



## Product Description

United Controls International (UCI) has engineered and developed a quick-disconnect (QDC) Electrical Connector. Our connectors are cost-efficient and available for purchase direct from UCI. To order, please see the product catalog numbering list located on the back of this flyer.

Upon customer request, these connectors can be qualified and supplied to meet Harsh environment specifications. UCI is well-known for their stringent quality assurance program capable of meeting NQA-1, 10CFR21, and 10CFR50 Appendix B requirements.

### Product Features

- Static Seal Gland Groove Design
- Back-up Compression Seal
- Easy Grip Lock Ring
- Visual, Audible, and Tactile Locking Mechanism
- Small and Lightweight
- Simple Installation and Assembly

### Qualification Standards

- IEEE 323 - Environmental Qualification
- IEEE 344 - Seismic Qualification
- IEEE 382 - Qualification of Line Mounted Actuators
- IEEE 572 - Qualification of Connection Assemblies

### Physical Specifications

Weight Connector	0.5 lb
Weight Receptacle	0.3 lb
Length (Connected)	5.8"
Diameter (Max)	1.6"

### Functional Specifications

Dielectric Withstand	60 sec at 2200 VAC; leakage current $\leq 5$ mA
Insulation Resistance	15 sec at 500VDC; IR $\geq 10$ G $\Omega$

### Electrical Specifications

Wire Size	10 AWG to 20 AWG
Number of Wires	3 to 8 (Depending on Wire Size)
Rated Voltage	600 Volts
Rated Current 194 °F	7.5 to 23 Amps (Depending on Wire Size)
Contact Resistance	0.008 to 0.002 $\Omega$ (Depending on Wire Size)



### Qualification Specifications

Qualified Life	60 years at 144°F (plus Abnormal Events)
Radiation	320 Mrad-air TID (Normal and Accident)
Seismic	10g (SSE)
LOCA	500°F, 80 psig, Chemical Spray, 100% Relative Humidity (RH), Submergence
Post-accident Aging	Equivalent to 1 year at 200°F
Submergence	1 year at 285°F, 62 psia

### UCI 200 Series Quick Disconnect Connector Catalog Numbering

	UCI	2	A	B	-	C	DE	FG	H
<b>Series</b>									
<b>A - Environment</b> 1= Commercial 2= Mild 3= Harsh									
<b>B - Size</b> 2= 1/2" NPT 3= 3/4" NPT 6= 1-1/2" NPT									
<b>C - Pin Gauge</b> 3= 16 GA 5= 20 GA									
<b>DE - # of Conductors</b> Number of conductors									
<b>FG - Wire Length</b> Length of wire in 10's of Ft (20 Ft increments)									
<b>H - Special</b> Blank= Standard C= Flex Conduit E= EMI/RFI									

Example:

UCI 2 1 2 - 3 02 03 E

UCI 212-30203E is a UCI 200 Series, Commercial, 1/2" NPT, 16 GA,  
2 pin QDC, with 30 feet of cable tested for EMI/RFI