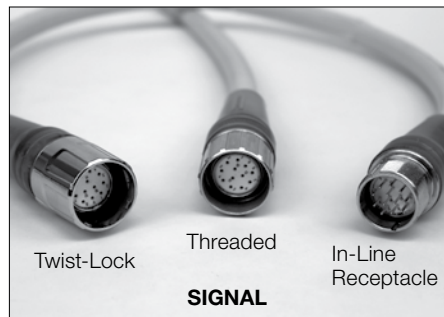


# Molded & Mechanical M23 Connector Assembly

- IP67 / IP69K per EN 60 629 (connected)
- Operating Temperature Range -40° to 125°C
- Mating Cycles > 1000
- Nickel Plated Housing Surface

TPC's Molded M23 Connector Assemblies are a superior choice for your servo motor cables used in Rockwell, Allen Bradley and Siemens applications. Designed with a fully molded backend (mechanical options also available), our M23 connector assemblies withstand the abuse caused by continuous flexing and pulling, making it the ideal solution for keeping your applications running smoothly.



## FEATURES & BENEFITS

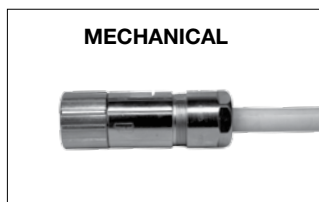
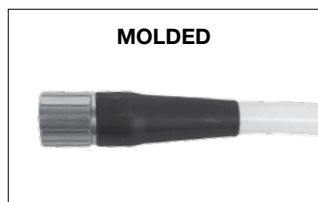
- 1. FULLY MOLDED BACKEND** – Prevents the ingress of dirt and moisture, allows for flexing without cable pulling out of the connector.
- 2. NUMEROUS INSERT VARIATIONS** – The M23 insert offering is versatile in design accommodating both signal and power applications ranging from 28-14 AWG.
- 3. SLIM/LOW PROFILE MOLDED DESIGN** – Small molded backend for easy installation and routing.
- 4. M23 INTERFACE** – Used as the preferred connection in many motor and drive applications and offers both the threaded and quick bayonet locking systems.

- 5. SUPERIOR CABLES** – TPC offers a wide array of cable products to fit the M23 Product line.
- 6. CUSTOMIZABLE** – TPC's engineering group offers custom pinouts and wiring capabilities with numerous cable products at any length you require. You can get the cable assembly you need designed specifically to your application.
- 7. FULLY ASSEMBLED** – Don't hassle with the assembly of these connectors in the field. TPC can build all of your molded and mechanical assemblies.

## APPLICATIONS

- Servo Motors
- Variable Frequency Drive (VFD) Applications
- Encoders (EnDat)
- Resolvers
- Shielded Power Cables
- Data and Signal Cables
- Robotic Movement and Automation
- Conveyors

## MOLDED VS. MECHANICAL BACKSHELLS

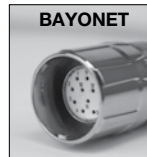


- The Molded version promotes a fully sealed tamper proof backend with superior cable strain relief. The low profile design allows for easy placement and routing capability during installation.
- The Mechanical version contains a sealing grommet that grips the cable jacket to prevent moisture ingress and is also field repairable in the instance of damage.

## LOCKING STYLES EXPLAINED



This is an M23 x 1 Thread that is universal to the M23 style product line.



This style is a quarter turn locking system which utilizes three bayonet pegs on the plug which slide down the Thread Grooves of the receptacle and then lock into place on the back channel.



The receptacles are universal to both the threaded and Twist-Lock Styles. Notice the threaded sections and also the Thread grooves which accommodate both options.

Mini Quick-Connects™  
 Micro Quick-Connects™  
 Nano Quick-Connects™  
 Specialty Quick-Connects™  
 Ethernet Cable Assemblies  
 7 Pin Molded Valve Plug  
 DIN Connectors  
 Extension Cords  
 M23 Connector Assemblies  
 Military Connectors  
 Rectangular Connectors