



# ENGINEERED SOLUTIONS

Industrial Connection Systems

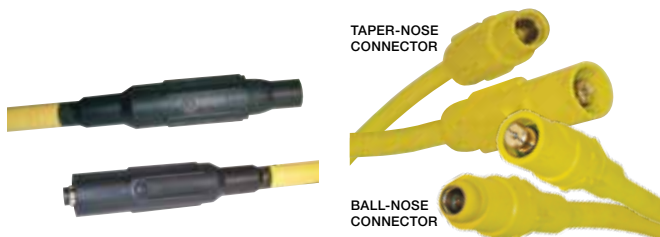


TPC WIRE & CABLE CORP.  
*EXPECT HIGH PERFORMANCE®*

## Molded Assemblies for Welding & Temporary Power

TPC can create a custom “plug & play” quick connect system for power, control or data cables that can be quickly deployed in an emergency situation. The all-rubber construction of the molded connector design reduces cable stress and provides an environmental seal between the cable and connector head — protecting against water, oil and dust contamination.

### ASSEMBLIES UP TO 600 V



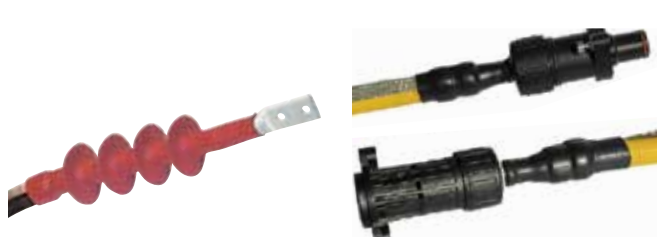
#### Molded Locking Assemblies “PA22”

This is a fully molded design which provides a complete bond between the cable jacketing and connector head. The molded locking connector has been “pull tested” to 2,000 lbs. and contains a safety feature to prevent unintended disconnection. To disconnect, depress the safety release, one quick turn, and the connector can be easily changed out.

#### Molded Single Pole Assemblies

TPC’s PA16 “Taper-Nose” and PA18 “Ball-Nose” connections are fully molded and bonded to the cable which provides an environmental seal protecting the connection from dust, dirt, water, chemicals, and reduces cable stress. This process eliminates cable “pull back” from the connection. Available in a variety of cable sizes.

### ASSEMBLIES 5kV TO 35kV



#### Type SH Termination Assemblies

TPC’s flexible medium voltage cables can be connectorized with a variety of medium voltage connections. Contact your sales representative to discuss your requirements. TPC will cut the cable to any length and add connectors to provide a complete solution. Cable storage and deployment solutions for these cables are also available.

#### Medium Voltage Quick-Connect™ Assemblies

If you need a quick plug and play solution, we can add a connector to a TPC medium voltage cable to create a medium voltage quick connect assembly to support your temporary power and distribution requirements.

## Heavy-Duty Locking Connectors (HDLC)

The most advanced line of connectors available according to MIL-C-5015 and VG95234. The HDLC connector series was developed specifically to meet the demands of industrial environments. The HDLC series shares the same shell dimensions, contact layouts, and electrical performance characteristics as the common MIL-C-5015 connectors with application engineered features such as three-quarter reverse bayonet coupling system, rubber covered coupling ring, black zinc shell plating and a superior sealing and strain relief system.



#### Heavy-Duty Locking Connectors (HDLC)

- IP67 Rated, DIN 40 050 Rated
- VG 95 234 NATO Specification
- Number of Circuits: 1 to 65
- Contact Type: Hard Silver or Gold, Crimp or Solder
- Mating Life: 2,000 Cycles Minimum (Commercial) 500 Cycles Minimum (to VG 95 234)
- Vibration: 200 m/s<sup>2</sup> at 10 to 2,000 Hz To VG 95 234 Test 5.16
- Shock: 50g 11ms, Three Major Axes To VG 95 234 Test 5.17
- Operating Temperature Range -55°C to 125°C

## Molded Military Connectors

This connector style has been in use by the military for more than 50 years with a proven track record. TPC Wire & Cable Corp. has taken the standard MIL-C-5015 design and developed a new back shell that incorporates a sealing grommet and strain relief for added cable life. The shell design incorporates a low profile design and a reduced overall length for close quarter installations.

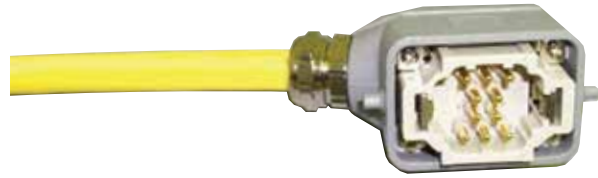


### Molded Military Connectors

- MIL-C-5015
- VG 95 234 NATO Specification
- Operating Temperature Range -55°C to 125°C

## Rectangular Connectors

Rectangular connectors are built to handle the harshest environments. To ensure out-of-the-box reliability, all of our cord sets are tested for continuity and configuration. To reduce costs of rectangular connectors, custom lengths are available and eliminates excessive cable on the application. Lastly, engineering support is available for those non-standard applications requiring special wiring and design.

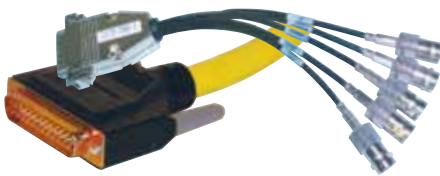


### Rectangular Connectors

- Cord Sets are made with Super-Trex® and Trex-Onics® cables that are designed for Industrial Applications where flexing, abrasion, impact and oil can cause premature failure.

## Custom Connector Assemblies

TPC provides custom engineered products designed for your applications and their respective harsh environments. Our custom products are designed specifically to solve a particular problem for your individual needs. TPC engineers are highly experienced in electrical, mechanical, chemical and industrial engineering disciplines, and are on hand to develop a custom designed solution for you.



### Molded D-Sub Assemblies

D-Sub assemblies are available in various configurations and pinouts for customer specific applications. TPC's molded versions offer environmental protection and durability. Contact your sales representative to learn more about custom Molded D-Sub Assemblies.



### Heavy-Duty Lug Terminations

Crimp Connections from 10 AWG to 750 MCM. Standard or custom lugs and terminals. Custom cutting to specific lengths. Custom marking and packaging is available.



### Custom Designed Lugs

Custom Designed Lugs (pictured above) are made of titanium to prevent corrosion. The cable jacket features a strain relief covering to prevent copper stranding fatigue and conductor breakage in flexing applications.

*Find out how our Pendant Push Button Stations can extend your assembly life, call 800-521-7935.*



# Build Your Own Extension Cord Assemblies

The chart below lists components with which to “build” the exact assembly needed for your application. Begin at left with the “TYPE” column. Next, write an “EA” in the box at the top of the “TYPE” column. Then from the next column, identify the series. Write the appropriate letter in the box at the top of the column. Select components from all remaining columns, writing the desired letters or numbers chosen in the box at the top of each column.



TYPE	END 1	COLOR 1	END 2	COLOR 2	GFCI	CABLE	UOM	LENGTH	
EA	1	A	2	A	X	01	F	050	
EA = Extension Cord Assembly	1 = Male Nema 5-15 Plug	A = Trans- lucent Light Amber with Indicator Light	1 = Male Nema 5-15 Plug	A = Trans- lucent Light Amber with Indicator Light	GFCI (Ground Fault Circuit Interrupter)	<b>Triple-Gard™:</b> <b>01</b> = 14/3 #85194 Yellow (0.548" OD) <b>02</b> = 14/3 #85094 Black (0.548" OD) <b>03</b> = 12/3 #85195 Yellow (0.623" OD) <b>04</b> = 12/3 #85095 Black (0.623" OD) <b>05</b> = 10/3 #85196 Yellow (0.685" OD) <b>06</b> = 10/3 #85096 Black (0.685" OD) <b>Ultra-Gard™:</b> <b>07</b> = 14/3 #87194 Yellow (0.548" OD) <b>08</b> = 12/3 #87195 Yellow (0.623" OD) <b>09</b> = 10/3 #87196 Yellow (0.685" OD) <b>Type TC:</b> <b>10</b> = 14/3 #87194TC Yellow (0.548" OD)	Unit of Measure:	Enter a three digit code in the box above.	
	2 = Female Nema 5-15 Plug	B = Trans- lucent Light Amber with No indicator Light	2 = Female Nema 5-15 Plug	B = Trans- lucent Light Amber with No indicator Light	X = No GFCI on Extension Cord Needed		M = Meters	EXAMPLE: <b>5</b> = "005" <b>50</b> = "050" <b>500</b> = "500"	
	3 = Female TripleTap Nema 5-15		3 = Female TripleTap Nema 5-15	Y = GFCI Mounted 3 Feet From Male End	F = Feet				
	4 = Blunt Cut (No Termination)	C = Black Polyamide with No Indi- cator Light	4 = Blunt Cut (No Termination)	C = Black Polyamide with No Indi- cator Light	A = Inches				
<b>MAX LENGTH OF EACH AWG SIZE</b> <b>14 AWG:</b> 77 Feet Maximum <b>12 AWG:</b> 125 Feet Maximum <b>10 AWG:</b> 200 Feet Maximum <b>125V / 15A / 5% Variance on Voltage Drop (ANSI C84.1)</b>									

PART NO.

In the sample part number above, **EA1A2AX01F050** is a double ended extension cord assembly using 14/3 Yellow Triple-Gard™ Portable Cord (#85194) and is 50 feet long. End 1 is a Male Nema 5-15 Plug and End 2 is a Female Nema 5-15 Plug, both are a translucent light amber color with an indicator light.



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