

## Performance and Test Specifications - Page 1 of 2

QUALITY	
Quality Program Requirements	ISO 9001
Military Specifications - Connectors	MIL-C-55302D
Sampling Procedures and Tables for Inspection	MIL-STD-105
Quality Assurance Terms and Conditions	MIL-STD-109
Calibration System Requirements	MIL-STD-45662A
Inspection System Requirements	MIL-I-45208A

INSULATOR	
<b>Plastic Material Specification</b>	
Molding Plastics, Polyester, Thermoplastic	MIL-M-24519
Tests for Flammability	UL94V-O
UL Temperature Index	UL746B
Limiting Oxygen Index	ASTM D2863
<b>Plastic Material Applied Tests</b>	
Dielectric Strength, Short Term	ASTM D149
Dielectric, Constant	ASTM D150
Izod Impact Strength	ASTM D256
DC Resistance (Volume Resistivity)	ASTM D257
Arc Resistance	ASTM D495
Water Absorption	ASTM D570
Test for Tensile Strength	ASTM D638
Heat Deflection Temperature	ASTM D648
Compressive Strength	ASTM D695
Coefficient of Linear Thermal Expansion	ASTM D696
Shear Strength of Plastics	ASTM D732
Rockwell Hardness R-scale	ASTM D785
Flexural Strength of Plastics	ASTM D790
Specific Gravity and Density of Plastics	ASTM D792
Mold Shrinkage Flow	ASTM D995
Outgassing Test	ASTM E-595-84

CONTACTS	
<b>Material Specifications</b>	
Phosphor Bronze	QQ-B-750/ASTM B159
Copper and Copper Alloy 770	ASTM B122
<b>General Specifications</b>	
General Specifications for Contacts	MIL-C-39029D
POSTS	
Wire, Phosphor Bronze	QQ-B-750/ASTM B159
PLATING	
<b>Outer Plating Specifications</b>	
Gold - Type II, Grade C	MIL-G-45204
Tin/Lead	MIL-P-81728A
<b>Under plating Specifications</b>	
Nickel	QQ-N-290
Copper	MIL-C-14550
Palladium Nickel	MIL-P-45209
<b>Plating Applied Tests</b>	
Coating Thickness (X-Ray Fluorescence)	ASTM-A-754-79
ASSEMBLY	
<b>Testing Specifications</b>	
Test Methods for Electrical Connectors	MIL-STD-1344A
Test Methods for Elec. and Elect. Comps.	MIL-STD-202
Connections. Electrical, Solderless, Wrapped	MIL-STD-1130B
Environmental Test Methods	MIL-STD-810
<b>Packaging Specifications</b>	
Connector, Preparations for Delivery of	MIL-C-55330
Marking of Electronic Parts	MIL-STD-1285B
Marking for Shipment and Storage	MIL-STD-129
Identification Marking of US Military Property	MIL-STD-130
Bar Coding Symbology	MIL-STD-11898

**Crane uses the above test methods in full or in part to determine compliance of its parts and materials to internal and customer supplied specifications.**

**SAMPLE HOTLINE: 1-800-676-7644**

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## Crane Connectors - Plating Specifications

PLATING OPTIONS		CONTACT AREA Inches (Millimeters)	PC TAIL Inches (Millimeters)	UNDERPLATE Inches (Millimeters)
<b>G</b>	Selective	15 $\mu$ " (0,00038) Gold	100 $\mu$ " (0,00254) Tin/Lead - Min	50 $\mu$ " (0,00127) Nickel - Min.
<b>T</b>	Tin / Lead	100 $\mu$ " (0,00254) Tin / Lead	100 $\mu$ " (0,00254) Tin/Lead - Min	50 $\mu$ " (0,00127) Nickel - Min.
<b>M</b>	Selective	50 $\mu$ " (0,00127) Gold	100 $\mu$ " (0,00254) Tin/Lead - Min	50 $\mu$ " (0,00127) Nickel - Min.
<b>H</b>	Selective	30 $\mu$ " (0,00076) Gold	100 $\mu$ " (0,00254) Tin/Lead - Min	50 $\mu$ " (0,00127) Nickel - Min.
<b>L</b>	Selective	10 $\mu$ " (0,00025) Gold	100 $\mu$ " (0,00254) Tin/Lead - Min	50 $\mu$ " (0,00127) Nickel - Min.
<b>F</b>	Selective	3 $\mu$ " (0,00008) Gold	100 $\mu$ " (0,00254) Tin/Lead - Min	50 $\mu$ " (0,00127) Nickel - Min.

### STANDARD TAIL OPTIONS ON 0.100" (2,54mm) PIN STRIP HEADERS

"R" COINED	"K" KINKED	"F" FINE	"Q" SQUARE
The standard "R" option provides a coined tail improving solder action while making insertion easier.	The "K" option provides a kinked tail, reducing unwanted movement on the PC board.	The "F" option combines an 0.018" rounded tail with an 0.025" square post. This fine line feature allows more traces between holes.	The "Q" option provides an 0.025" square tail for use in wire wrap applications.

### STANDARDS

 UL File No. E120111 (N)	ISO9001  Crane Connectors File No. A-3620
Recognized to U.S. and Canadian requirements under the Component Recognition Program of Underwriters Laboratories Inc.	Registered by UL to ISO9001 under UL's accreditation by Raad voor de Certificatie (RvC), the Dutch Council for Certification.

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