

ATEX certified, 0 dBd, Omnidirectional Base Station Antenna for the International 118 - 137 MHz Band in Hazardous areas

DESCRIPTION

- CXL 130-1LW-SS-Ex is a 0 dBd, vertically polarized, omnidirectional base station antenna witch covers the 118 - 137 MHz band in Hazardous areas.
- The antenna is specified as an ATEX antenna for use in zone 2 in potentially explosive areas
- > Before installing the antenna, please read the ATEX Product Manual carefully.
- The antenna is suitable for use in gas groups IIA, IIB and IIC in zone 2.
- It's only necessary to install an ATEX grounding Kit on the LW-SS-Ex bracket, when the point of installation has a different electrical potential than the system.
- \blacktriangleright The antenna is a broad-banded $1\!\!/_2$ λ dipole design.
- > The accompanying U-bolts and fittings are made of stainless steel.
- > The antenna element is sealed in high-quality glass fibre tube.
- All metal parts in the antenna are DC-grounded. Consequently, the antenna shows a DC-short across the coaxial cable.



ORDERING

	Туре	Product No.
	CXL 130-1LW-SS-Ex	115000001
	ATEX grounding kit	115000100

SPECIFICATIONS

Electrical	
Model	CXL 130-1LW-SS-Ex
Frequency	118 - 137 MHz
Antenna Type	Coaxial dipole, broad-banded
3 dB Beamwidth, H-Plane	Omnidirectional
Polarisation	Vertical
Pattern Type	Omnidirectional
3 dB Beamwidth, E-Plane	80 °
Impedance	50 Ω
Gain	0 dBd (2.2 dBi)
VSWR	< 1.75:1
Bandwidth	19 MHz
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	

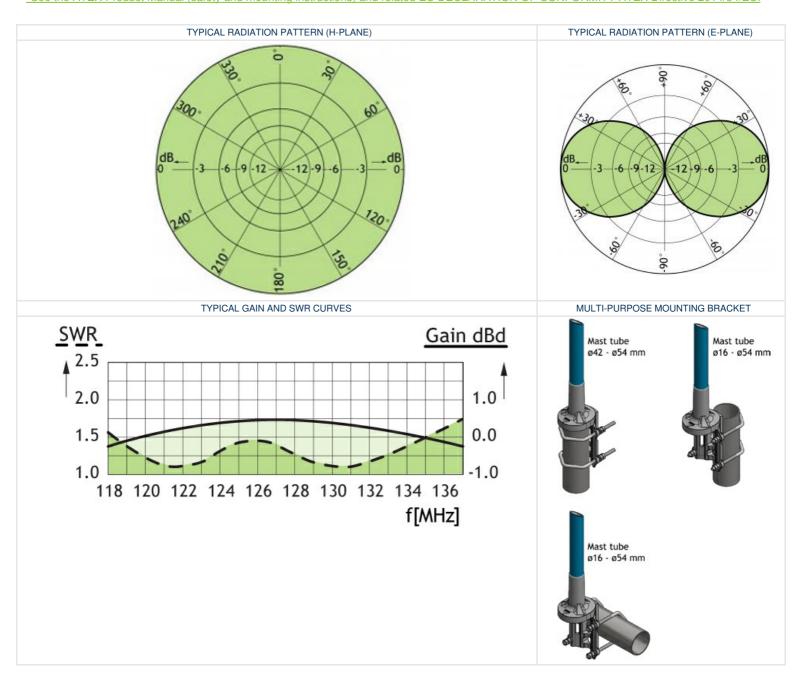
Mechanical		
Connector Torque	N-female 0.7 - 1.1 Nm	
Wind Area	0.023 sq. m / 0.25 sq. ft	
Materials	Radome: Polyurethane-coated glass fibre Mounting bracket: Stainless acid-proof steel (AiSi 316L) U-bolt and fittings: Stainless steel (AiSi 304L)	
Installation Torque	On 16 to 54 mm / 0.63 - 2.13 in. dia. mast tube - 3 Nm	
Colour	Blue (RAL +5015)	
Height	1500 mm / 59.06 in.	
Wind Load	29 N (160km/h)	
Dia. At Top End	17 mm / 0.67 in.	
Weight	1.25 kg / 2.76 lb	
Dia. At Bottom End	23 mm / 0.91 in.	
ATEX Marking	II 3G Ex nA IIC T6	

Environmental			
Operating Temperature Range	-30°C to +60°C		
Survival Wind Speed	200 km/h		
Ingress Protection	IP66		



ADDITIONAL DATA

*See the ATEX Product Manual (safety and mounting instructions) and related EU DECLARATION OF CONFORMITY ATEX Directive 2014/34/EU.



CALCULATION OF MAX. ANTENNA INPUT POWER IN DIFFERENT ATEX GROUPS

ATEX GROUP	MAX. EIRP POWER	ANTENNA GAIN	MAX INPUT POWER
IIA	37.7 dBm (6.0 W)	0 dBd / 2.15 dBi	35.6 dBm (3.6 W)
IIB	35.4 dBm (3.5 W)	0 dBd / 2.15 dBi	33.3 dBm (2.1 W)
IIC	33.0 dBm (2.0 W)	0 dBd / 2.15 dBi	30.8 dBm (1.2 W)