# ATEX certified, 3 dBd, Omnidirectional Base Station Antenna for the 146 - 174 MHz Band in Hazardous areas

#### DESCRIPTION

- CXL 150-3LW-SS-Ex is a 3 dBd, vertically polarised, omnidirectional base station antenna, which covers the VHF-band.
- The antenna is specified as an ATEX antenna for use in zone 2 in potentially explosive areas.
- $\ge$  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.
- > The accompanying U-bolts and fittings are made of stainless steel.
- The carefully designed, broad-banded antenna element is sealed in a high-quality glass fibre tube with low wind-load, which will ensure performance undisturbed by corrosive environments.
- All metal parts in the antenna are DC-grounded. Consequently, the antenna shows a DC-short across the coaxial cable.



### ORDERING

Туре	Product No.	Frequency
ATEX grounding kit	115000100	
CXL 150-3LW-SS-Ex	115000018	146 - 174 MHz

#### SPECIFICATIONS

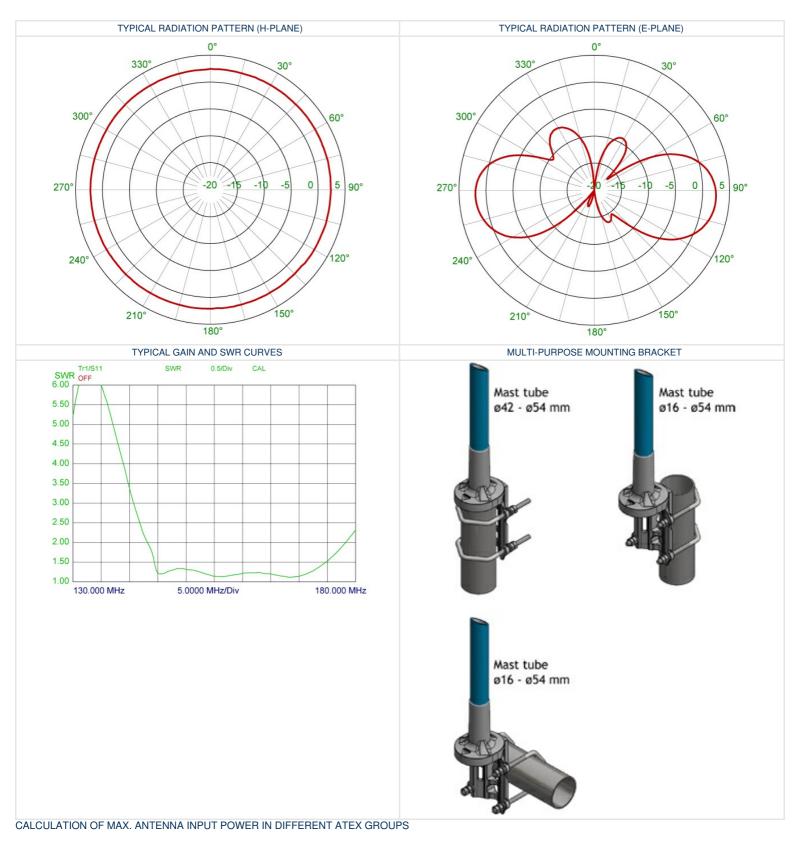
Electrical					
Model	CXL 150-3LW-SS-Ex				
Frequency		146 - 174 MHz			
Antenna Type		Broad-banded collinear antenna			
3 dB Beamwidth, H-Plane		Omnidirectional			
Polarisation		Vertical			
Pattern Type		Omnidirectional			
3 dB Beamwidth, E-Plane		40 °			
Impedance		50 Ω			
Gain		3 dBd (5.2 dBi)			
VSWR		< 1.5:1			
Bandwidth		28 MHz			
Antistatic Protection		All metal parts DC-grounded (Connector shows a DC-short)			
HCM Code(s)					
Mechanical					
Connector Torque	0.7 - 1.1 Nm				
Wind Area	0.0651 m² / 0.70 ft²				
Materials	Radome: Polyurethane-coated glass fibre Mounting bracket: Stainless acid-proof steel (AISI 316L) U-bolt and fittings: Stainless steel (AISI 316)				
Installation Torque	3 Nm				
Colour	Blue				
Height	Approx. 2.7 m / 106.3 in.				
Wind Load	97 N (160km/h)				
Diameter	25.5 mm / 1.00 in.				
Weight	2.1	2.1 kg / 4.63 lb.			
Mounting	On	On 16 to 54 mm / 0.63 x 2.13" dia. mast tube			
ATEX Marking	II 3	II 3G Ex nA IIC T6			
Environmental					
Operating Temperature Range -30 to 60 °C			-30 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.





ATEX GROUP	MAX. EIRP POWER	ANTENNA GAIN	MAX INPUT POWER
IIA	37.7 dBm (6.0 W)	3 dBd / 5.15 dBi	32.6 dBm (1.8 W)
IIB	35.4 dBm (3.5 W)	3 dBd / 5.15 dBi	30.3 dBm (1.0 W)
IIC	33.0 dBm (2.0 W)	3 dBd / 5.15 dBi	27.8 dBm (0.6 W)