN ed. 06/2021 Welotec GmbH

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PRODUCT FEATURES

Omnidirectional antenna

Omnidirectional radiation characteristic ideal for most applications.

Public Transport

Specially developed for public transport for traffic light priority.

Frequency range

This antenna offers 410 - 430 MHz frequency range

Antenna gain

0 dBi antenna gain.

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SPECIFICATIONS

	WAT410/435 0.5M / FME(M)
Antenna elements	1 x UHF
Frequency range	410 - 430 MHz
Antenna gain	0 dBi
Antenna cable	0.5 m (C35)
Antenna connector	FME(m)
Compatible with	UHF-Frequency

GENERAL INFORMATION	
Antenna type	UHF/VHF-Antenna
Construction type	Low-Profile Antenna
Application area	Indoor/Outdoor
Radiation characteristic	Omnidirectional
Integrated Antenna elements	1 x UHF
Groundplane needed?	Yes
License-free ISM bands	433 MHz range
Gain (typical)	0 dBi
VSWR	<2.5:1
ELECTRICAL CHARACTERISTICS	
Transmission power (max)	100 W
Impendance	50 Ohm
Polarization	Vertikal
PHYSICAL CHARACTERISTICS	
Material	ASA
Dimensions	160 x 42 mm (diameter x height)
Protection class	IP66
Mounting options	Screw mounting
Operating temperature range	-40 - +80°C

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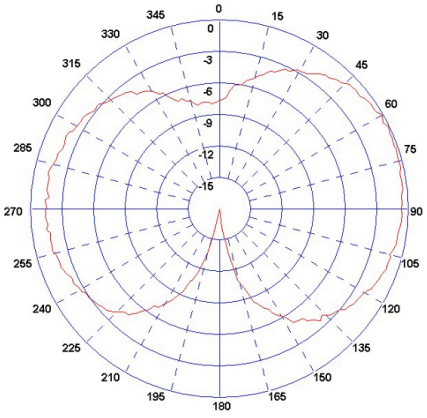
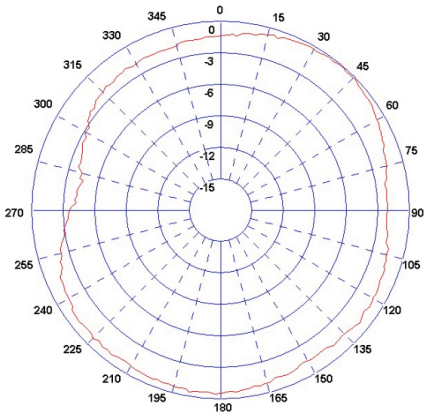
RADIATION PATTERN

Typical E-Plane (420MHz)

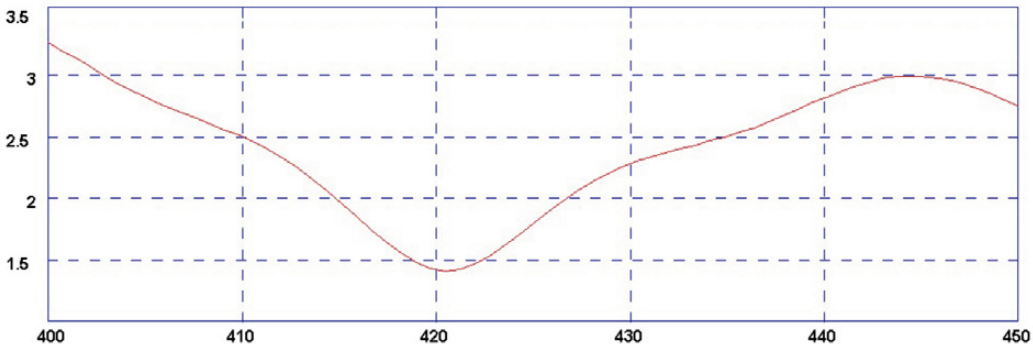


Typical H-Plane (420MHz)



VSWR

Typical VSWR (420MHz)*



* Measurement taken in free space with 5m of CS23 cable

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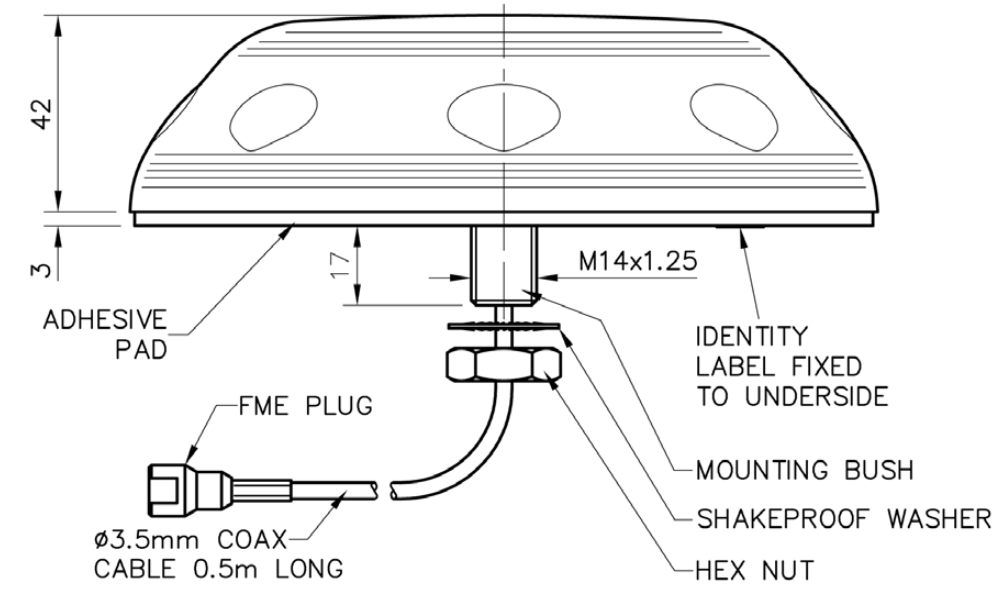
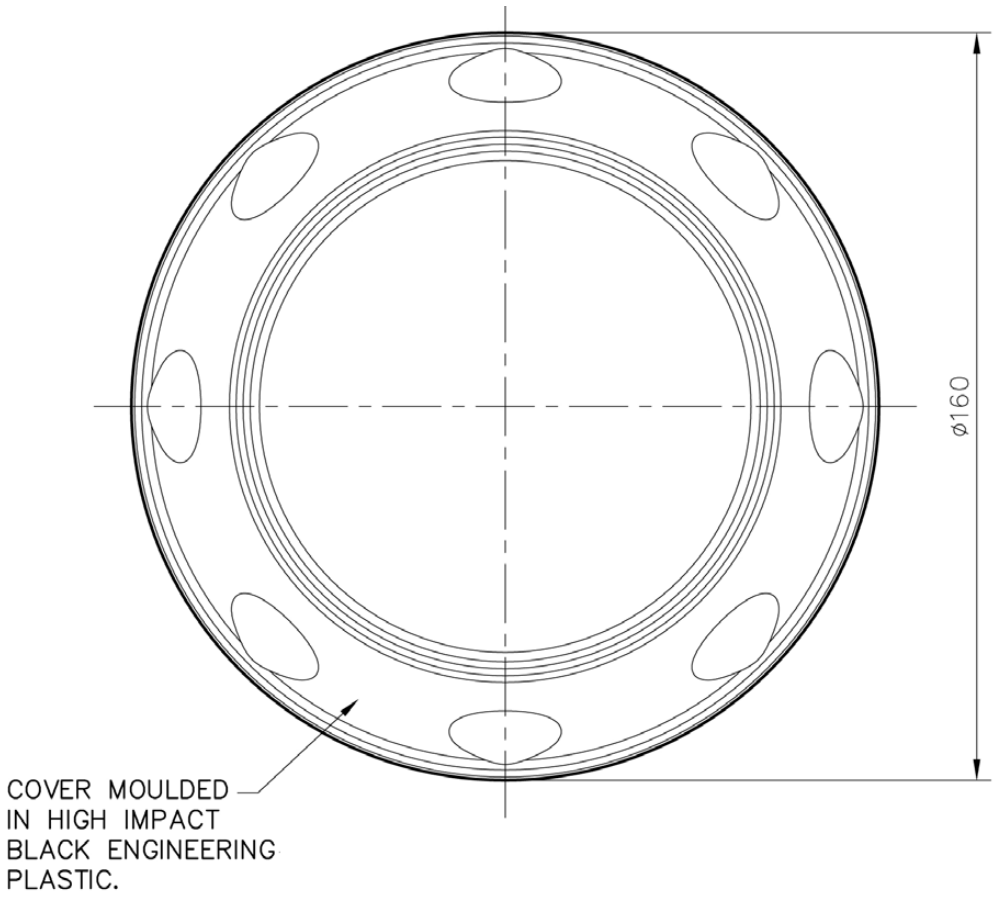
PRODUCT DIMENSIONS (MM)





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ACCESSORIES ANTENNA CABLE

Antenna cable - Configurator
With the Welotec cable configurator it is easy, to find the right coax cable for your needs.
Choose your desired cable from a large selection on cable types and combine it with the suitable connection.

Available connections:
SMA, RP-SMA, TNC, RP-TNC, BNC, N
Available cable types:
RG174, RF195, Aircell 5, RG58, RG223, H155 PE, Aircell 7

PRODUCT IMAGES

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