



Hazardous Location Telemetry Equipment™

10178 International Blvd
 Cincinnati, Ohio 45246
 Phone: 513-860-5465
 Fax: 513-860-5464
 www.Solexywireless.com

Explosion-Proof Antenna Coupler Product Specification

AXF™ UL Version

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AXF™ Explosion-Proof Antenna Coupler

Solexy's patented (7,057,577) Explosion-Proof Antenna Coupler permits the installation of most passive antennas in hazardous areas. This coupler is designed to be used directly with listed explosion proof housings or conduit fittings. An integrated blocking circuit prevents potentially hazardous energy from reaching the antenna in case of radio, modem, or access point failure. It also allows for antenna removal in hazardous areas. The coupler's robust design allows for connection to practically any radio and antenna. It is a highly flexible and cost effective solution to hazardous area radio system deployment.



Specifications

General		
Approximate weight	0.5 lb (0.23 kg)	
Housing material	300 Series Stainless Steel	
Ambient Temperature Range	-40°C to +85°C (subject to end product evaluation)	
Certification		
CUR; USR (UL) Recognized Component	Rating: Class I, Div. 1, Group A, B, C, D Class II Div. 1 F&G File #: E303346 Vol. 2	
Maximum Fault Voltage	250 VDC, 250 VAC 50-60 Hz	
Maximum Antenna Power Output	2 Watts or 33 dB (subject to end product evaluation)	
Electrical		
Maximum Capacitance	5.64 nF	
Frequency Range	260 to 2483 MHz	
Impedance	50 Ohms	
Approximate Signal Attenuation (Note 1)	Model AXF	Model AXN
@ 425 MHz	0.3 dB	0.3 dB
@ 915 MHz	0.6 dB	0.6 dB
@ 2.4 GHz	1.3 dB	1.5 dB
@ 5.8 GHz	4.8dB	3.9dB

Notes:

1. Values shown for 18" (457mm) coaxial cable and standard RP-SMA connectors (no adapter).

Features

- 1) **Short Circuit Protection** - Includes integrated blocking circuitry.
- 2) **No Sealing Fitting Required** - Fitting is pre-approved for hazardous locations and can be installed with a simple wrench.
- 3) **Environmental Protection** - 300 series stainless steel construction and integral potting protects electronics from corrosive environments.
- 4) **Flexibility** - permits a wide variety of passive antennas to be installed in hazardous areas. Antennas may be removed and/or installed with power on.
- 5) **Component Certification** simplifies the required radio system certification process by eliminating or significantly reducing the tests required for evaluation.