

# MWKQ Micro Circular Quick Disconnect



**Plug With Socket Contacts**



**Receptacle With Pin Contacts**

**MWKQ Micro Circular Connectors** feature quick coupling and quick release. The plug has a knurled release sleeve. To unmate, just pull back on the sleeve, compressing the locking ring and free it from the receptacle.

**Choose (7) or (19) Contacts** – Connectors are supplied with hookup wires installed and potted.

## HOW TO ORDER PLUG (SOCKET) CONNECTORS

Series	No. of Contacts	Contact Type	Wire Gage (AWG)	Wire Type	Wire Color	Wire Length Inches
MWKQ2L6	7 19	S – Socket	4 – #24 6 – #26 8 – #28 0 – #30	<b>K</b> – M22759/11 600 Vrms Teflon® (TFE) <b>J</b> – M22759/33 600 Vrms Modified Cross-Linked Tefzel® (ETFE)	1 – White 2 – Yellow 5 – Color Coded Striped Wire Per MIL-STD-681 7 – Ten Color Repeating	<b>18</b> Length In Inches. "18" Specifies 18 Inches.

### Sample Part Number

MWKQ2L6	– 19	S	– 6	K	7	– 24
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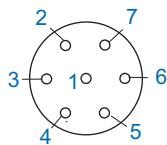
## HOW TO ORDER RECEPTACLE (PIN) CONNECTORS

Series	No. of Contacts	Contact Type	Wire Gage (AWG)	Wire Type	Wire Color	Wire Length Inches
MWKQ2L7	7 19	P – Pin	4 – #24 6 – #26 8 – #28 0 – #30	<b>K</b> – M22759/11 600 Vrms Teflon (TFE) <b>J</b> – M22759/33 600 Vrms Modified Cross-Linked Tefzel (ETFE)	1 – White 2 – Yellow 7 – Ten Color Repeating	<b>18</b> Length In Inches. "18" Specifies 18 Inches.

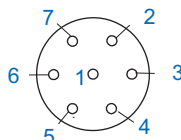
### Sample Part Number

MWKQ2L7	– 7	P	– 6	K	7	– 24
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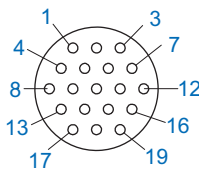
## CONTACT ARRANGEMENTS



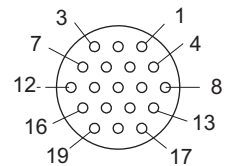
7 Contacts  
Face View Pin Connector  
(Receptacle)



7 Contacts  
Face View Socket Connector  
(Plug)



19 Contacts  
Face View Pin Connector  
(Receptacle)



19 Contacts  
Face View Socket Connector  
(Plug)

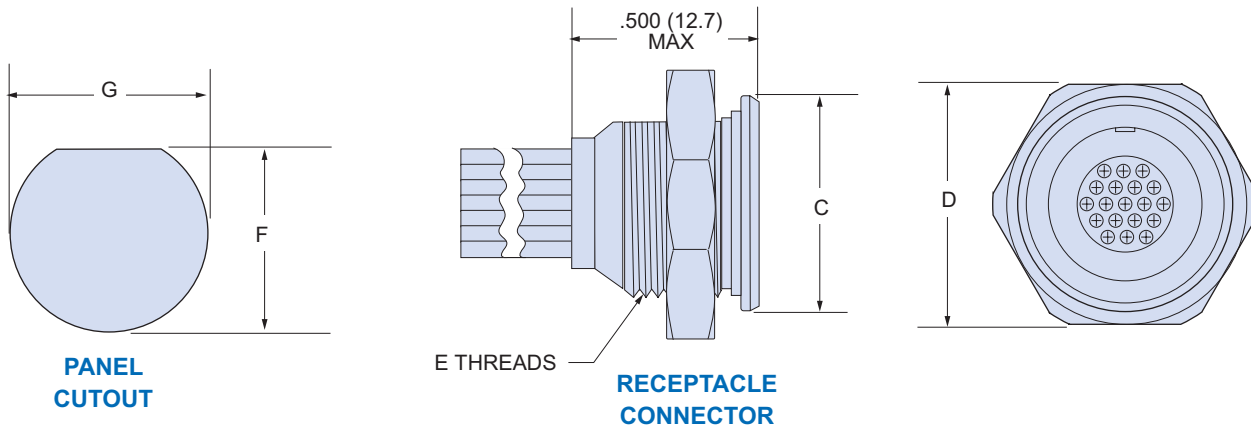
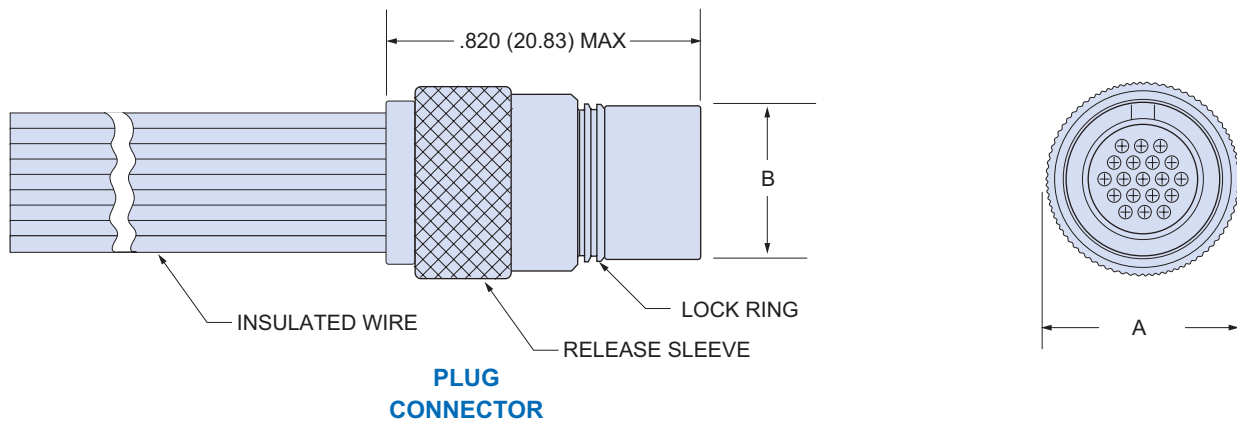


## PERFORMANCE SPECIFICATIONS

Current Rating	3 AMP
Dielectric Withstanding Voltage	600 VAC Sea Level 150 VAC 70,000 Feet
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level CR	32 Milliohms Maximum
Operating Temperature	-55° C. to +150° C.
Shock	50 g.
Vibration	20 g.
Mating Force	(10 Ounces) X (# of Contacts)

## MATERIALS AND FINISHES

Connector	
Shell, Release Sleeve, Jam Nut	Aluminum Alloy 6061 with Electroless Nickel Plating
Insulator	Liquid Crystal Polymer (LCP)
Lock Ring	Stainless Steel
Pin Contact	Beryllium Copper With 50 Microinches Gold over Nickel Plating
Socket Contact	Copper Alloy With 50 Microinches Gold Over Nickel Plating
Encapsulant	Epoxy Resin Hysol EE4215



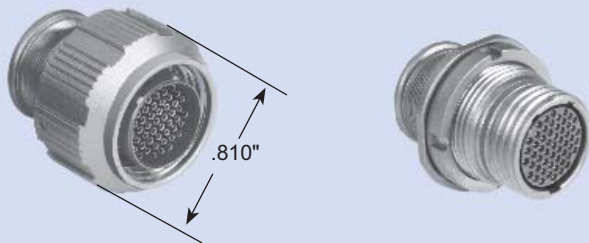
## DIMENSIONS

Layout	A Max.		B Max.		C Max.		D Hex.		E Thds.	F		G Dia.	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.		In.	mm.	In.	mm.
<b>7</b>	.385	9.78	.305	7.75	.500	12.7	.500		.3125-32 UNEF-2A	.364	9.25	.390	9.91
<b>19</b>	.515	13.08	.405	10.28	.570	14.48	.625		.500-28 UNEF-2A	.475	12.07	.515	13.08

## CUSTOM CIRCULAR TWISTPIN CONNECTORS

### 55 Pin Circular Connector

This connector, developed for a CCD imaging system, provides 55 contacts in a shell size 9 circular connector. Compatible with standard Glenair Series 80 "Mighty Mouse" connector options, this layout offers high density packaging and environmental protection in a circular twistpin connector.



### Ultra-Small 7 Pin Micro Circular

This "minimalist" connector grew out of the need for an extremely small connector for use in laboratory monitoring equipment. The diameter over the coupling nut is .375 inches (9.53 mm.). Designed for wire-to-wire applications, the coupling nut is captivated by soldering a ferrule to the back of the plug.