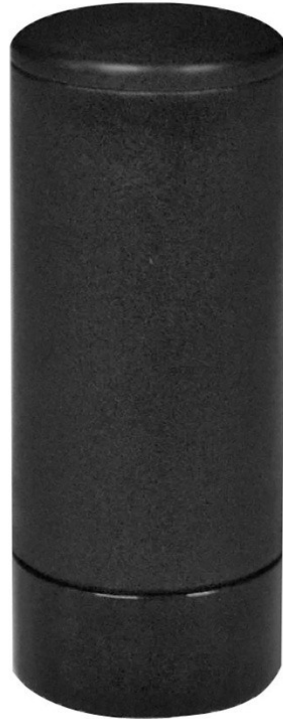


PCTEL® UHF/VHF-Antennas - MLPV450-NL Series

MLPV450-NL SERIES



UHF-Antenna for the frequency range from 450 - 512 MHz

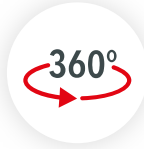
The MLPV450-NL is a low-profile UHF antenna from PCTEL® with multiple mounting options. Using the listed accessories, this antenna can be mounted on wall surfaces, on masts, on metallic surfaces via magnetic base mountings or via cable glands in a housing. This makes the MLPV450-NL suitable for any application requiring a high performance omnidirectional radiator in the frequency range 450 - 512 MHz. During the development of this antenna special emphasis was placed on robustness and antenna performance so that the antenna can be used in applications in harsh environments or under poor reception conditions. The Antenna has a universal plug as standard, which can be connected to the can be provided with mounting options. These are then combined with antenna cables from our cable configurator.

- UHF-Antenna for the frequency range from 450 - 512 MHz
- Robust low-profile design even for applications under difficult environmental conditions
- High antenna performance and efficiency in the specified frequency range
- Various mounting options for wall, magnetic base, pole or screw mounting

MODELLE	DESCRIPTION	ANTENNA CONNECTOR	ANTENNA CABLE
MLPV450-NL	Low-profile UHF antenna for the frequency range 450 - 512 MHz	Universal Plug	See accessories table or cable configurator

PCTEL® UHF/VHF-Antennas - MLPV450-NL Series

PRODUCT FEATURES



Omnidirectional antenna

Omnidirectional radiation characteristic ideal for most applications.



Frequency range

This antenna offers 450 - 512 MHz frequency range.



Antenna gain

0 dBi antenna gain.



IP67 protection

Suitable for outdoor use with IP67 protection against water and dust.

PCTEL® UHF/VHF-Antennas - MLPV450-NL Series

SPECIFICATIONS

MLPV450-NL	
Antenna elements	1 x UHF
Frequency range	450 - 512 MHz
Antenna gain	0 dBi
Antenna cable	Flexible, see table or cable configurator!
Antenna connector	Basic version Universal Plug, flexible, see table or cable configurator!
Compatible with	UHF frequencies

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
Gain (typical)	0 dBi
VSWR	<2.0:1

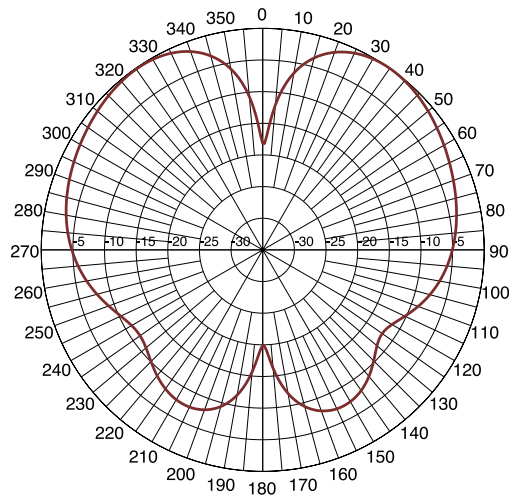
ELECTRICAL CHARACTERISTICS	
Transmission power (max)	100 W
Impedance	50 Ohm
Polarization	Vertikal

PHYSICAL CHARACTERISTICS	
Material	XENOY 5720U-7014, UV-stable
Dimensions	38.1 x 85.9 mm (diameter x height)
Protection class	IP67
Mounting options	Screw mounting, Wall mounting, Magnetic foot mounting, Pole mounting
Operating temperature range	-40 - +85°C

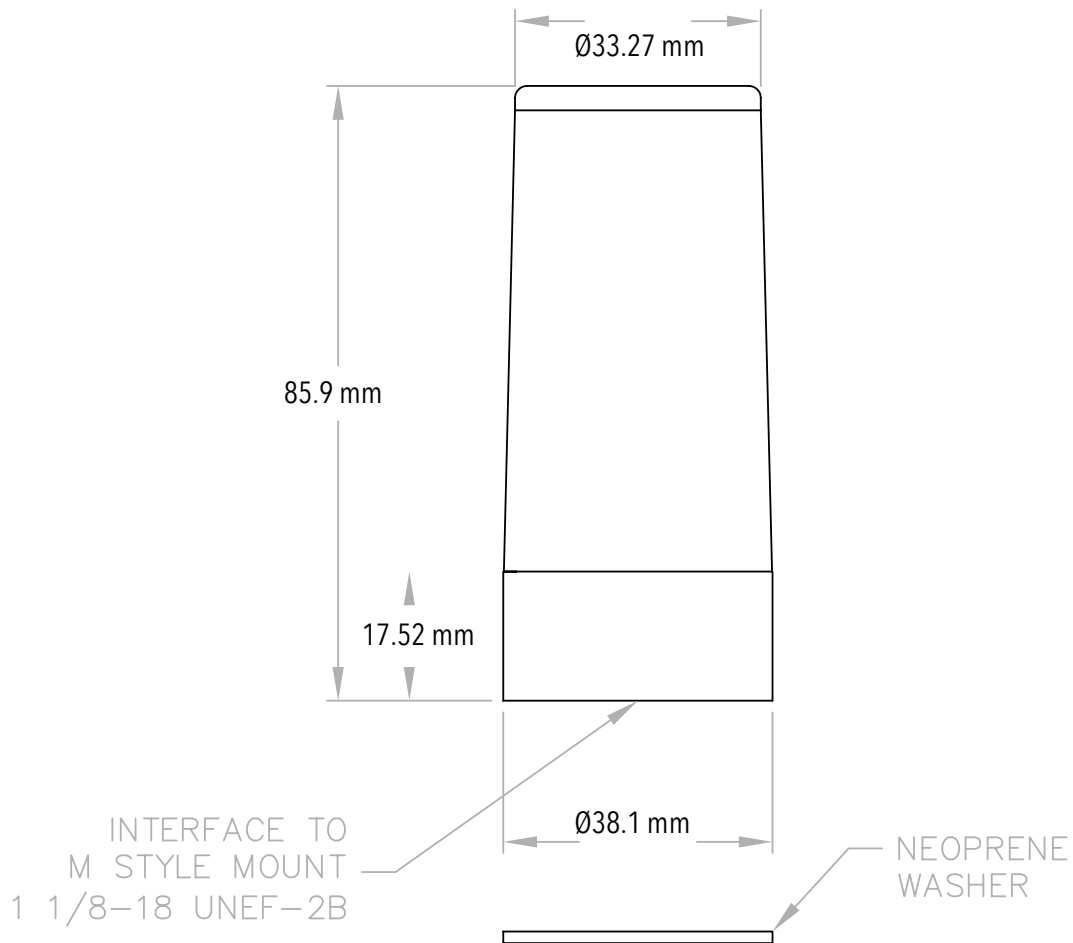
PCTEL® UHF/VHF-Antennas - MLPV450-NL Series

RADIATION PATTERN

MLPV430 - Elevation



PRODUCT DIMENSIONS (MM)



PCTEL® UHF/VHF-Antennas - MLPV450-NL Series

ACCESSORIES

DESCRIPTION	CHARACTERISTICS	ORDER CODE
Antenna mount for mounting the antenna on magnetic surfaces such as switch cabinets or on vehicle roofs	Antenna cable and connector: 360 cm Pro Flex Plus 195 with SMA(m), contact area 89.7 mm	GMLFML195C
Antenna mount for vandalism-proof installation of the antenna by screwing into housing or other surfaces	Vandalism-proof mounting foot for publicly accessible areas. Antenna connector N(f) directly on the mount	MVPHP
Standard antenna base for screw mounting	Mounting foot for screw mounting, antenna plug N(f) directly on the mount	MTPM80
Wall mounting bracket for mounting the antenna on vertical (outside) walls	Dimensions 60x80x50 mm, stainless steel bracket with holder for N(f) plug	WA-Mount-NF-1
Mast mounting bracket for mounting the antenna on steel tubes	Aluminium L-bracket for parallel or vertical mounting on pipes or masts. Suitable for pipes and masts with 38 - 60 mm outer diameter. Hole with 15.8 mm diameter for connectors	BAM1009
Magnetic base mounting bracket for vertical, metallic surfaces	Dimensions 60x80x50 mm, stainless steel bracket with holder for N(f) plug. Strong magnet included in the set	WA-Mount-NF-3

PCTEL® UHF/VHF-Antennas - MLPV450-NL Series

ACCESSORIES



GMLFML195C
Antenna Mount
Magnetic base for mounting antennas on metallic surfaces. 360 cm Pro-Flex Plus with SMA (m) connector



MVPHP
Antenna Mount
Mounting foot for the vandalism-proof installation of antennas by means of a feed-through. Plug N (f)



MTPM800
Antenna Mount
Mounting foot for mounting antennas by means of a feed-through. Plug N (f)



WA-Mount-NF-1
Antenna Mount
Stainless steel wall mounting bracket with 16.5 mm mounting hole for antennas. The holes for wall mounting can also be used for cable ties.



BAM1009
Antenna Mount
Aluminium L-bracket for horizontal or vertical mounting on pipes or masts. Suitable for pipes and masts with 38 - 60 mm outer diameter. Hole with 15.8 mm diameter for mounting with N(f) connectors.



WA-Mount-NF-3
Antenna Mount
Stainless steel wall mounting bracket with 16.5 mm mounting hole for antennas. Mounting on metallic surfaces via enclosed magnets. The holes for wall mounting can also be used for cable ties.

PCTEL® UHF/VHF-Antennas - MLPV450-NL Series

ACCESSORIES ANTENNA CABLE

The antenna cables listed here are suitable for the mounting bases MVPHP and MTPM800.

ANTENNA CABLE TYPE / LENGTH	ANTENNAS-CONNECTION LEFT	ANTENNAS-CONNECTION RIGHT	ORDER CODE
RF195 / 50 cm	N (m)	SMA (m)	NOM00-1950050-S0M00
RF195 / 100 cm	N (m)	SMA (m)	NOM00-1950100-S0M00
RF195 / 300 cm	N (m)	SMA (m)	NOM00-1950300-S0M00
RF195 / 500 cm	N (m)	SMA (m)	NOM00-1950500-S0M00
RF195 / 1000 cm	N (m)	SMA (m)	NOM00-1951000-S0M00
RF195 / 50 cm	N (m)	TNC (m)	NOM00-1950050-T0M00
RF195 / 100 cm	N (m)	TNC (m)	NOM00-1950100-T0M00
RF195 / 300 cm	N (m)	TNC (m)	NOM00-1950300-T0M00
RF195 / 500 cm	N (m)	TNC (m)	NOM00-1950500-T0M00
RF195 / 1000 cm	N (m)	TNC (m)	NOM00-1951000-T0M00



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