

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 | K – M22759/11 600 Vrms Teflon® (TFE) J – 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 | 18 Length In Inches. "18" Specifies 18 Inches. |

Sample Part Number

| | | | | | | |
|---------|------|---|-----|---|---|------|
| MWKQ2L6 | – 19 | S | – 6 | K | 7 | – 24 |
|---------|------|---|-----|---|---|------|

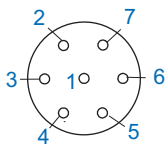
HOW TO ORDER RECEPTACLE (PIN) CONNECTORS

| 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 | K – M22759/11 600 Vrms Teflon (TFE) J – M22759/33 600 Vrms Modified Cross-Linked Tefzel (ETFE) | 1 – White 2 – Yellow 7 – Ten Color Repeating | 18 Length In Inches. "18" Specifies 18 Inches. |

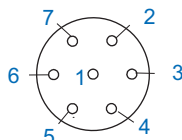
Sample Part Number

| | | | | | | |
|---------|-----|---|-----|---|---|------|
| MWKQ2L7 | – 7 | P | – 6 | K | 7 | – 24 |
|---------|-----|---|-----|---|---|------|

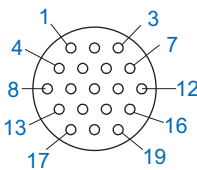
CONTACT ARRANGEMENTS



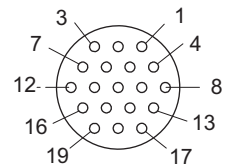
7 Contacts
Face View Pin Connector
(Receptacle)



7 Contacts
Face View Socket Connector
(Plug)



19 Contacts
Face View Pin Connector
(Receptacle)



19 Contacts
Face View Socket Connector
(Plug)

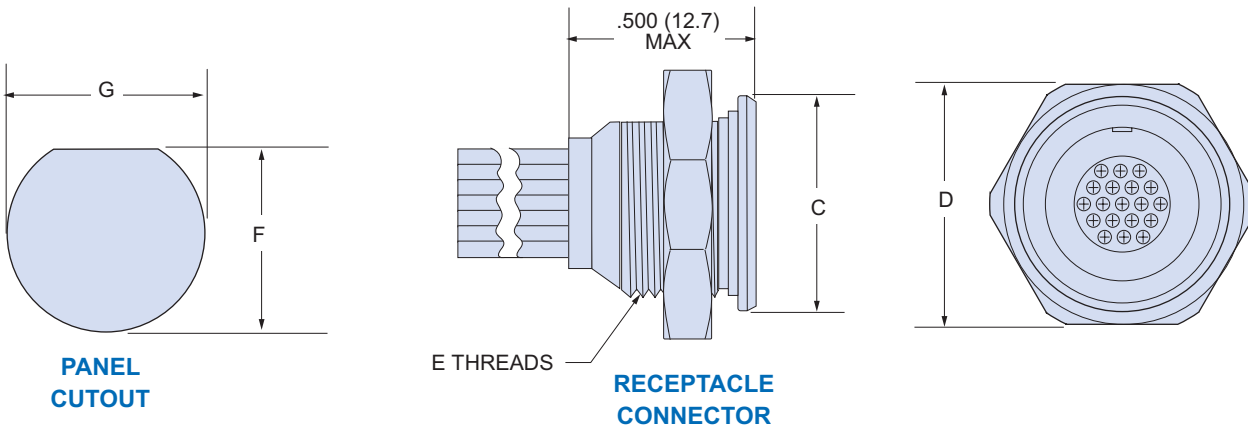
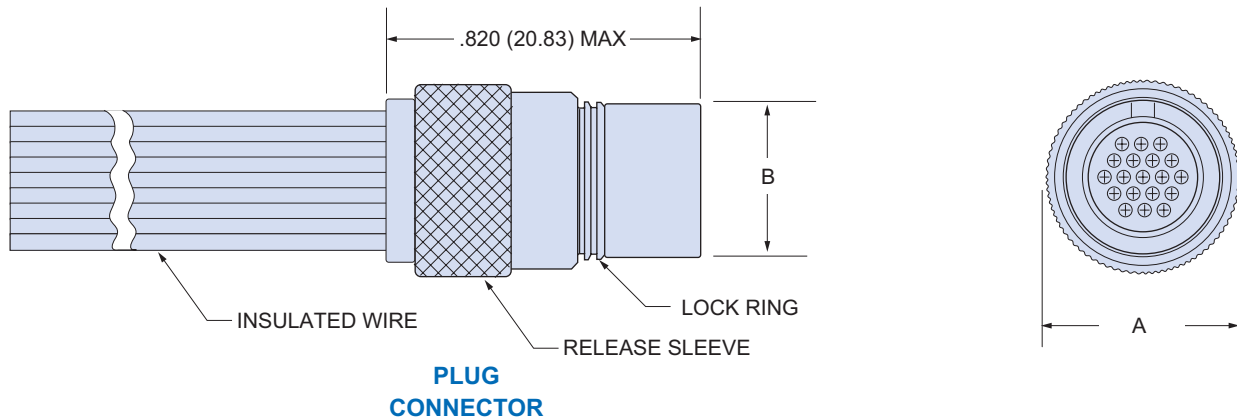


PERFORMANCE SPECIFICATIONS

| | |
|---------------------------------|--|
| 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 |



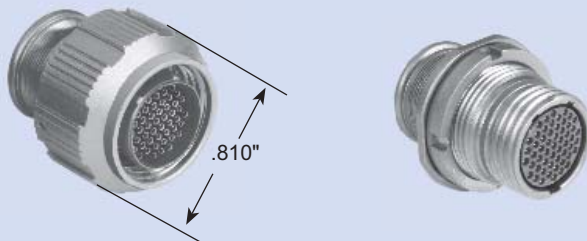
DIMENSIONS

| 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. |
| 7 | .385 | 9.78 | .305 | 7.75 | .500 | 12.7 | .500 | | .3125-32 UNEF-2A | .364 | 9.25 | .390 | 9.91 |
| 19 | .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.