

Specifications of the A/N Polarized Plug AN2551

Used in: 6148, 6216, 6141, 6146

Housing: high impact plastic made by www.aircraftplugs.com

Drawings: D4263, D4264

Hardness, H358/30:	13800psi	
Tensile Strength, Ultimate:	10200psi	50mm/min
Tensile Strength, Yield:	9140psi	50mm/min
Dielectric Strength:	381kV/in	Short time 3.2mm
Vicat Softening Point:	291°F	B/50
Flammability UL94	HB	0.7mm

Contact: made with Sulfur Copper Rod HD147

Maximum continuous current capacity for contacts: 450A

Drawing: B2584

Electrical Specifications

Average contact resistance*:	62μΩ
Average change in Resistance after 100 dry cycles:	< 2μΩ
Continuous duty contact temperature rise:	
15°C	94A
30°C	133A
50°C	172A

Short duration contact temperature rise:

Duration of 1.0 minutes	15°C	300A
	30°C	420A
	50°C	545A

Dielectric Voltage Withstand Test:	>
1 min. duration	Contacts to case: > 2.0 kV
After 10 cycles.	Contact to Contact > 1.5 kV

1+min 300A on;
cool to ambient

* resistance measured thru both contacts solder cup on female and 4 cm from end on male contact.

MAXIMUM CURRENT RATING:

These are based on not damaging the plug, the housing could get very hot if ran near the Maximum.

For <10s 1600A Based on the resistance this would give less than a .1V drop per contact.

For <1min 950A Based on the Temperature this would give less than 75°C rise on the contacts.

Continuous 240A Based on the Temperature this would give less than 75°C rise on the contacts.