

CS2020(1)(P)

Specifications

Attribute	Value
Electrical Performance Parameters	
Rated Current	13A to 25A continuous (highly dependent on the contact gauge, such as Size 16 Type III+ or equivalent copper alloy contacts).
Operating Voltage	250 V AC/DC up to 600 V AC/DC (Service rating varies by specific creepage distances between insulation barriers).
Dielectric Withstanding Voltage	1500V to 2000V AC RMS.
Insulation Resistance	5000 Megohms minimum at 500V DC.
Mechanical & Material Specifications	
Shell Size & Coupling	Size 20 thread or bayonet variant. It uses either internal or external threads with a standard threaded coupling nut to securely mate the male plug.
Housing Material	High-impact, rugged Thermoplastic or Polyamide (Nylon) conforming to a UL 94V-0 flammability rating.
Ingress Protection (IP Rating)	Environmentally sealed variants achieve IP67 / IP68 when fully mated with matching backshells, while standard commercial configurations are unsealed.
Operating Temperature Range	-55°C to +105°C (sustained thermal limits for the housing composite).
Contact Type Compatibility	Accepts crimp, snap-in, or solder-cup female socket contacts. Accommodates standard wire ranges from 14 AWG to 24 AWG depending on the installed socket tier.
Standard 4-Pin Circular Assignment Layout	
Layout	A typical 4-position clockwise circular configuration utilizes a standard layout scheme:
Pin 1	Line / Phase 1 (or DC Positive V+)
Pin 2	Neutral / Phase 2 (or Signal High)
Pin 3	Signal Common / Low
Pin 4	Chassis Ground / PE (often longer or structured to mate first for safety grounding)