Antennas for
860 - 1100 MHz

ORDER NUMBER	TYPE
WS 600 43 18	3 dB omnidirectional
WS 600 84 15	omnidirectional
WS 601 24 18 5	dipole for mast and wall mounting
WS 6 .. 24 1. 5	2 - 41 element yagis, with radomes
WS 780 22 31 3	logper antenna 0.8 - 3 GHz

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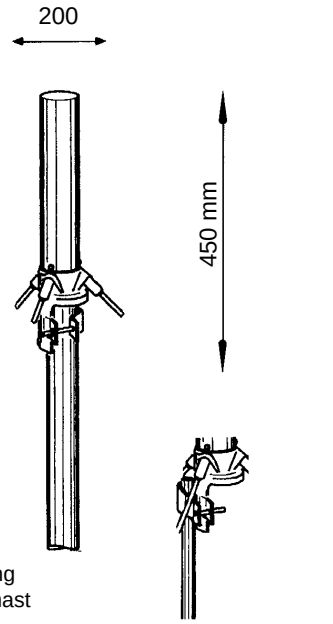
6 dB OMNIDIRECTIONAL ANTENNA
WS 600 63 18
850 - 1000 MHz

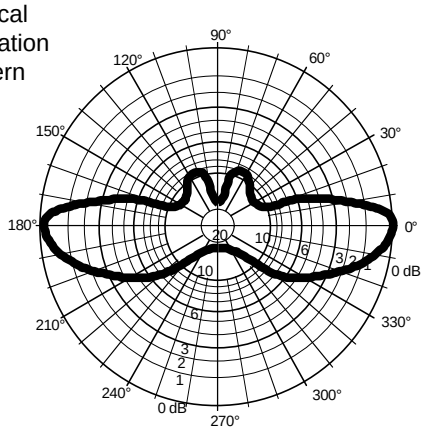


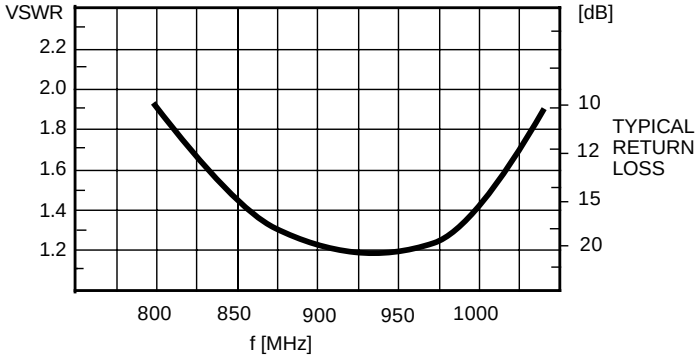
cable running inside the mast

cable running outside the mast

TYPE NO.	**WS 600 63 18: 850 - 1000 MHz** further frequencies on request
DESCRIPTION	antenna with radome The radome protects the antenna from environmental influences, icing, and increases the lightning protection. colour of the radome: black or white
POLARIZATION	vertical
IMPEDANCE	50 Ω nominal
GAIN	6 dB (ref. λ/2 dipole)
VSWR	< 1.3, at the limits of the band <1.4
POWER	max. 150 watts, other power on request
3 dB BEAMWIDTH	horizontal, H plane: 360° vertical, E plane: 30°
TERMINATION	~ 1 m cable ending with N male the cable must NOT be shortened (transformer) other termination on request
GROUNDING	radiator not DC grounded
MOUNTING	to 40 - 66 mm mast cable running inside or outside the mast
MATERIAL	aluminium, bolts of stainless steel, weather-resistant plastics, radome of UV-stabilized polyethylene
WEIGHT	0.9 kg
WIND AREA	0.025 m^2
WIND LOAD	30 N (150 km/h) 25 N (130 km/h)

Vertical Radiation Pattern





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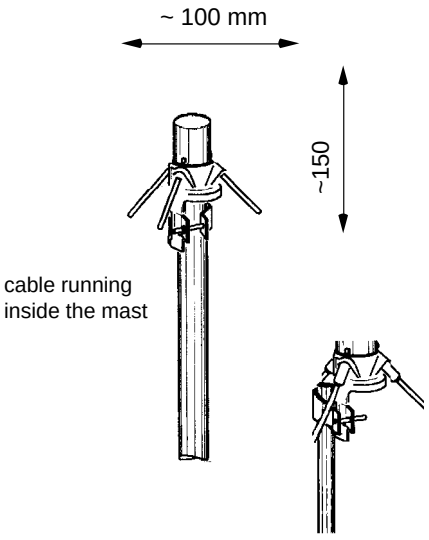
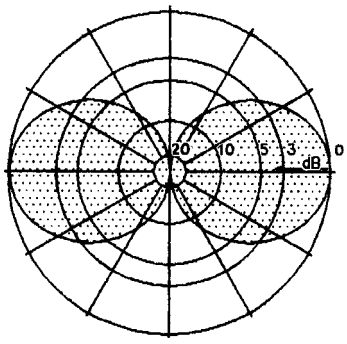
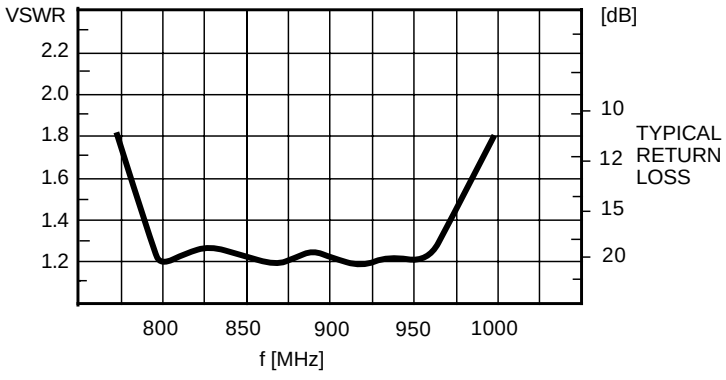
OMNIDIRECTIONAL ANTENNA
WS 600 84 15
780 - 960 MHz



TYPE NO.	**WS 600 84 15: 780 - 960 MHz** further frequencies on request
DESCRIPTION	antenna with radome The radome protects the antenna from environmental influences, icing, and increases the lightning protection. colour of the radome: black or white
POLARIZATION	vertical
IMPEDANCE	50 Ω
GAIN	0 dB (ref. λ/2 dipole)
VSWR	< 1.3, at the limits of the band <1.5
POWER	max. 150 watts
3 dB BEAMWIDTH	horizontal, H plane: 360° vertical, E plane: 78°
TERMINATION	~ 1 m cable ending with N male the cable must NOT be shortened (transformer) other termination on request
GROUNDING	all metal parts are DC grounded
MOUNTING	to 40 - 66 mm ø mast cable runs inside or outside the mast
MATERIAL	aluminium, bolts of stainless steel, weather-resistant plastics, radome of UV-stabilized polyethylene
WEIGHT	1.2 kg
WIND AREA	0. 018 m^2
WIND LOAD	23 N at 150 km/h 17 N at 130 km/h

Vertical
Radiation
Pattern
E Plane





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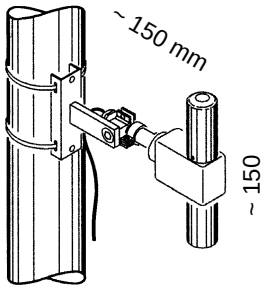
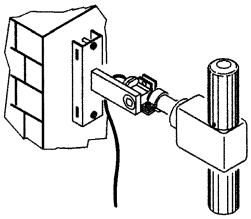
DIPOLE FOR MAST OR WALL MOUNTING
WS 601 24 18 5
860 - 950 MHz

mast mounting

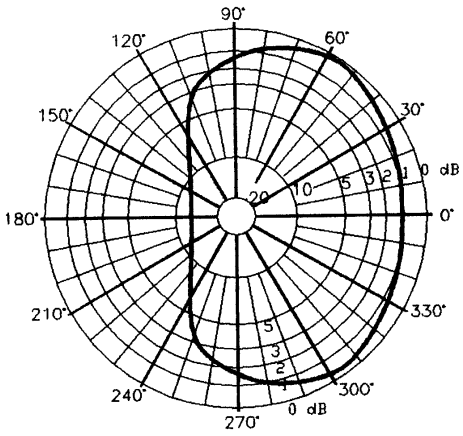


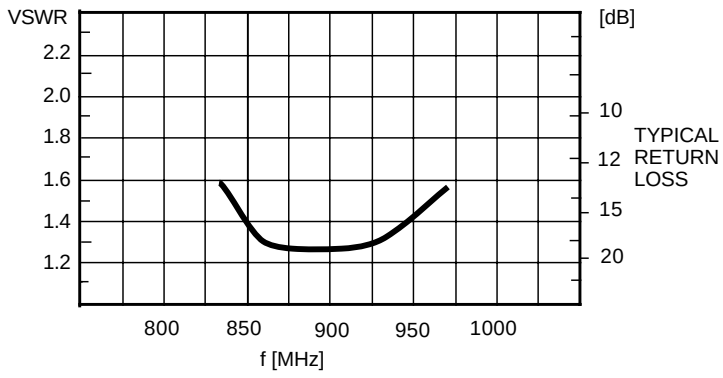


wall mounting

TYPE NO.	**WS 601 24 18 5: 860 - 950 MHz** further frequencies on request
DESCRIPTION	with radome The radome protects the antenna dipole from environmental influences, icing, and increases the lightning protection.
IMPEDANCE	50 Ω nominal
GAIN	mast mounting: 3 dB (ref. to a λ/2 dipole) wall mounting: 0 - 6 dB (ref. λ/2 dipole), depends on wall material
VSWR	< 1.3, at the limits of the band <1.4
POWER	max. 150 watts
3 dB BEAMWIDTH	mast mounting: 200° wall mounting: depends on wall material
TERMINATION	1 m cable RG 303 ending with N male other termination on request
GROUNDING	all metal parts are DC grounded
MOUNTING	on walls
MATERIAL	aluminium, optaloy treated brass, bolts of stainless steel, weather-resistant plastics, radome of UV-stabilized polyethylene
WEIGHT	0.7 kg
WIND AREA	0.02 m²
WIND LOAD	25 N (150 km/h) 19 N (130 km/h)

Horizontal
Radiation Pattern
H-plane
(mast mounting)





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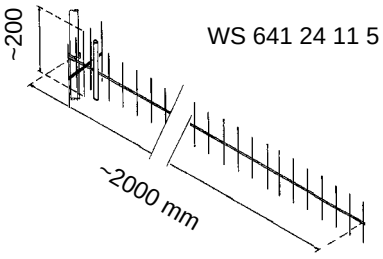
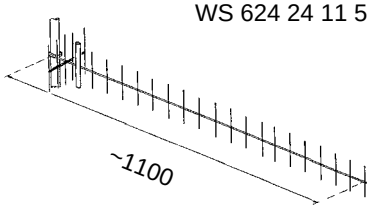
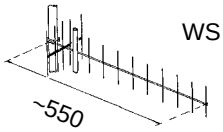
YAGI ANTENNAS
WS 6.. 24 1. 5
850 - 960 MHz



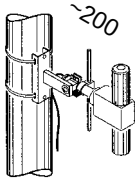
WS 641 24 11 5

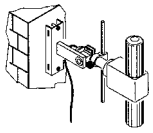


WS 624 24 11 5



WS 615 24 11 5




WS 602 24 18 5

TYPE NO.	GAIN dBd	3 dB ANGLE H-	E-plane	CLAMP (standard)
WS 602 24 18 5	4	130⁰	66⁰	WG 23
WS 615 24 11 5	10	54⁰	44⁰	WG 11
WS 624 24 11 5	13	39⁰	35⁰	WG 11
WS 641 24 11 5	15	32⁰	33⁰	WG 11

POLARISATION vertical (horizontal on request)

FREQUENCIES further frequencies on request

DESCRIPTION dipole with radome
The radome protects the antenna dipole against environmental influences, iceing and increases the lightning protection.

IMPEDANCE 50 Ω

GAIN ref. to λ/2 dipole (type 602 .. mast mounting)
f/b< 25 dB (types 615 .., 624.., 641..)

VSWR < 1.3, at the limits of the band < 1.5

POWER max. 150 watts, higher power on request

TERMINATION 1 m cable RG 303/U ending with N male
other termination on request

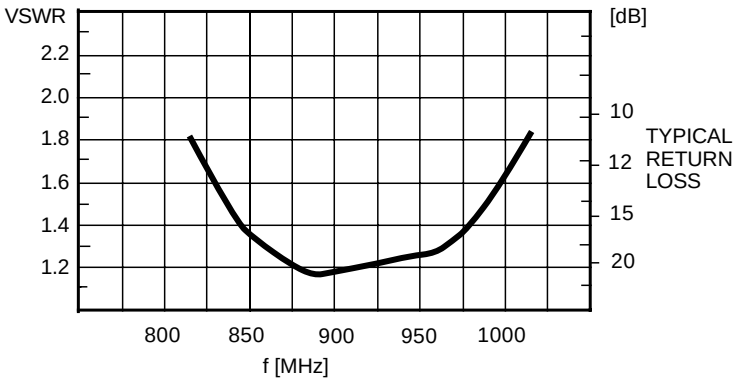
GROUNDING connector shows a DC-short

MOUNTING

clamp (*see chapt. 10)*	*mast ø*
WG 11 (standard)	30 - 80 mm
WG 12 (option)	50 - 104 mm
WG 23	mast and wall mounting

MATERIAL aluminium, bolts of stainless steel, radom of UV-stabilized polyethylene

WEIGHT 0.5 - 2 kg
WIND AREA 0.015 - 0.1 m²
WIND LOAD 20 - 130 N at 150 km/h



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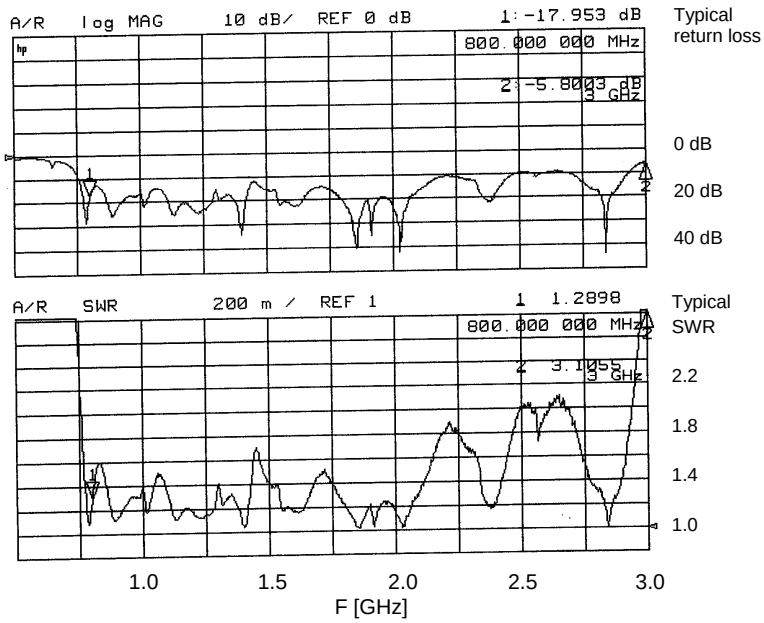
14-Element Log-Periodic Antenna
WS 780 22 31 3
0.8 - 3 GHz

TYPE NO	WS 780 22 31 3 : 0.8 - 3 GHz
POLARIZATION	horizontal / vertical
IMPEDANCE	50 Ω
GAIN	6.4 dBi, 4.2 dBd at 1 and 2 GHz
VSWR	< 2.2 (0.8 - 2.8 GHz)
POWER	100 W
3 dB BEAMWIDTH mid-band	in polarization, E plane: 63° vertical to pol., H plane: 103°
TERMINATION	N female other termination on request
GROUNDING	all metal parts are DC grounded
MOUNTING	*mast Ø* — *clamp (see chapt. 10)* 20 - 80 mm — WG 11 (standard) 50 - 104 mm — WG 12 (option)
MATERIALS	aluminium, stainless steel weather resistant plastics
WEIGHT	710 g
WIND AREA	0.01 m^2
WIND LOAD	9 N at 130 km/h 12 N at 150 km/h
DIMENSIONS (LxW)	400 x 196 mm



Typical return loss

Typical SWR

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