

### Environmental & Testing

Type	Performance	Standard
Tightness	IP68 at 1m, IP69 K	IEC 60529 / MIL-STD-810F 512.4/5, DIN 40050-9
Sand and dust	Blowing sand and dust, settling dust	MIL-STD-810F 510.4/5 Procedure I / II, DIN 40050-9 / IP6kx
Operating temperature	-51° C up to +125° C	IEC 60512-6-11 i+j
Thermal shock	-65° C up to +150° C	EIA 364-32-E, IEC 60068-2-14
Humidity cyclic	85% up to 95%, 28 up to 71° C	MIL-STD-1344A Method 1002.2 Type III, IEC 60068-2-38
Low pressure (rapid decompression)	59.1kPa to 18.8kPa	AECTP 300, 312 Procedure III (STANAG 4370)
Low pressure	57.2 kPa, -55° C	MIL-STD-810F 500.4/5, IEC 60068-2-40
Icing	Rime ice 6mm	MIL-STD-810F 521.2/3
Corrosion resistance	96h salt mist, 5% salt solution, 35° C	EIA-364-26B, STANAG 4370, AECTP 300-309, MIL-STD-810F 509.4/5
Mould growth	European fungus	IEC 60068-2-10
Solar radiation		60068-2-5
Chemical endurance	Several substances, please refer to the list at <a href="http://airborn.com">airborn.com</a>	ISO 16750-5

### Mechanical data

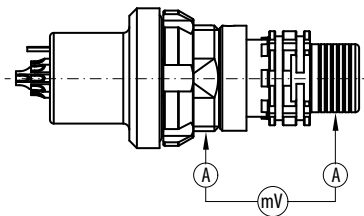
Type	Performance	Standard
Mechanical endurance	5,000 mating cycles <sup>2</sup>	IEC 60512-5-9-a, EIA-364-09
Vibration		MIL-STD 1344 Method 2005, EIA-364-28
Shock	100g amplitude, half sine pulse of 3ms, no discontinuity > 1µ	MIL-STD 1344 Method 2004, EIA-364-27

### Electrical data

Type	Performance	Standard
Contact resistance, over 5,000 mating cycles (2)	Contact diameter/resistance, ø 0.6mm pogo pin < 20mOhm"	IEC 60512-2-1
Shell resistance (fig. 1)	< 10mOhm	IEC 60512-2-1
Insulation resistance	> 100MOhm	IEC 60512-3-1

<sup>2</sup>5,000 mating cycles, dependent on the specific application.

Fig. 1  
Measurement points



Please consult the AirBorn website for the latest revision of this document prior to beginning any design work.