

AAA CONNECTORS

PRODUCT BULLETIN 533

AAA Series Q-G® Twist Connector

Switchcraft introduces the AAA Series or Q-G® Twist XLR connectors. The Q-G® Twist Series is available in male or female cord plug, 3 through 7 pins or contacts. The unique features are the easy twist on combination handle/strain relief, and the reduced number of parts to assemble. With the insert built into the front shell, and the strain relief pre-loaded into the handle, the end user has only two parts to assemble — slide the handle onto the cable, solder the terminations, and twist on the handle. As the handle is tightened, the strain relief tightens around the outer jacket of the cable. A ramp on the strain relief keeps it from rotating around the cable jacket and twisting the cable. The strain relief was designed to accommodate the most popular cable sizes. A rugged die-cast metal handle insures optimum protection, and increases signal shielding. Popular options include black and gold finishes, as well as a lower cost plastic handle version. Complete specifications are on the back of this bulletin.

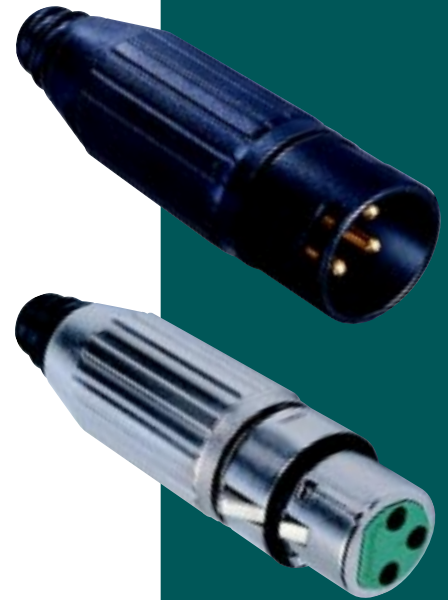
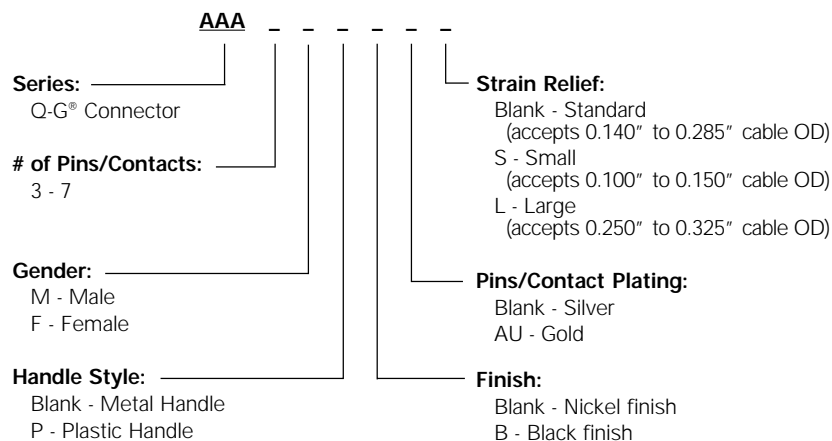
Features and Benefits

- Only two pieces to assemble
- Easy twist on handle reduces assembly time
- Rugged die-cast metal handle
- Strain relief accommodates wide cable OD ranges
- Black finish available
- Gold-plated pins/contacts available
- Lower cost plastic handle version available

Markets

- Audio
- Medical
- Instrumentation
- Process Controls

Ordering Information



AAA Series Q-G Twist Connector

Specifications

Electrical

Contact Resistance: 50 milliohm maximum, per pole.

Current Rating @ 125VAC:

- 3 pole - 15A
- 4 pole - 10A
- 5 & 6 pole - 7.5A
- 7 pole - 5A

Insulation Resistance: 1,000 M Ω , minimum.

Dielectric Withstanding Voltage: 1,000 V (rms)

Capacitance: ≤ 3 pF between pins and ≤ 6 pF between pins and shell, maximum

Mechanical

Insertion/Withdrawal Forces: 10 lbs. maximum, 8 lbs. nominal / 7 lbs. maximum, 5 pounds nominal.

Wire Size:

3 Contact

- #12 wire gauge solid
- #14 wire gauge stranded

4 Contact

- #14 wire gauge solid
- #16 wire gauge stranded

5 & 6 Contact

- #16 wire gauge solid
- #18 wire gauge stranded

7 Contact

- #18 wire gauge solid
- #20 wire gauge stranded

Material

Shell: Die-Cast zinc with nickel finish or black chrome.

Handle: Die cast with nickel finish or black chrome. Also black thermoplastic handle available.

O Ring: TPR (Thermoplastic rubber).

Insert Insulation: Molded thermoplastic.

Socket Contacts: Silver plated copper alloy tarnish resistant; bifurcated on 3 and 4 contact types. Gold is available.

Pin Contacts: Silver plated copper alloy. Resists tarnishing, and provides excellent electrical conductivity. Gold is available.

Latch lock: High strength die cast zinc.

Multi-finger cable clamp and rubber gasket: TPR (Thermoplastic plastic & rubber)

Flex Relief: TPR (Thermoplastic rubber)

