

# Switchcraft®

## Shielded Mini XLR Tini-QG® Series



### Shielded Tini-QG®

#### Features & Benefits:

- Protects circuits from EMI & RF interference
- Sturdy construction with rugged precision machined metal parts and high dimensional stability thermoplastic molded parts
- Latchlock – positive latching systems assures high integrity vibration resistant mating
- Strain relief available for all versions

### Tini-QG® Cap

#### Features & Benefits:

- Provides dust protection for the panel when not connected to cable end
- IP rating of IP50
- Flexible thermoplastic elastomer construction



**Switchcraft®**

Harsh Environment  
Connectivity Solutions



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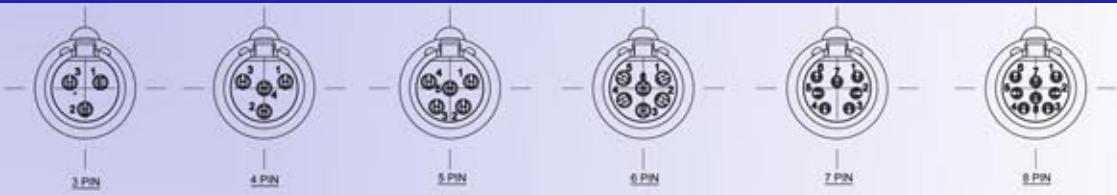
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New Product Bulletin 591

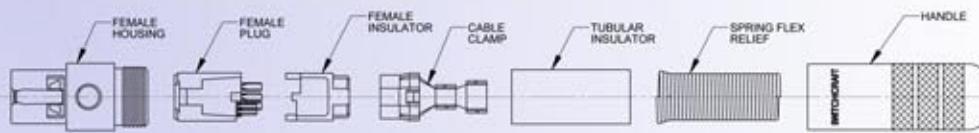
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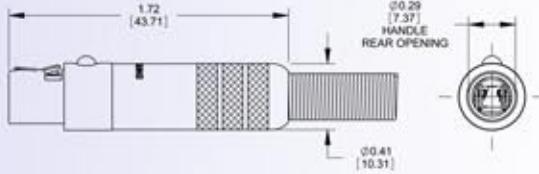


SCALE 3:1



T A \* \* \* S H \*

- CONTACT PLATING
- BLANK - SILVER (STANDARD)
- AU - GOLD
- CONTACTS
- M - MALE
- F - FEMALE
- NUMBER OF CONTACTS
- 3 - 3 CONTACTS
- 4 - 4 CONTACTS
- 5 - 5 CONTACTS
- 6 - 6 CONTACTS
- 7 - 7 CONTACTS
- 8 - 8 CONTACTS



### Tini-QG® Cap Specifications:

**Material Specifications:** Thermoplastic elastomer

#### Part Numbers:

TINICAP

TINICAPTB

### Shielded Tini-QG® Specifications:

#### Electrical Specifications (3-5 Cord Mount Only)

**Contact Resistance:** .010 ohms maximum after life (and after salt spray)

**Current Rating (Carry Only):** 5 A, 125 VAC (4 A, 125 VAC on 5 circuit) based on 30°C Maximum

**Insulation Resistance:** 510,000 MΩ minimum @ 500 VDC (initial); 10,000 MΩ minimum (after humidity test)

**Dielectric Strength:** 1,000 V (rms)

#### Electrical Specifications (6-8 Cord Mount and all receptacles & adapters)

**Contact Resistance:** 0.010 ohms maximum after life

**Current Rating (Carry Only):** 1.5 A, 125 VAC based on 30°C Maximum

**Insulation Resistance:** 510,000 MΩ minimum @ 500 VDC (initial)

**Dielectric Strength:** 250 V (rms)

#### Material Specifications

**Housing:** Copper alloy, nickel plated

**Contacts:** Copper alloy, silver or gold plated

**Cable Clamp/Ground Terminal:** Steel, electro-tin plated

**Inserts and Insulating Spacer:** Thermoplastic (UL-94V-0)

**Handle:** Copper alloy, nickel plated

**Latch (female only):** Copper alloy, nickel plated

**Latch Button (female only):** Thermoplastic

**Tubular Insulator:** Fish paper

**Spring Flex Relief (optional):** Stainless steel

#### Mechanical Specifications (3-5 Cord Mount Only)

**Life:** 5,000 operations minimum

**Insertion/Withdrawal Forces (after life):** 6.1 lb/2.77 kg insertion; 5.6 lb/2.54 kg withdrawal

**Solderability Standard:** Meets EIA RS-186-9E

**Mechanical Shock:** Meets MIL-STD-202, method 213B

**Vibration:** Meets MIL-STD-202, Method 201A

**Wire Size:** #22 wire gauge solid; #24 wire gauge stranded

#### Mechanical Specifications (6-8 Cord Mount and all receptacles & adapters)

**Life:** 2,000 operations minimum

**Insertion/Withdrawal Forces (after life):** 13 lb/5.9 kg insertion; 13 lb/5.9 kg Maximum withdrawal

**Solderability Standard:** Meets EIA RS-186-9E

**Mechanical Shock:** Meets MIL-STD-202, method 213B

**Vibration:** Meets MIL-STD-202, Method 201A

**Wire Size:** #28 wire gauge stranded

#### Environmental Specifications

**Thermal Range:** -55°C to +85°C

**Humidity:** Meets MIL-STD-202, method 106D

**Thermal Shock:** Meets MIL-STD-202, method 107D

**Salt Spray:** Meets MIL-STD-202, method 101

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