

Product Description

Smiths Interconnect's HPW Series is a medium density PCB connector mixing signal and power contacts in a unique frame. The HPW Series has been designed to resist to the high levels of shock and vibrations in the harshest environments of the civil and military programmes.

Available with 2 contact size versions, size 22 signal and size 16 power contacts, HPW Series uses the proven Hypertac® hyperboloid contact system renowned for eliminating contact fretting, hence reducing wear rates and avoiding system failure and down-times. These features combine with current carrying capacity up to 15 Amps and low insertion-extraction forces to provide significantly enhanced quality and reliability performance compared with other more commodity connector solutions.

Technical Characteristics

Contact Number	63, 92, 100 & 107 ways
Contact Diameter	size 22 0,75 mm nominal size 16 1.56 mm nominal
Current Rating	size 22 5 A size 16 15 A
Contact Resistance	size 22 11 mΩ (max) size 16 4.5 mΩ (max)
Contact Mating Force	size 22 0.28 N (average) size 16 0.56 N (average)
Contact Life Cycle	> 2,000
Breakdown Voltage Between Contacts	1,920 V AC (min) <i>[sea level]</i>
Dielectric Withstanding Voltage	1,400 V AC (min) <i>[sea level]</i>
Temperature Rating	-55 to +125 Degree C
Insulation Resistance	5 GΩ @ 500 V DC (min)
Insulator Material	PPS
Contact - Material - Plating (Mating surfaces)	Copper alloy MIL-G-45204 gold plated
Guide Hardware - Material - Plating	Stainless steel Passivated