Features

- Removable screw connection for easy and secure wiring
- High protection rating with IP67 sealing for demanding environments
- Wide cable outlet range suitable for 6.0–9.5 mm cable diameters
- Reliable electrical performance with up to 16 A rated current and 400 V rated voltage
- Durable mechanical design with more than 500 mating cycles and -40 °C to +100 °C operating temperature

RS PRO Servo Motor Power Connector Female

RS Stock No.: 885342



RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

Product Description

- This removable screw-lock connector is designed for secure and reliable electrical connection in industrial systems. With a rated current of up to 16 A and rated voltage of 400 V / 600 V UL, it is suitable for power and signal connection applications where durability, easy wiring, and environmental protection are required.
- The product is used to connect cables to industrial equipment such as servo drives, servo motors, motion control systems, automation panels, machines, and field devices. Its removable screw connection allows easy installation, maintenance, and replacement without requiring complex tools.
- It is especially suitable for industrial automation, machinery, motion control, CNC systems, packaging machines, production lines, and outdoor or harsh-environment installations where protection against dust, moisture, and mechanical stress is important. With IP67 protection and a wide operating temperature range from -40 °C to +100 °C, it provides reliable performance in demanding environments.
- This connector is commonly used with multi-core power cables, motor cables, control cables, servo motor connections, drive systems, and industrial electrical interfaces. The cable outlet range of 6.0–9.5 mm and wire cross-section up to 2.50 mm^2 / AWG 14 make it compatible with many industrial cable types.
- It may not be suitable for applications requiring higher current than 16 A, cable sizes larger than 2.50 mm^2, or environments beyond its specified voltage, temperature, and protection limits. For applications with continuous heavy vibration, extreme chemical exposure, or special safety requirements, suitability should be verified according to the final system design.

General Specifications

Connection Type	Removable screw connection
Connection Cross-Section	Max. 2.50 mm^2
Connection Cross-Section	Max. AWG 14
Rated Current at 40 °C	16 A / 12 A UL
Rated Voltage	400 V / 600 V UL
UL Rated Voltage	600 V
Impulse Voltage	6000 V
Contact Resistance	≤ 5 mΩ
Insulation Resistance	≥ 10^{10} Ω
Contact Material	CuZn / Brass
Contact Surface	Ag / Silver
Contact Carrier Material	PBT / UL 94 V-0
Weight	40.4 g

Mechanical Specifications

Specification	Value
Connector Locking	Screw
Cable Outlet	6.0 – 9.5 mm
Mechanical Lifetime	> 500 mating cycles
Upper Temperature Limit	100 °C
Lower Temperature Limit	-40 °C
Fits Round Tube Size	Type 6; Type 7; Type 8
Weight	4.5g

Protection Category

Specification	Value
Protection Rating	IP67
Protection Rating	IP65 for cable diameter 6–7 mm

Classification

Specification	Value
Pollution Degree	3
Overvoltage Category	III
Insulation Class	III
Approval 1	UL
Approval 2	ESTI+
Approval 3	VDE
Customs Tariff Number	85369010

Similar Products

Parameters	Female Connector	885342
Brand	RS PRO	RS PRO
Product Family	Industrial Connector	Industrial Connector
Product System	Cable Connector System	Cable Connector System
Structural Element Type	Connector	Connector
Connector Type	Female Connector	Male Connector
Fits Groove Size	Not Applicable	Not Applicable
Thread Size	Screw Locking	Screw Locking
Length	Not Specified	Not Specified
Fits Strut Profile	Not Applicable	Not Applicable
Fits Tube Diameter	Not Applicable	Not Applicable
Fits Square Tube Profile	Not Applicable	Not Applicable
Fits Round Tube Size	Not Applicable	Not Applicable
Weight	40.4 g	Similar / Not Specified
Material	CuZn Brass Contact / PBT Housing	CuZn Brass Contact / PBT Housing
Finish	Silver-Plated Contact	Silver-Plated Contact
Set Contains	Connector Body with Screw Connection	Connector Body with Screw Connection
Applications	Industrial automation, servo motor connections, machinery, power and control cable interfaces	Industrial automation, servo motor connections, machinery, power and control cable interfaces
ESD-capable	Not Specified	Not Specified