

IPC-M350 Connectors

RUGGED INDUSTRIAL POWER CONNECTOR

Amphenol's IPC-M350 power connector is the largest and most powerful connector in the IPC-M product series. IPC-M350 is capable of housing two separate 350MCM (185mm²) contacts rated for up to 500A (UL rated). IPC-M350 is an ideal connector solution for battery interconnects, eMobility charging, and other DC power distribution applications. This connector is designed for wire-to-wire interconnects featuring multiple color-coded options with built-in keying features to ensure proper mating. IPC-M350 connectors are capable of housing 1/0 to 350MCM wire sizes.

- UL rated up to 500A per 350MCM (185mm²) contact
- Color-keyed housing design (Gray, Blue, and Red)
- Silver plated contacts rated up to 10,000 mating cycles
- UL tested and approved when cross-mated with competitive connectors



TARGET MARKETS



FEATURES

- UL rated to house 350MCM (185mm²) contacts up to 500A/Contact
- Silver plated contacts rated up to 10,000 mating cycles
- Color-coded mechanically keyed housing design

BENEFITS

- Provides superb power density for power-hungry applications
- Durable contact materials
- Prevent cross-mating devices with different voltages (all connectors UL rated to 600V, colors are identifiers to prevent accidents)

TECHNICAL INFORMATION

MATERIAL

- Power Contacts: Copper Alloy
- Housing: High temperature thermoplastic, UL 94V-0 compliant
- Retention Spring: Stainless Steel
- Finish: Contact: Silver plated

ELECTRICAL PERFORMANCE

- Operating Current Range:

ePwr™	Wire Size	UL1977	CSA
IPC-M350	350MCM (185mm ²)	500A	325A

- Operating Voltage Rating: 600VAC/VDC

MECHANICAL PERFORMANCE

- Mating/Un-mating Force:

ePwr™	Avg. Mating & Un-mating Force
IPC-M350	133N

- Durability: 10,000 Mating/Un-mating Cycles (Silver plated contacts)

APPROVALS & CERTIFICATION

- UL/CSA Approved: File # E66906

ENVIRONMENTAL

- Operating Temperature Range: -40°C and +105°C

SPECIFICATIONS

- Product Specifications: GS-12-1906
- Application Specifications: GS-20-0862

PACKAGING

- Insulator: Bulk Packing
- Contacts: Bulk Packing

TARGET MARKETS/APPLICATIONS



Energy Storage Systems (ESS)



eMobility
EV Chargers



Industrial



Robotics

EXAMPLE PART NUMBERS

Description	Part Numbers
IPC-M350 Gray Connector	10170845-001LF
IPC-M350 Blue Connector	10170845-002LF
IPC-M350 Red Connector	10170845-003LF
IPC-M350 300MCM/350MCM Contact	10170843-S05LF
IPC-M350 4/0 Contact	10170843-S04LF
IPC-M350 3/0 Contacts	10170843-S03LF
IPC-M350 2/0 Contacts	10170843-S02LF
IPC-M350 1/0 Contacts	10170843-S01LF

Find part number details using the search box on www.amphenol-cs.com