

C2096 10 05MNO

Specifications

Attribute	Value
General Specifications	
Connector Type	Industrial Circular Connector / Sensor-Actuator Interface
Shell Size Reference	Size 10 (or standard M12 / M16 depending on the outer thread structure)
Contact Gender	Male Pins (Plug/Inlet)
Mating Type	Threaded locking mechanism with coupling assist
Orientation	Straight body form
Electrical Performance (Standard Expectations)	
Current Rating	5A max per contact (typical for standard signal configurations; can drop to 1.5A–2A if a miniaturized M8 profile is used)
Voltage Rating	250V AC / 32V DC (designed primarily for low-voltage signal transmission or control circuitry)
Contact Resistance	≤ 5 mΩ
Insulation Resistance	≥ 100 MΩ
Materials & Construction	
Housing Material	High-grade engineering thermoplastic (such as PA66 / Nylon, typically UL 94V-0 rated for heat and self-extinguishing properties) or Nickel-plated Brass/Zinc alloy.
Contact Material	Brass or Copper alloy
Contact Plating	Gold-plated over Nickel (ensures low contact resistance and protects against atmospheric oxidation over heavy usage)
Mating Cycles	Guaranteed up to 500 cycles minimum
Environmental Limits	
Ingress Protection (IP Rating)	Typically IP67 when properly mated and locked (completely dust-tight and protected against water immersion up to 1 meter)
Operating Temperature	-25°C to +85°C (extended industrial ranges can reach -40°C to +105°C)
Shielding	Available in unshielded or standard integrated EMC outer ground rings depending on the application assembly