Toggle Switches

Bat Handle

Features
- Neoprene Seal Toggle (54–456 thru 54–459, 54–659 ONLY)
- Slow Make, Slow Break Contacts
- AC Rated, Suitable for Low Voltage DC Also
- Standard .500" Dia Mounting Hole
- Various Terminal Selections

NTE Type No. | Circuitry | Action | Actuator | Diag No.
--- | --- | --- | --- | ---
54−001 | SPST | UN | NONE | (OFF) | Brass/Nickel Plate S1c
54−002 | SPDT | (ON) | OFF | (ON) | Brass/Nickel Plate S1c
54−007 | SPST | UN | NONE | OFF | Brass/Nickel Plate S1b
54−008 | SPST | UN | NONE | OFF | Brass/Nickel Plate S1b
54−009 | SPDT | ON | OFF | ON | Brass/Nickel Plate S1c
54−010 | SPST | ON | OFF | ON | Brass/Nickel Plate S1d
54−024 | SPST | ON | NONE | OFF | Brass/Nickel Plate S1d
54−025 | SPST | ON | NONE | OFF | Brass/Nickel Plate S1d
54−456* | SPST | ON | NONE | OFF | Brass/Nickel Plate S1c
54−457* | SPST | (ON) | NONE | OFF | Brass/Nickel Plate S1c
54−458* | SPST | ON | NONE | OFF | Brass/Nickel Plate S1b
54−459* | SPDT | ON | OFF | ON | Brass/Nickel Plate S1b
54−659* | SPDT | (ON) | OFF | (ON) | Brass/Nickel Plate S1b

SPECIAL NOTE: ( ) = Momentary Function
* Neoprene Seal Toggle

Bat Handle

Features
- Quick Make, Quick Break Wiping Action
- 6" Wire Leads
- Brass or Plastic Actuator

NTE Type No. | Circuitry | Action | Actuator | Diag No.
--- | --- | --- | --- | ---
54−130 | SPST | OFF | NONE | ON | Brass/Nickel Plate S36
54−131 | SPST | OFF | NONE | ON | Plastic S36

Specifications

Current Rating: 15A 125VAC, 10A 250VAC, 3/4 HP 125–250VAC
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V RMS (min.)
Temperature Rating: 0° to +150°F (+17.8° to +65.6°C)
Electrical Life: 50,000 cycles maintained, 25,000 cycles momentary
Mechanical Life: 100,000 cycles
Terminal Type: Refer to Diag No. in Table
Mounting Hole: .500 (12.7)

S36

NTE Type No. | Circuitry | Action | Actuator | Diag No.
--- | --- | --- | --- | ---
54−130 | SPST | OFF | NONE | ON | Brass/Nickel Plate S36
54−131 | SPST | OFF | NONE | ON | Plastic S36

Specifications

Current Rating: 10A 125VAC, 8A 125VDC, 4A 250VDC, 1/3 HP 125VAC
Dielectric Strength: 1000V RMS (min.)
Temperature Rating: +149°F (+65°C) Max
Electrical Life: 25,000 cycles Min
Mechanical Life: 100,000 cycles
Terminal Type: Integrated Wire
Mounting Hole: .500 (12.7)
**Toggle Switches**

**Bat Handle**

**Features**
- Slow Make, Slow Break Contacts
- AC Rated, Suitable for Low Voltage DC Also
- Standard .500" Dia Mounting Hole
- Screw Mount Terminals

---

**Bat Handle**

**Features**
- AC Rated, General Purpose
- Industry Standard .500" Dia Mounting Hole
- .250" Quick Connect Terminals

---

**NTE Type No.**

<table>
<thead>
<tr>
<th>Circuitry</th>
<th>Action</th>
<th>Actuator</th>
<th>Diag No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>54−005</td>
<td>SPST</td>
<td>ON</td>
<td>NONE</td>
</tr>
<tr>
<td>54−098</td>
<td>SPDT</td>
<td>ON</td>
<td>NONE</td>
</tr>
</tbody>
</table>

SPECIAL NOTE: ( ) = Momentary Function

**Specifications**

**Current Rating:** 6A 125VAC, 3A 250VAC, 1/4 HP 120–240VAC
**Insulation Resistance:** 100 Megohms (min.)
**Dielectric Strength:** 1000V RMS (min.)
**Temperature Rating:** 0° to +150°F (~−17.8° to +65.6°C)
**Electrical Life:** 50,000 cycles
**Mechanical Life:** 100,000 cycles
**Terminal Type:** Screw Type
**Mounting Hole:** .500 (12.7)

---

**NTE Type No.**

<table>
<thead>
<tr>
<th>Circuitry</th>
<th>Action</th>
<th>Actuator</th>
<th>Diag No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>54−005</td>
<td>SPST</td>
<td>ON</td>
<td>NONE</td>
</tr>
<tr>
<td>54−098</td>
<td>SPDT</td>
<td>ON</td>
<td>NONE</td>
</tr>
</tbody>
</table>

**Specifications**

**Current Rating:**
- 54−005: 20A 125VAC, 10A 250VAC, 1 1/2 HP 125–250VAC
- 54−098: 10A 125VAC, 5A 250VAC, 1/2 HP 125–250VAC
**Insulation Resistance:** 100 Megohms (min.)
**Dielectric Strength:** 1000V RMS (min.)
**Temperature Rating:** +32° to +185°F (0° to +85°C)
**Electrical Life:** 25,000 cycles
**Mechanical Life:** 100,000 cycles
**Terminal Type:** .250" Tab Q.C.
**Mounting Hole:** .500 (12.7)
Toggle Switches

Bat Handle

Features
- Slow-Make/Slow-Break Butt Contact
- 1 HP, 125–250VAC

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Action</th>
<th>Actuator</th>
<th>Diag No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>54-590</td>
<td>DPST</td>
<td>ON</td>
<td>OFF</td>
<td>S98b</td>
</tr>
<tr>
<td>54-591</td>
<td>DPST</td>
<td>ON</td>
<td>OFF</td>
<td>S98b</td>
</tr>
<tr>
<td>54-592</td>
<td>DPST</td>
<td>ON</td>
<td>OFF</td>
<td>S98b</td>
</tr>
</tbody>
</table>

SPECIAL NOTE: ( ) = Momentary Function

Specifications

Current Rating: 20A 125VAC, 10A 250VAC, 1 HP 125–250VAC
Insulation Resistance: 10^9 ohms (min.)
Dielectric Strength: 1500V RMS (min.)
Temperature Rating: +14°F to +149°F (-10°C to +65°C)
Electrical Life: 10,000 cycles (min.) at full load
Mechanical Life: 30,000 cycles (min.)
Terminal Type: Refer to Diag. No. in Table
Mounting Hole: .500 (12.7)

Bat Handle

Features
- Slow-Make/Slow-Break Butt Contact
- 1 HP, 125–250VAC

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Action</th>
<th>Actuator</th>
<th>Diag No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>54-579</td>
<td>SPST</td>
<td>ON</td>
<td>NONE OFF</td>
<td>S97b</td>
</tr>
<tr>
<td>54-580</td>
<td>SPST</td>
<td>ON</td>
<td>NONE OFF</td>
<td>S97b</td>
</tr>
<tr>
<td>54-581</td>
<td>SPST</td>
<td>ON</td>
<td>NONE (OFF)</td>
<td>S97b</td>
</tr>
<tr>
<td>54-582</td>
<td>SPDT</td>
<td>ON</td>
<td>OFF ON</td>
<td>S97b</td>
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<tr>
<td>54-583</td>
<td>SPDT</td>
<td>ON</td>
<td>OFF (UN)</td>
<td>S97b</td>
</tr>
<tr>
<td>54-584</td>
<td>SPDT</td>
<td>ON</td>
<td>NONE ON</td>
<td>S97b</td>
</tr>
<tr>
<td>54-585</td>
<td>SPDT</td>
<td>ON</td>
<td>NONE (OFF)</td>
<td>S97b</td>
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<tr>
<td>54-586</td>
<td>SPDT</td>
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<td>NONE ON</td>
<td>S97b</td>
</tr>
<tr>
<td>54-587</td>
<td>SPDT</td>
<td>(ON)</td>
<td>NONE (OFF)</td>
<td>S97b</td>
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<td>54-588</td>
<td>SPDT</td>
<td>(ON)</td>
<td>OFF ON</td>
<td>S97b</td>
</tr>
<tr>
<td>54-589</td>
<td>SPDT</td>
<td>(ON)</td>
<td>OFF (UN)</td>
<td>S97b</td>
</tr>
<tr>
<td>54-590</td>
<td>DPST</td>
<td>ON</td>
<td>NONE OFF</td>
<td>S98b</td>
</tr>
<tr>
<td>54-591</td>
<td>DPST</td>
<td>ON</td>
<td>NONE OFF</td>
<td>S98b</td>
</tr>
<tr>
<td>54-592</td>
<td>DPST</td>
<td>ON</td>
<td>NONE OFF</td>
<td>S98b</td>
</tr>
</tbody>
</table>

Specifications

Current Rating: 20A 125VAC, 10A 250VAC, 1 HP 125–250VAC
Insulation Resistance: 10^9 ohms (min.)
Dielectric Strength: 1500V RMS (min.)
Temperature Rating: +14°F to +149°F (-10°C to +65°C)
Electrical Life: 10,000 cycles (min.) at full load
Mechanical Life: 30,000 cycles (min.)
Terminal Type: 250° Tab Q.C.
Mounting Hole: .500 (12.7)
**Toggle Switches**

**Bat Handle**

**Features**
- Slow-Make/Slow-Break Butt Contact
- 3/4 HP, 125–250VAC

---

**Specifications**

<table>
<thead>
<tr>
<th>Current Rating:</th>
<th>20A 125VAC, 10A 250VAC, 3/4 HP 125–250VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insulation Resistance:</td>
<td>10^9 ohms (min.)</td>
</tr>
<tr>
<td>Dielectric Strength:</td>
<td>1000V RMS (min.)</td>
</tr>
<tr>
<td>Temperature Rating:</td>
<td>+14°F to +149°F (-10°C to +65°C)</td>
</tr>
<tr>
<td>Electrical Life:</td>
<td>10,000 cycles (min.) at full load</td>
</tr>
<tr>
<td>Mechanical Life:</td>
<td>30,000 cycles (min.)</td>
</tr>
<tr>
<td>Terminal Type:</td>
<td>Refer to Diag. No. in Table</td>
</tr>
<tr>
<td>Mounting Hole:</td>
<td>.500 (12.7)</td>
</tr>
</tbody>
</table>

---

**S97**

---

**S98**

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NTE Electronics, Inc. ● Voice (973) 748–5089 ● FAX (973) 748–6224 ● http://www.nteinc.com

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Bat Handle

Features
- Quick Make, Quick Break Contacts
- AC/DC Shallow Back Panel Applications
- Standard .500" Dia Mounting Hole

Specifications
- Current Rating: 6A 125VAC, 3A 250VAC, AC/DC
- Insulation Resistance: 100 Megohms (min.)
- Dielectric Strength: 1000V RMS (min.)
- Temperature Rating: 0°C to +150°C (-17.8°F to +65.6°F)
- Electrical Life: 25,000 cycles
- Terminal Type: Refer to Diag No. in Table
- Mounting Hole: .500 (12.7)

Special Note: ( ) = Momentary Function
**Toggle Switches**

### Bat Handle

#### Features
- Waterproof Types Available on Page 159

#### Specifications
- Current Rating: 1A 250VAC or 10A 24VDC, 15A 12VDC
- Insulation Resistance: 1000 Megohms (min.) at 500VDC
- Dielectric Strength: 2000V RMS (min.) between terminals
- Temperature Rating: -4 to +131°F (-20 to +55°C)
- Electrical Life: 10,000 cycles (min.) at full load
- Terminal Type: Refer to Diag No. in Table
- Mounting Hole: A80 (12.2)

### Bat Handle

#### Features
- Quick Make, Quick Break Contacts
- Suitable for High Amperage AC/DC Motor Control
- Screw Terminals

#### Specifications
- Current Rating: 16A 125VAC, 8A 250VAC, 1 HP 125–250VAC
- Insulation Resistance: 100 Megohms (min.)
- Dielectric Strength: 1000V RMS (min.)
- Temperature Rating: 0° to +150°F (−17.8° to +65.6°C)
- Electrical Life: 25,000 cycles
- Mechanical Life: 100,000 cycles
- Terminal Type: Screw Type
- Mounting Hole: .500 (12.7)
**Toggle Switches**

### Bat Handle

![Bat Handle Switch](image)

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Action</th>
<th>Actuator</th>
<th>Diag No.</th>
</tr>
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<tbody>
<tr>
<td>54-057</td>
<td>DPST</td>
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<td>NONE</td>
<td>OFF</td>
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</table>

**Specifications**

**Current Rating:** 20A 125VAC, 10A 250VAC, 1 1/2 HP 125–250VAC  
**Insulation Resistance:** 100 Megohms (min.)  
**Dielectric Strength:** 1000V RMS (min.)  
**Temperature Rating:** 0°F to +150°F (−17.8°C to +65.6°C)  
**Electrical Life:** 25,000 cycles  
**Mechanical Life:** 100,000 cycles  
**Terminal Type:** Screw Type  
**Mounting Hole:** .500 (12.7)

### S9

![S9 Diagram](image)

**Keyway:** .072 (1.82) x .038 (.965) DP  
**Thermal:** .465 (11.81)  
**Terminal Types:** Screw (Assembled)

**Specifications**

**Current Rating:** 15A 125VAC, 10A 250VAC, 3/4 HP 125–250VAC  
**Insulation Resistance:** 100 Megohms (min.)  
**Dielectric Strength:** 1000V RMS (min.)  
**Temperature Rating:** +32°F to +185°F (0°C to +85°C)  
**Electrical Life:** 50,000 cycles  
**Mechanical Life:** 100,000 cycles  
**Terminal Type:** "3-in-1" Combi-Terminal  
**Mounting Hole:** .500 (12.7)
Bat Handle

Features
- Slow Make, Slow Break Contacts
- Heavy Duty AC Rated Also Suitable for Low Voltage DC Applications
- Industry Standard .500” Dia Mounting Hole
- Various Terminal Selections

### NTE Type No. Circuitry Current Rating Action Actuator Diag No.

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Current Rating</th>
<th>Action</th>
<th>Actuator</th>
<th>Diag No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>54-003</td>
<td>UPST</td>
<td>A</td>
<td>ON</td>
<td>Brass/Nickel Plate</td>
<td>S14c</td>
</tr>
<tr>
<td>54-004</td>
<td>UPST</td>
<td>A</td>
<td>UN</td>
<td>Brass/Nickel Plate</td>
<td>S14c</td>
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<tr>
<td>54-011</td>
<td>DPST</td>
<td>A</td>
<td>ON</td>
<td>Brass/Nickel Plate</td>
<td>S14c</td>
</tr>
<tr>
<td>54-012</td>
<td>DPST</td>
<td>A</td>
<td>OFF</td>
<td>Brass/Nickel Plate</td>
<td>S14c</td>
</tr>
<tr>
<td>54-013</td>
<td>DPST</td>
<td>A</td>
<td>OFF</td>
<td>Brass/Nickel Plate</td>
<td>S14c</td>
</tr>
<tr>
<td>54-014</td>
<td>SPST</td>
<td>B</td>
<td>UN</td>
<td>Brass/Nickel Plate</td>
<td>S14c</td>
</tr>
<tr>
<td>54-015</td>
<td>SPST</td>
<td>B</td>
<td>UN</td>
<td>Brass/Nickel Plate</td>
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<tr>
<td>54-016</td>
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<td>UN</td>
<td>Brass/Nickel Plate</td>
<td>S14c</td>
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<tr>
<td>54-017</td>
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<td>Brass/Nickel Plate</td>
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<td>54-018</td>
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<td>54-019</td>
<td>SPST</td>
<td>A</td>
<td>UN</td>
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<td>S14c</td>
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</table>

### S10

#### Terminal Types

<table>
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<tr>
<th>Keyway</th>
<th>.072 (1.82) x .038 (9.65) DP</th>
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</table>

#### Specifications

- **Current Rating:**
  - A: 15A 125VAC, 10A 250VAC, 3/4 HP 125-250VAC
  - B: 20A 125-277VAC, 1 1/2 HP 125VAC, 2 HP 250VAC
  - C: 6A 125VAC, 3A 250VAC, 1/4HP 125-250VAC
  - D: 20A 250VAC
  - E: 10A 277VAC, 20A 125VAC, 1 1/2 HP 125-250VAC

- **Insulation Resistance:** 100 Megohms (min.)

- **Dielectric Strength:** 1000V RMS (min.), 1500V (54-099 only)

- **Temperature Rating:** +32°F to +185°F (-0°C to +85°C)

- **Electrical Life:** 50,000 cycles

- **Mechanical Life:** 100,000 cycles

### NTE Type No. Circuitry Action Actuator Diag No.

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Action</th>
<th>Actuator</th>
<th>Diag No.</th>
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<tr>
<td>54-019</td>
<td>4PDT</td>
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<td>NONE</td>
<td>ON</td>
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</table>
Bat Handle w/Indicator Plate

Features
- Includes Indicator Plate

<table>
<thead>
<tr>
<th>NTE Type No.</th>
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<th>Action</th>
<th>Actuator</th>
<th>Dia No.</th>
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<td>S4-718</td>
<td>DPDT</td>
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</table>

Round Hole Bat Handle

Features
- Round Hole Type
- Optional Indicator Plate, 54–928
- Optional Waterproof Boot, 54–929

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Action</th>
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<th>Dia No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>S4-722</td>
<td>SPDT</td>
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<td>NONE</td>
<td>ON</td>
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</tbody>
</table>

Specifications

Current Rating: 3A 125VAC, 1.5A 250VAC
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V RMS (min.)
Temperature Rating: −13° to +185°F (−25° to +85°C)
Electrical Life: 6,000 cycles
Mechanical Life: 10,000 cycles
Terminal Type: Solder Lug
Mounting Hole: .480 (12.2) Max.

Specifications

Current Rating: 6A 125VAC, 3A 250VAC
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V RMS (min.)
Temperature Rating: −4° to +185°F (−20° to +85°C)
Electrical Life: 6,000 cycles
Mechanical Life: 10,000 cycles
Terminal Type: Solder Lug
Mounting Hole: .480 (12.2) Max.
### Bat Handle

**S142**

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Action</th>
<th>Actuator</th>
<th>Diag No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>54-738</td>
<td>SPST</td>
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<td>NONE</td>
<td>OFF</td>
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</table>

**Specifications**

- **Current Rating**: 10A 125VAC, 6A 250VAC
- **Insulation Resistance**: 100 Megohms (min.) at 500VDC
- **Dielectric Strength**: 1000V RMS (min.)
- **Temperature Rating**: +32°F to +149°F (0°C to +65°C)
- **Electrical Life**: 6,000 cycles
- **Mechanical Life**: 10,000 cycles
- **Terminal Type**: .250" Tab Q.C.
- **Mounting Hole**: .480 (12.2)

### Bat and Paddle Handle

**S136**

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Action</th>
<th>Actuator</th>
<th>Diag No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>54-745</td>
<td>SPST</td>
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<td>NONE</td>
<td>OFF</td>
</tr>
<tr>
<td>54-745-R</td>
<td>SPST</td>
<td>ON</td>
<td>NONE</td>
<td>OFF</td>
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</tbody>
</table>

**Specifications**

- **Current Rating**: 6A 125VAC, 3A 250VAC
- **Insulation Resistance**: 100 Megohms (min.) at 500VDC
- **Dielectric Strength**: 1500V RMS (min.)
- **Temperature Rating**: −4°F to +185°F (−20°C to +85°C)
- **Electrical Life**: 6,000 cycles
- **Mechanical Life**: 10,000 cycles
- **Terminal Type**: Solder Lug
- **Mounting Hole**: .472 (12.0)
Long Bat Handle

Features
- 50 Amps at 12VDC
- 1 5/8" Long Bat Handle
- Screw Terminals

ON/OFF Bat Handle and Duckbill

Features
- Illuminated Types Available on Page 161
- Bat Handle (54−566, 54−571−2) and Duckbill (54−571) Types
- .250" Quick−Connect Terminals

Specifications
- Current Rating: 50A 12VDC
- Insulation Resistance: 100 Megohms (min.) at 500VDC
- Dielectric Strength: 1500V RMS (min.)
- Temperature Rating: −4° to +180°F (−20° to +85°C)
- Electrical Life: 25,000 cycles
- Mechanical Life: 100,000 cycles
- Terminal Type: Screw Type
- Mounting Hole: .500 (12.7)

Specifications
- Current Rating: 20A 12VDC
- Insulation Resistance: 100 Megohms (min.) at 500VDC
- Dielectric Strength: 1000V RMS (min.)
- Temperature Rating: −4° to +180°F (−20° to +85°C)
- Electrical Life: 25,000 cycles
- Mechanical Life: 100,000 cycles
- Terminal Type: .250" Tab Q.C.
- Mounting Hole: .500 (12.7)
**Bat Handle, Subminiature**

**Features**
- Single and Double Pole Types
- Epoxy Sealed Terminals

### S86

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Action</th>
<th>Actuator</th>
<th>Diag No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>54−140</td>
<td>SPST</td>
<td>ON</td>
<td>NONE</td>
<td>OFF</td>
</tr>
<tr>
<td>54−141</td>
<td>SPDT</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
</tr>
<tr>
<td>54−142</td>
<td>DPDT</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
</tr>
</tbody>
</table>

*SPECIAL NOTE: ( ) = Momentary Function

### S95

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Action</th>
<th>Actuator</th>
<th>Diag No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>54−395</td>
<td>SPST</td>
<td>ON</td>
<td>NONE</td>
<td>OFF</td>
</tr>
</tbody>
</table>

### Specifications

**S86**
- **Current Rating:** 3A 120VAC or 28VDC, 1.5A 250VAC
- **Insulation Resistance:** 1000 Megohms (min.)
- **Dielectric Strength:** 1500V RMS (min.)
- **Temperature Rating:** $-22^\circ$ to $+185^\circ$F ($-30^\circ$ to $+85^\circ$C)
- **Electrical Life:** 30,000 cycles (min.)
- **Terminal Type:** Solder Lug
- **Mounting Hole:** .192 (4.9)

**S95**
- **Current Rating:** 5A 120VAC or 28VDC, 2A 250VAC
- **Insulation Resistance:** 1000 Megohms (min.)
- **Dielectric Strength:** 1000V RMS (min.)
- **Temperature Rating:** $-22^\circ$ to $+266^\circ$F ($-30^\circ$ to $+130^\circ$C)
- **Electrical Life:** 50,000 cycles (min.)
- **Terminal Type:** Solder Lug
- **Mounting Hole:** .250 (6.35)
Mini Bat Handle

Features
- SP, DP, 3P & 4P Types
- Epoxy Sealed Terminals
- Typical Applications Include: Switching Power Supplies, DC–DC Converters, Motors, etc.

Wiring Diagram (54-306 Only)

Equivalent to single pole 3 throw switch. Dotted line between terminals 2 & 6 indicate external jumpers to be added by customer.

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Action</th>
<th>Actuator</th>
<th>Diag No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>54-301</td>
<td>DPDT</td>
<td>UN</td>
<td>N/UN</td>
<td>UN Chrome Plated Brass</td>
</tr>
<tr>
<td>54-302</td>
<td>DPDT</td>
<td>UN</td>
<td>N/UN</td>
<td>UN Chrome Plated Brass</td>
</tr>
<tr>
<td>54-303</td>
<td>DPDT</td>
<td>UN</td>
<td>OFF</td>
<td>UN Chrome Plated Brass</td>
</tr>
<tr>
<td>54-304</td>
<td>DPDT</td>
<td>(ON)</td>
<td>OFF</td>
<td>UN Chrome Plated Brass</td>
</tr>
<tr>
<td>54-305</td>
<td>DPDT</td>
<td>UN</td>
<td>UN</td>
<td>UN Chrome Plated Brass</td>
</tr>
<tr>
<td>54-306</td>
<td>DPDT</td>
<td>UN</td>
<td>OFF</td>
<td>UN Chrome Plated Brass</td>
</tr>
<tr>
<td>54-307</td>
<td>DPDT</td>
<td>UN</td>
<td>N/UN</td>
<td>UN Chrome Plated Brass</td>
</tr>
<tr>
<td>54-308</td>
<td>DPDT</td>
<td>UN</td>
<td>OFF</td>
<td>UN Chrome Plated Brass</td>
</tr>
<tr>
<td>54-309</td>
<td>DPDT</td>
<td>UN</td>
<td>N/UN</td>
<td>UN Chrome Plated Brass</td>
</tr>
<tr>
<td>54-310</td>
<td>DPDT</td>
<td>ON</td>
<td>OFF</td>
<td>UN Chrome Plated Brass</td>
</tr>
<tr>
<td>54-311</td>
<td>DPDT</td>
<td>ON</td>
<td>N/UN</td>
<td>ON Chrome Plated Brass</td>
</tr>
<tr>
<td>54-312</td>
<td>DPDT</td>
<td>ON</td>
<td>OFF</td>
<td>ON Chrome Plated Brass</td>
</tr>
<tr>
<td>54-313</td>
<td>DPDT</td>
<td>UN</td>
<td>OFF</td>
<td>ON Chrome Plated Brass</td>
</tr>
<tr>
<td>54-314</td>
<td>DPDT</td>
<td>(UN)</td>
<td>OFF</td>
<td>(UN) Chrome Plated Brass</td>
</tr>
<tr>
<td>54-315</td>
<td>DPDT</td>
<td>UN</td>
<td>OFF</td>
<td>(UN) Chrome Plated Brass</td>
</tr>
<tr>
<td>54-316</td>
<td>DPDT</td>
<td>ON</td>
<td>N/UN</td>
<td>(UN) Chrome Plated Brass</td>
</tr>
<tr>
<td>54-317</td>
<td>DPDT</td>
<td>ON</td>
<td>OFF</td>
<td>(UN) Chrome Plated Brass</td>
</tr>
<tr>
<td>54-318</td>
<td>DPDT</td>
<td>(ON)</td>
<td>OFF</td>
<td>(UN) Chrome Plated Brass</td>
</tr>
<tr>
<td>54-319</td>
<td>DPDT</td>
<td>UN</td>
<td>OFF</td>
<td>(UN) Chrome Plated Brass</td>
</tr>
</tbody>
</table>

SPECIAL NOTE: ( ) = Momentary Function
*SP in DP case.

For Economy Versions, see page 151.
Mini Bat Handle

Features
- Economy Series
- SP, DP, 3P & 4P Types
- PC Terminal Types Available (PC suffix)
- Epoxy Sealed Terminals
- Typical Applications Include: Switching Power Supplies, DC–DC Converters, Motors, etc.

Specifications
Current Rating: 5A 120VAC or 28VDC, 2A 250VAC
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1000V RMS (min.)
Temperature Rating: −22°F to +185°F (−30°C to +85°C)
Electrical Life: 50,000 cycles (min.) at full load
Terminal Type: Refer to Diag No. in Table
Mounting Hole: .250 (6.35)

Special Note: ( ) = Momentary Function
Toggle Switches

Flatted Handle Mini

**Features**
- SP, DP, 3P & 4P Types
- Epoxy Sealed Terminals
- Typical Applications Include: Switching Power Supplies, DC–DC Converters, Motors, etc.

**Specifications**

**Current Rating:** 6A 125VAC, 3A 250VAC or 4A 30VDC

**Insulation Resistance:** 1000 Megohms (min.) at 500VDC

**Dielectric Strength:** 1000V RMS (min.) between terminals

**Temperature Rating:** −40° to +185°F (−40° to +85°C)

**Electrical Life:**
- 50,000 cycles (min.)
- 40,000 cycles (min.) 3 Pole Only
- 30,000 cycles (min.) 4 Pole Only

**Terminal Type:** Solder Lug

**Mounting Hole:** .255 (6.5)
### Nylon Paddle

**Features**
- Nylon Insulated Toggle
- Self-Cleaning Wiping Contacts
- Industry Standard .500" Dia Mounting Hole
- Support Double Insulated Requirements

#### Specifications

Current Rating: 20A 125VAC, 10A 250VAC, 1 1/2 HP 125-250VAC
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V RMS (min.)
Temperature Rating: +32°F to +185°F (0°C to +85°C)
Electrical Life: 25,000 cycles
Mechanical Life: 100,000 cycles
Terminal Type: .250" Tab Q.C.
Mounting Hole: .500 (12.7)

#### Terminal Types

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuit</th>
<th>Action</th>
<th>Actuator</th>
<th>Diag No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>54-020</td>
<td>SPST</td>
<td>OFF</td>
<td>NONE</td>
<td>ON</td>
</tr>
<tr>
<td>54-021</td>
<td>SPDT</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
</tr>
<tr>
<td>54-022</td>
<td>SPDT</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
</tr>
</tbody>
</table>

### Nylon Paddle

**Features**
- Slow Make, Slow Break Contacts
- Heavy Duty AC Rated Also Suitable for Low Voltage DC Applications
- Industry Standard .500" Dia Mounting Hole

#### Specifications

Current Rating: 20A 125VAC, 10A 250VAC, 1 1/2 HP 125-250VAC
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V RMS (min.)
Temperature Rating: +32°F to +185°F (0°C to +85°C)
Electrical Life: 50,000 cycles
Mechanical Life: 100,000 cycles
Terminal Type: Refer to Diag No. in Table
Mounting Hole: .500 (12.7)

#### Terminal Types

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuit</th>
<th>Action</th>
<th>Actuator</th>
<th>Diag No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>54-110</td>
<td>SPST</td>
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<td>NONE</td>
<td>OFF</td>
</tr>
<tr>
<td>54-111</td>
<td>SPDT</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
</tr>
<tr>
<td>54-119</td>
<td>SPDT</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>54-107</td>
<td>DPST</td>
<td>ON</td>
<td>NONE</td>
<td>OFF</td>
</tr>
<tr>
<td>54-112</td>
<td>DPST</td>
<td>ON</td>
<td>NONE</td>
<td>OFF</td>
</tr>
<tr>
<td>54-084</td>
<td>DPDT</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>54-085</td>
<td>DPDT</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>54-088</td>
<td>DPDT</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
</tr>
<tr>
<td>54-086</td>
<td>DPDT</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
</tr>
</tbody>
</table>

NTE Electronics, Inc. • Voice (973) 748-5089 • FAX (973) 748-6224 • http://www.nteinc.com 153
Nylon Paddle

Features
- Quick Connect Terminals
- Insulated Actuator

![Nylon Paddle Image]

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Action</th>
<th>Actuator</th>
<th>Diag No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>54-317</td>
<td>SPDT</td>
<td>ON</td>
<td>NONE ON</td>
<td>S34</td>
</tr>
<tr>
<td>54-318</td>
<td>SPDT</td>
<td>ON</td>
<td>OFF ON</td>
<td>S34</td>
</tr>
<tr>
<td>54-319</td>
<td>SPST</td>
<td>ON</td>
<td>NONE OFF</td>
<td>S34</td>
</tr>
<tr>
<td>54-320</td>
<td>DPST</td>
<td>ON</td>
<td>NONE OFF</td>
<td>S34</td>
</tr>
<tr>
<td>54-321</td>
<td>DPDT</td>
<td>ON</td>
<td>NONE ON</td>
<td>S34</td>
</tr>
<tr>
<td>54-322</td>
<td>DPDT</td>
<td>ON</td>
<td>OFF ON</td>
<td>S34</td>
</tr>
</tbody>
</table>

Specifications

Current Rating: 6A 125VAC, 4A 250VAC
Insulation Resistance: 1000 Megohms (min.) at 500VDC
Dielectric Strength: 2000V RMS (min.) between terminals
Temperature Rating: -4°F to +131°F (-20°C to +55°C)
Electrical Life: 10,000 cycles (min.)
Terminal Type: Solder Lug/Quick Connect
Mounting Hole: .492 (12.5)

Nylon Paddle

Features
- Solder Lug Terminals

![Nylon Paddle Image]

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Action</th>
<th>Actuator</th>
<th>Diag No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>54-723</td>
<td>SPDT</td>
<td>ON</td>
<td>NONE ON</td>
<td>S129</td>
</tr>
<tr>
<td>54-724</td>
<td>SPDT</td>
<td>OFF</td>
<td>NONE ON</td>
<td>S129</td>
</tr>
<tr>
<td>54-725</td>
<td>SPDT</td>
<td>ON</td>
<td>OFF ON</td>
<td>S129</td>
</tr>
<tr>
<td>54-726</td>
<td>SPDT</td>
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<td>NONE OFF</td>
<td>S129</td>
</tr>
</tbody>
</table>

Specifications

Current Rating: 6A 125VAC, 3A 250VAC
Insulation Resistance: 100 Megohms (min.) at 500VDC
Dielectric Strength: 1000V RMS (min.)
Temperature Rating: +32°F to +149°F (0°C to +65°C)
Electrical Life: 6,000 cycles
Mechanical Life: 10,000 cycles
Terminal Type: Solder Lug
Mounting Hole: .590 (15.0)
## Paddle Handle

### Features
- 50 Amps at 12VDC
- Suitable for Low Voltage, High Amperage Applications
- Screw Terminals

### Specifications
- **Current Rating:** 50A 12VDC
- **Insulation Resistance:** 100 Megohms (min.) at 500VDC
- **Dielectric Strength:** 1500V RMS (min.)
- **Temperature Rating:** −4°F to +180°F (−20°C to +85°C)
- **Electrical Life:** 25,000 cycles
- **Mechanical Life:** 100,000 cycles
- **Terminal Type:** Screw Type
- **Mounting Hole:** .500 (12.7)

### Diagram and Table

#### S26

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Action</th>
<th>Actuator</th>
<th>Dia.</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>54-560</td>
<td>SPST</td>
<td>ON</td>
<td>NONE</td>
<td>OFF</td>
<td>ABS</td>
</tr>
<tr>
<td>54-561</td>
<td>SPST</td>
<td>ON</td>
<td>NONE</td>
<td>OFF</td>
<td>Red</td>
</tr>
<tr>
<td>54-562</td>
<td>SPST</td>
<td>ON</td>
<td>NONE</td>
<td>OFF</td>
<td>ABS w/Chrome Plating</td>
</tr>
</tbody>
</table>

#### S27

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Action</th>
<th>Actuator</th>
<th>Dia.</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>54-563</td>
<td>SPST</td>
<td>ON</td>
<td>NONE</td>
<td>OFF</td>
<td>Chrome Plated</td>
</tr>
</tbody>
</table>

---

## Paddle Handle

### Features
- 50 Amps at 12VDC
- Interchangeable Boots (Red, Black, Yellow and Blue) Included
- Screw Terminals

### Specifications
- **Current Rating:** 50A 12VDC
- **Insulation Resistance:** 100 Megohms (min.) at 500VDC
- **Dielectric Strength:** 1500V RMS (min.)
- **Temperature Rating:** −4°F to +180°F (−20°C to +85°C)
- **Electrical Life:** 25,000 cycles
- **Mechanical Life:** 100,000 cycles
- **Terminal Type:** Screw Type
- **Mounting Hole:** .500 (12.7)

### Diagram and Table

#### S27

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Action</th>
<th>Actuator</th>
<th>Dia.</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>54-563</td>
<td>SPST</td>
<td>ON</td>
<td>NONE</td>
<td>OFF</td>
<td>Chrome Plated</td>
</tr>
</tbody>
</table>
# Toggle Switches

## Paddle Handle

### Features
- 50 Amps at 12VDC
- Screw Terminals

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Action</th>
<th>Actuator</th>
<th>Diag No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>54-565</td>
<td>SPDT</td>
<td>ON</td>
<td>OFF ON</td>
<td>Chrome Plated</td>
</tr>
</tbody>
</table>

### Specifications
- **Current Rating:** 50A 12VDC
- **Insulation Resistance:** 100 Megohms (min.) at 500VDC
- **Dielectric Strength:** 1500V RMS (min.)
- **Temperature Rating:** −4°F to +180°F (−20°C to +85°C)
- **Electrical Life:** 25,000 cycles
- **Mechanical Life:** 100,000 cycles
- **Terminal Type:** Screw Type
- **Mounting Hole:** .500 (12.7)

## S30

### Specifications
- **Current Rating:** 50A 12VDC
- **Insulation Resistance:** 100 Megohms (min.) at 500VDC
- **Dielectric Strength:** 1500V RMS (min.)
- **Temperature Rating:** −4°F to +180°F (−20°C to +85°C)
- **Electrical Life:** 25,000 cycles
- **Mechanical Life:** 100,000 cycles
- **Terminal Type:** Screw Type
- **Mounting Hole:** .500 (12.7)

## S69

### Specifications
- **Current Rating:** 6A 250VAC
- **Insulation Resistance:** 100 Megohms (min.) at 500VDC
- **Dielectric Strength:** 1500V RMS (min.)
- **Temperature Rating:** +14°F to +131°F (−10°C to +55°C)
- **Electrical Life:** 6,000 cycles
- **Mechanical Life:** 30,000 cycles
- **Terminal Type:** Solder Lug
- **Mounting Hole:** .472 (12.0)
Toggle Switches

Paddle Handle

Features
- Plastic Lever with Waterproof Boot

Specifications
- Current Rating: 10A 125VAC, 6A 250VAC
- Insulation Resistance: 100 Megohms (min.) at 500VDC
- Dielectric Strength: 1500V RMS (min.)
- Temperature Rating: −4°F to +180°F (−20°C to +85°C)
- Electrical Life: 6,000 cycles
- Mechanical Life: 10,000 cycles
- Terminal Type: .250" Tab Q.C.
- Mounting Hole: .480 (12.2)

Paddle Handle

Features
- Optional Indicator Plates Available:
  - 54−925 Plate for 54−727
  - 54−926 Plate for 54−728
  - 54−927 Plate for 54−729 and 54−730

Specifications
- Current Rating: 10A 125VAC, 6A 250VAC
- Insulation Resistance: 100 Megohms (min.) at 500VDC
- Dielectric Strength: 1000V RMS (min.)
- Temperature Rating: +32°F to +149°F (0°C to +65°C)
- Electrical Life: 6,000 cycles
- Mechanical Life: 10,000 cycles
- Terminal Type: Solder Lug
- Mounting Hole: .480 (12.2)
### Toggle Switches

#### Paddle Handle

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Action</th>
<th>Actuator</th>
<th>Diag No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>S4-731</td>
<td>DPDT</td>
<td>(ON)</td>
<td>OFF (ON)</td>
<td>Black ABS Resin S134</td>
</tr>
<tr>
<td>S4-732</td>
<td>DPDT</td>
<td>(ON)</td>
<td>OFF (ON)</td>
<td>Black ABS Resin S134</td>
</tr>
</tbody>
</table>

**SPECIAL NOTE:** ( ) = Momentary Function

#### Specifications

**Current Rating:** 20A 12VDC  
**Insulation Resistance:** 100 Megohms (min.) at 500VDC  
**Dielectric Strength:** 1500V RMS (min.)  
**Temperature Rating:** +32°F to +149°F (0°C to +65°C)  
**Electrical Life:** 6,000 cycles  
**Mechanical Life:** 10,000 cycles  
**Terminal Type:** .250” Tab Q.C.  
**Mounting Hole:** .480 (12.2)”