

MQR Series — Microminiature Circular Connectors



MQR stands for MICRODOT Quick Release. This line of circular quick disconnect connectors has metal shells with push-pull couplings which provide a positive connection for rugged environmental use. The MQR series is specified for cable-to-cable and cable-to-panel applications.

The plug connector side contains socket contacts. The receptacle connector side contains pin contacts. Because the pin contact is

“active” or “live”, the pins require the physical protection that the receptacle side offers. (Similar to a “protected” or “shrouded” header.)

While there is no optional hardware for the MQR series, the receptacles incorporate a standard jam nut to tighten the connector down to the board or panel.

MQR connectors are manufactured to the performance specifications of MIL-DTL-83513.

**How to Specify/
Ordering Code**

Connector Series
MQR — A — 37 — P

Shell, Material & Finish
A — Aluminum, Electroless Nickel Finish
B — Brass, Sulfamate Nickel Finish

Number of Contacts**
7, 19, 37*

Shell
P — Plug (Socket Contact)
F — Receptacle, Front Panel Mount (Pin Contact)
R — Receptacle, Rear Panel Mount (Pin Contact)

*uses twist pin contacts
** Other non-standard sizes are also available, contact Tyco Electronics for details.

Length in Inches (Min.)
6 — A — 1 — 18.0

Insulation Color or Finish
1 — All white
2 — All yellow
3 — All gray
4 — Gold plated
5 — Tin dipped gold plated
6 — Bare (unfinished)
7 — Color coded per MIL-STD-681, System I
9 — 10 Solid color repeating (starts with black)

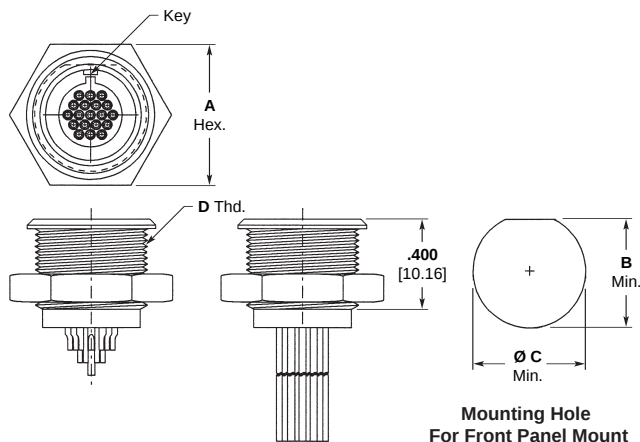
Wire Type
Per MIL-W-16878
A — Type E, 7 strand
B — Type ET, 7 strand
C — Type E, 19 strand
D — Type ET, 19 strand
F — 7 strand per MIL-W-22759/11 (28 AWG only)
G — 19 strand per MIL-C-22759/11 26 AWG, 24 AWG
L — Copper, solid
Q — Stranded per MIL-W-22759/33

Wire Size
4 — 24 AWG 5 — 25 AWG 6 — 26 AWG 8 — 28 AWG 0 — 30 AWG

Legend:
S — Solder pot
X — Special, Does not fit description.

Front Panel Mount (MQR Receptacle)

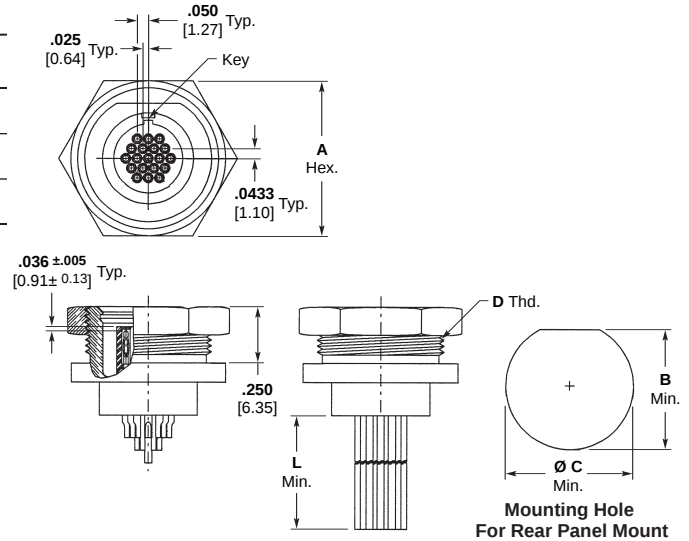
Size	Dimensions			
	A (Hex)	B (Min.)	Ø C (Min.)	D Thd.
7	.500 12.7	.361 9.17	.376 9.55	3/8-32 UNEF-2A
19	.625 15.88	.477 12.16	.501 12.73	1/2-28 UNEF-2A
37	.812 20.62	.722 18.39	.751 19.07	3/4-20 UNEF-2A



Front Panel Mount (19 Position Shown)

Rear Panel Mount (MQR Receptacle)

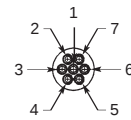
Size	Dimensions			
	A (Hex)	B (Min.)	Ø C (Min.)	D Thd.
7	.500 12.7	.422 10.72	.440 11.18	7/16-28 UNEF-2A
19	.687 17.45	.531 13.49	.564 14.33	9/16-24 UNEF-2A
37	.812 20.62	.722 18.39	.751 19.07	3/4-20 UNEF-2A



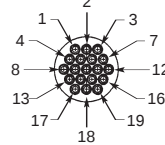
Rear Panel Mount (19 Position Shown)

Circular MQR Series Quick Release Receptacle

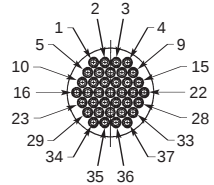
7 Position
(Stamped Pin)



19 Position
(Stamped Pin)



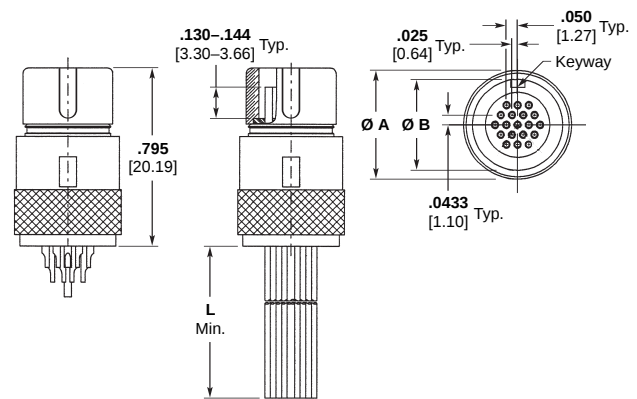
37 Position
(Twist Pin)



Circular MQR Series Quick Release Plug

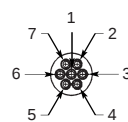
MQR Plug

Size	Dimensions	
	Ø A	Ø B
7	.375 9.53	.300 7.62
19	.475 12.07	.400 10.16
37	.750 19.05	.630 16.00

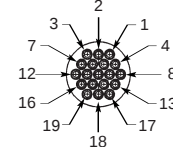


Plug (19 Position Shown)

7 Position



19 Position



37 Position

