

B00004-00

Antenna couplers

# AW SERIES



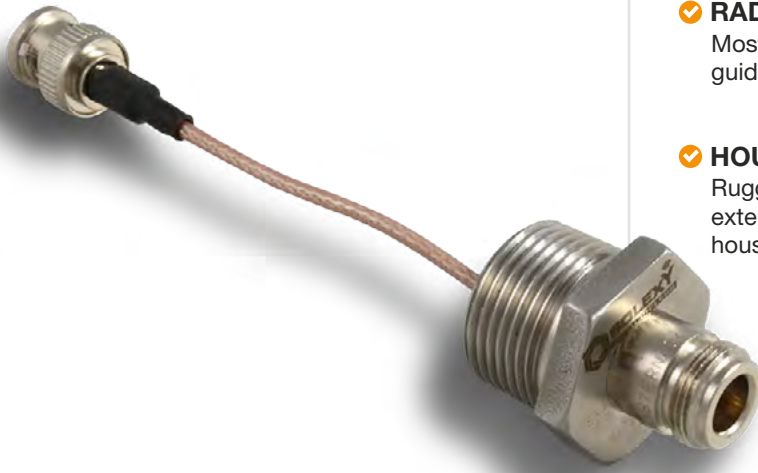
Solexy's Weather-Proof Antenna Coupler permits the installation of passive antennas in outdoor and hose down areas.

This coupler is designed to be used directly with any weatherproof (IP67, Nema 4, or 4X) housings or conduit fittings.

An internal epoxy encapsulate ensures no moisture ingress from the external environment.

The coupler's robust design allows for connection to practically any radio and antenna.

It is a highly flexible and cost effective solution to environmentally challenging radio installations.



## FEATURES

- ✔ **ENVIRONMENTAL PROTECTION**  
300 series stainless steel construction or nickel plated brass and integral potting protects electronics from corrosive environments.
- ✔ **FLEXIBILITY**  
Permits a wide variety of passive antennas to be installed.
- ✔ **ANTENNA CONNECTION**  
Type N female, RP-SMA female, BNC female or TNC female connection available for antenna connection.
- ✔ **RADIO CONNECTION**  
Most all 50 Ω connections are available (see ordering guide)
- ✔ **HOUSING CONNECTION**  
Rugged 3/4" NPTm, 1/2" NPT-m, M25x1.5 or M20x1.5 external threads are available for connection into housing or enclosure.

## NOMENCLATURE

- aaa Antenna Coupler**
- AWF RP-SMA Female antenna connection
  - AWN N Female antenna connection
  - AWB BNC Female antenna connection
  - AWTA TNC Female antenna connection

- b Thread Connection**
- 2 1/2" NPT male
  - 3 3/4" NPT male
  - M M25x1.5
  - T M20x1.5

- cc Coaxial Connector**
- \*\* see ordering guide

- dd Coax cable length**
- 06 6" (152.4 mm)
  - 12 12" (304.8 mm)
  - 18 18" (457.2 mm)
  - 24 24" (609.6 mm) 01 RP-SMA Male

<b>AWF</b>	<b>3</b>	<b>S</b>	<b>01</b>	<b>06</b>
<b>aaa</b>	<b>b</b>		<b>cc</b>	<b>dd</b>

**\*\* Ordering guide:**

- |                  |                       |
|------------------|-----------------------|
| 02 RP-SMA Female | 13 MCX Jack Male 90°  |
| 03 SMA Male      | 15 MMCX Jack Male 90° |
| 04 SMA Female    | 16 RP-SMA Male 90°    |
| 07 N Male        | 18 SMA Male 90°       |
| 08 N Female      | 19 SMB Jack Male      |
| 09 TNC Male      | 21 RP-TNC Male        |
| 10 TNC Female    | 23 SMB Plug Female    |
| 11 BNC Male      | 24 U.FL Plug Female   |
| 12 BNC Female    | 29 N Female bulkehead |



# SPECIFICATIONS

<b>Approximate weight</b>	0.09 kg				
<b>Housing material</b>	300 Series Stainless Steel				
<b>Ambient Temperature Range</b>	-40°C +85°C				
<b>Rating</b>	10 W				
<b>Frequency Range</b>	100 MHz to 6 GHz				
<b>Impedance</b>	50 Ω				
<b>Approximate Signal Attenuation <sup>(1)</sup></b>	<b>Frequency</b>	<b>AWF</b>	<b>AWN</b>	<b>AWB</b>	<b>AWT</b>
	169 MHz	0.3 dB	0.3 dB	0.3 dB	0.3 dB
	425 MHz	0.3 dB	0.3 dB	0.3 dB	0.3 dB
	915 MHz	0.4 dB	0.6 dB	0.4 dB	0.4 dB
	2.4 GHz	0.3 dB	0.5 dB	0.3 dB	0.3 dB
	5.8 GHz	0.8 dB	0.9 dB	0.8 dB	0.8 dB

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

## DIMENSIONAL DRAWINGS

