MWKQ2L6
Quick Disconnect Micro Circular Connectors
Plug Connectors

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.

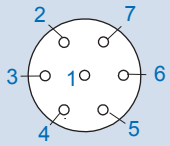
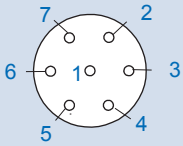
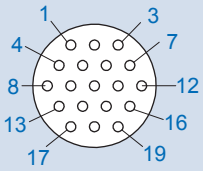
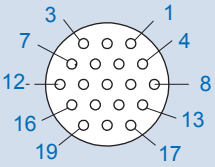
Choose (7) or (19) Contacts – Connectors are supplied with hookup wires installed and potted.

How To Order Plug (Socket) Connectors

Sample Part Number	MWKQ2L6	-19	S	-6	K	7	-24

Series	**MWKQ2L6**
No. of Contacts	**7**, **19** (See Table I and II)
Contact Type	**S** - Socket
Wire Gage (AWG)	**4** - #24 **6** - #26 **8** - #28 **0** - #30
Wire Type	**K** - M22759/11 600 Vrms Fluoropolymer (TFE) **J** - M22759/33 600 Vrms Modified Cross-Linked Fluoropolymer (ETFE)
Wire Color	**1** - White **2** - Yellow **5** - Color Coded Striped Wire Per MIL-STD-681 **7** - Ten Color Repeating
Wire Length Inches	**18 -** Total Length In Inches. "18" Specifies 18 Inches.

Table I: 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)

P

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MWKQ2L7 MWKQ2L8 and MWKQ2L9
Quick Disconnect Micro Circular Connectors
Receptacle Connectors, Inline, Front and Rear Mount

How To Order Receptacle (Pin) Connectors								
Sample Part Number	**MWKQ2L7**	**-7**	**P**	**-6**	**K**	**7**	**-24**	
Series	**MWKQ2L7**							
No. of Contacts	**7**, **19** (See Table I and II)							
Contact Type	**P** - Pin							
Wire Gage (AWG)	**4** - #24 **6** - #26 **8** - #28 **0** - #30							
Wire Type	**K** - M22759/11 600 Vrms Fluropolymer (TFE) **J** - M22759/33 600 Vrms Modified Cross-Linked Fluropolymer (ETFE)							
Wire Color	**1** - White **2** - Yellow **7** - Ten Color Repeating							
Wire Length Inches	**18 -** Total Length In Inches. "18" Specifies 18 Inches.							

How To Order Receptacle (Pin) Connectors								
Sample Part Number	**MWKQ2L8**	**-7**	**P**	**-6**	**K**	**7**	**-18**	
Series	**MWKQ2L8**							
No. of Contacts	**7**, **19** (See Table I and III)							
Contact Type	**P** - Pin							
Wire Gage (AWG)	**4** - #24 **6** - #26 **8** - #28 **0** - #30							
Wire Type	**K** - M22759/11 600 Vrms Fluropolymer (TFE) **J** - M22759/33 600 Vrms Modified Cross-Linked Fluropolymer (ETFE)							
Wire Color	**1** - White **2** - Yellow **5** - Color Coded Striped Wire Per MIL-STD-681 **7** - Ten Color Repeating							
Wire Length Inches	**18 -** Total Length In Inches. "18" Specifies 18 Inches.							

How To Order Receptacle (Pin) Connectors								
Sample Part Number	**MWKQ2L9**	**-7**	**P**	**-6**	**K**	**7**	**-18**	
Series	**MWKQ2L9**							
No. of Contacts	**7**, **19** (See Table I and III)							
Contact Type	**P** - Pin							
Wire Gage (AWG)	**4** - #24 **6** - #26 **8** - #28 **0** - #30							
Wire Type	**K** - M22759/11 600 Vrms Fluropolymer (TFE) **J** - M22759/33 600 Vrms Modified Cross-Linked Fluropolymer (ETFE)							
Wire Color	**1** - White **2** - Yellow **7** - Ten Color Repeating							
Wire Length Inches	**18 -** Total Length In Inches. "18" Specifies 18 Inches.							

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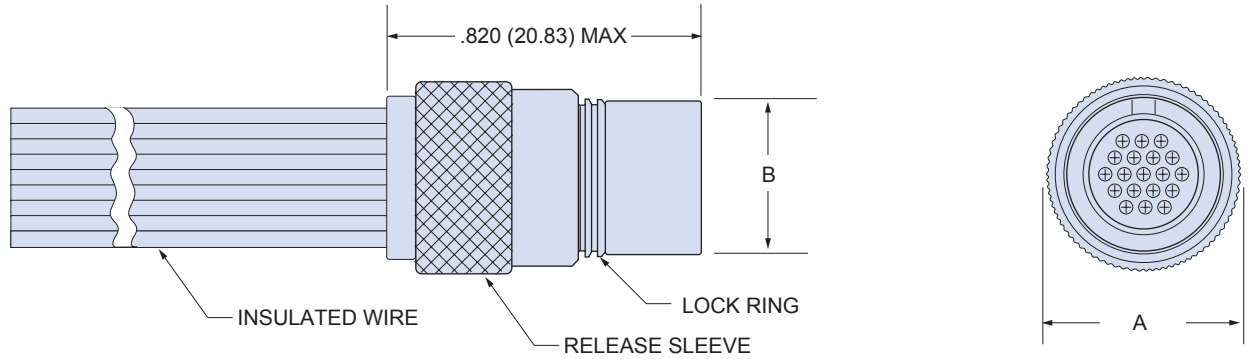
Quick Disconnect Micro Circular Connectors
MWKQ2L6 and MWKQ2L7

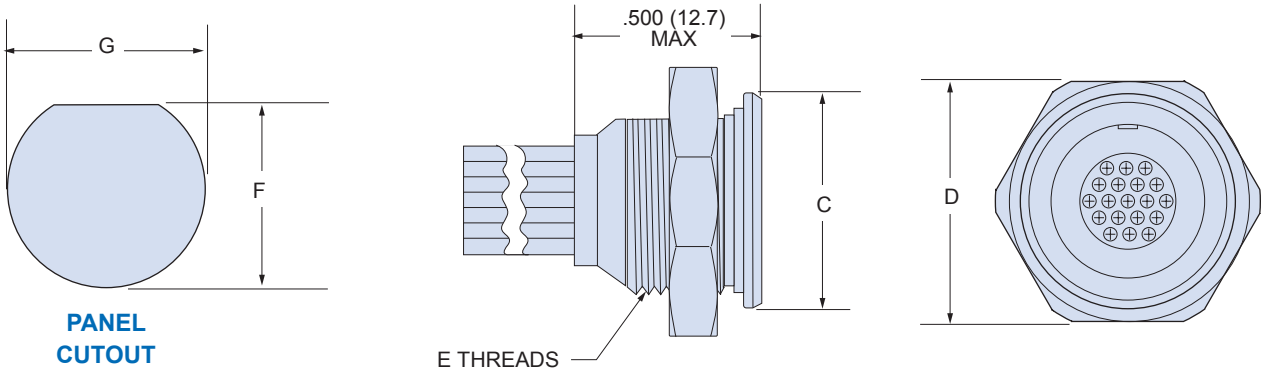
Performance Specifications	
Current Rating	3 AMP
Dielectric Withstanding Voltage	600 VAC Sea Level 150 VAC 70,000 Feet
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level CR	32 Milliohms Maximum
Operating Temperature	-55° C. to +150° C.
Shock	50 g.
Vibration	20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

Materials and Finishes	
Connector Shell,	Aluminum Alloy 6061 with Electroless Nickel Plating
Release Sleeve	Brass with Electroless Nickel Plating
Insulator	Liquid Crystal Polymer (LCP)
Lock Ring & Jam Nut	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

Table II: Dimensions



PLUG CONNECTOR MWKQ2L6



PANEL CUTOUT

FRONT PANEL MOUNT RECEPTACLE CONNECTOR MWKQ2L7

Layout	A Max.		B Max.		C Max.		D Hex.		E Thds.	F		G Dia.	
	In.	mm.	In .	mm.	In.	mm.	In.	mm.		In. ± .005	mm. ± 0.13	In.	mm.
7	.385	9.78	.305	7.75	.500	12.7	.500	12.70	.3125-32 UNEF-2A	.364	9.25	.390	9.91
19	.515	13.08	.405	10.28	.570	14.48	.625	15.88	.500-28 UNEF-2A	.475	12.07	.515	13.08

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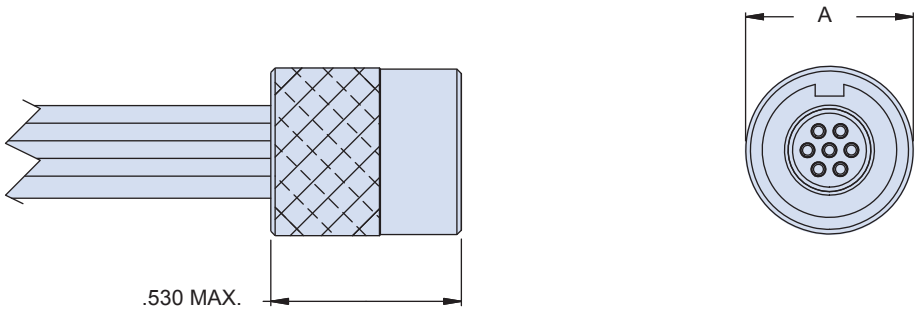
Quick Disconnect Micro Circular Connectors MWKQ2L8 and MWKQ2L9

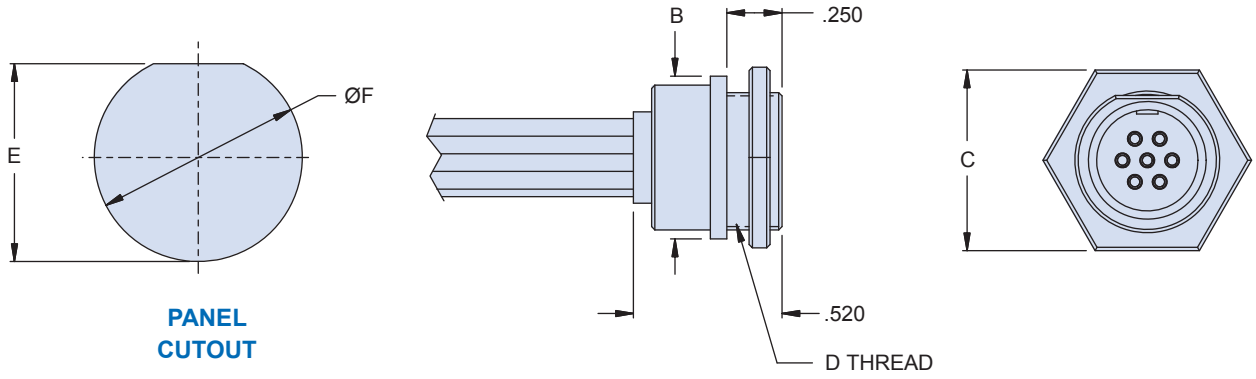
Performance Specifications	
Current Rating	3 AMP
Dielectric Withstanding Voltage	600 VAC Sea Level 150 VAC 70,000 Feet
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level CR	32 Milliohms Maximum
Operating Temperature	-55° C. to +150° C.
Shock	50 g.
Vibration	20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

Materials and Finishes	
Connector Shell,	Aluminum Alloy 6061 with Electroless Nickel Plating
Insulator	Liquid Crystal Polymer (LCP)
Lock Ring & Jam Nut	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

Table III: Dimensions



IN LINE RECEPTACLE MWKQ2L8



PANEL CUTOUT

REAR PANEL MOUNT RECEPTACLE CONNECTOR MWKQ2L9

Layout	ØA Max.		ØB Max		C		D Thread	E		ØF	
	In.	mm.	In .	mm.	In.	mm.		In.	mm.	In.	mm.
7	.415	10.54	.562	14.27	.562	14.27	7/16-28 UNEF	.425	10.80	.440	11.18
19	.545	13.84	.682	17.32	.682	17.32	9/16-24 UNEF	.535	10.80	.535	13.59

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