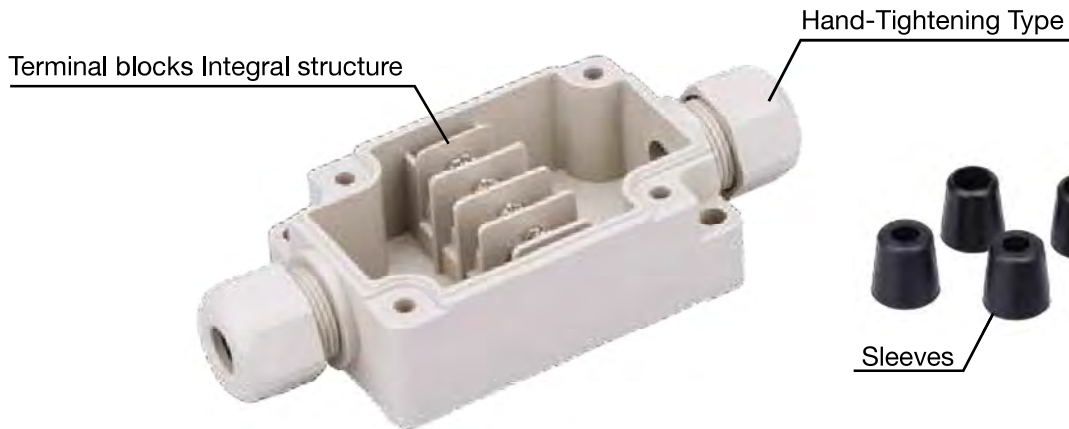


BOXTC Series

Space-Saving BOX TERMINAL



Specifications

| | | |
|-----------------------|--|-------------|
| Rated voltage | AC,DC 250V | |
| Rated current | 15A | |
| Insulation resistance | 100MΩ or more (DC500V) | |
| Withstand voltage | AC 2500V / min | |
| Applicable wire | 1.25mm ² / MAX | |
| Tightening torque | Terminal Screw | 0.6~0.8N·m |
| | Lid | 0.5~0.65N·m |
| Protection Rating | IP67 | |
| Ambient temperature | -25°C~+60°C (No freezing and condensations) | |
| Relative humidity | 45%~85% | |

Materials

| | |
|--------------------------|---|
| BOX main body | Nylon 6 (UL94V-2) |
| Lid | PBT (UL94V-0) |
| Gasket | NBR |
| Lid fixing screw | SUS |
| Coil spring | SUS |
| Nut | Brass (Ni plating) |
| Caps | Nylon 6 (UL94V-2) |
| Sleeves | NBR |
| Hinge | - |
| Terminal block main body | Nylon 6 (UL94V-2) |
| Terminal Screw | SWCH (Zn + trivalent chromate-plating) M3×8L |
| Conductive plate | Brass (Ni plating) |

Chemical resistance

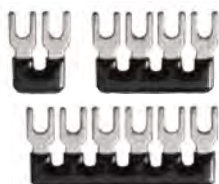
| Liquid solution | | Liquid solution | |
|----------------------|---|-------------------------|---|
| Water | ◎ | Ethylene glycol | ○ |
| Mineral oil | ◎ | Ester | △ |
| Heating oil | ○ | Halogenated hydrocarbon | △ |
| Gasoline | △ | Phenol | × |
| Anti-corrosion oil | ◎ | Cresol | × |
| Vegetal oil | ◎ | Liquid ammonia | × |
| Acetone | △ | Oxygenated water | △ |
| Benzene | △ | Weak acid | ○ |
| Carbon tetrachloride | △ | Strong acid | × |
| Alcohol | ○ | Weak alkali | △ |
| Acetic Ether | △ | Strong alkali | × |

◎...High resistance, and non-degrade
 ○...little change the weight, and usable according to condition
 △...change the weight and dimension, but usable for a short time
 ×...It is difficult to use because of swelling and melting

Accessories

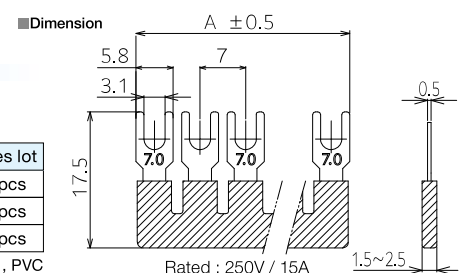
Short bar

BB7.0-2
BB7.0-4
BB7.0-6



| No. of poles | Part No. | A | Weight | Sales lot |
|--------------|----------|--------|--------|-----------|
| 2 | BB7.0-2 | 12.8mm | 0.8g | 10pcs |
| 4 | BB7.0-4 | 26.8mm | 1.8g | 10pcs |
| 6 | BB7.0-6 | 40.8mm | 2.6g | 10pcs |

Material : Copper alloy (Ni plating) , PVC



250V / 15A / 1.25mm² [Screw size M3] / 4poles

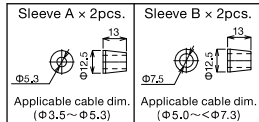
IP67



BOXTC-4

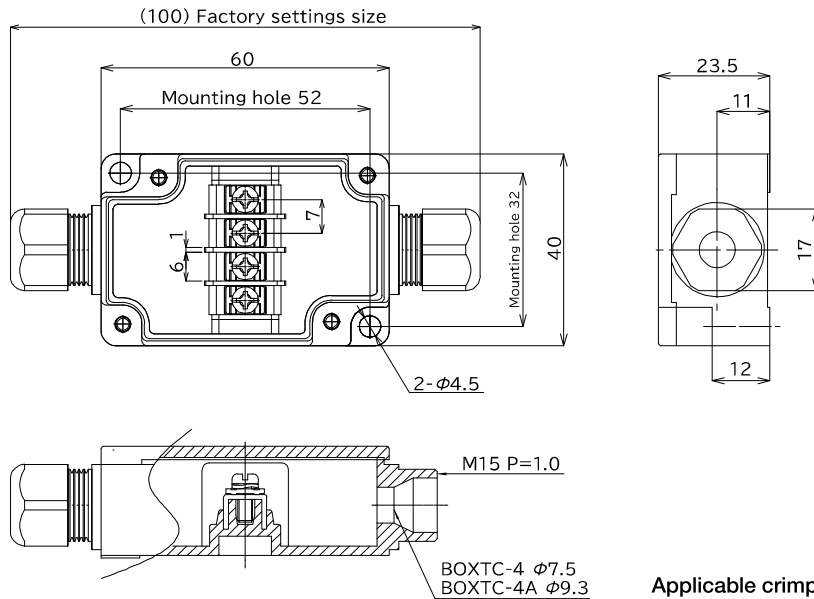
Weight : 57g Sales lot : 1pc

Bundled sleeves



*Sleeve B : Pre-installed at the factory

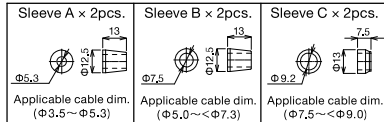
Dimension



BOXTC-4A

Weight : 57g Sales lot : 1pc

Bundled sleeves

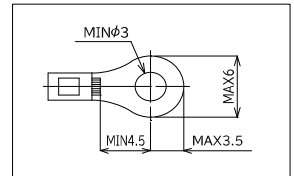


*Sleeve C : Pre-installed at the factory

Applicable Short bar

BB7.0-2, 4 (see P.12)

Applicable crimp terminal



250V / 15A / 1.25mm² [Screw size M3] / 6poles

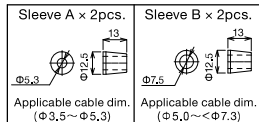
IP67



BOXTC-6

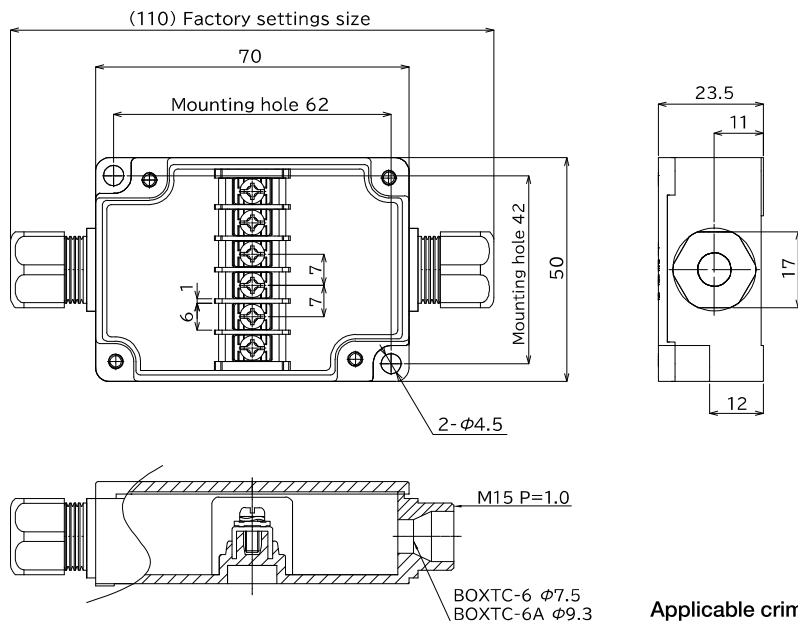
Weight : 70g Sales lot : 1pc

Bundled sleeves



*Sleeve B : Pre-installed at the factory

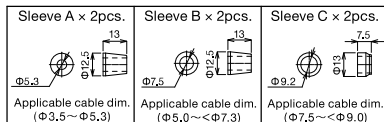
Dimension



BOXTC-6A

Weight : 71g Sales lot : 1pc

Bundled sleeves

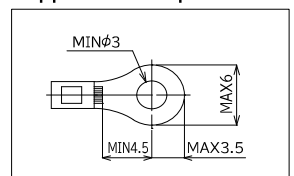


*Sleeve C : Pre-installed at the factory

Applicable Short bar

BB7.0-2, 4, 6 (see P.12)


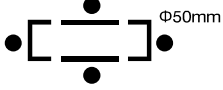
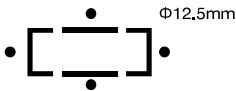
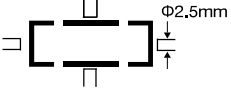
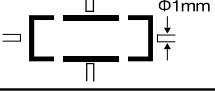

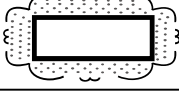
Applicable crimp terminal


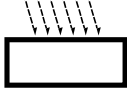

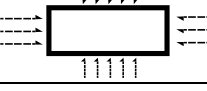
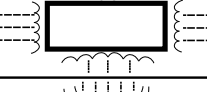
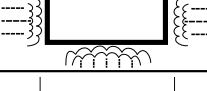

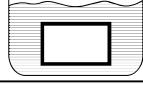








IEC (International Electrotechnical Commission) IEC529

Internal Protection class






IP-67

| First Digit | Protection against Human Contact and Foreign Bodies | |
|-------------|--|--|
| 0 |  | No special protection |
| 1 |  | Large foreign bodies, diam. >50mm |
| 2 |  | Medium-sized foreign bodies, diam. >12.5mm |
| 3 |  | Small foreign bodies, diam. >2.5mm |
| 4 |  | Granular foreign bodies, diam. >1mm |
| 5 |  | Dust protected; dust deposition are permitted, but their volume must not affect the function of the unit |
| 6 |  | Dust-proof |

| Second Digit | Protection against Liquids | |
|--------------|---|--|
| 0 | N/A | No special protection |
| 1 |  | Protected against vertically falling drops of water |
| 2 |  | Protected against direct sprays up to 15° from the vertical |
| 3 |  | Protected against direct sprays up to 60° from the vertical |
| 4 |  | Protected against sprays from all directions |
| 5 |  | Protected against low pressure jets of water from all directions |
| 6 |  | Protected against strong jets of water |
| 7 |  | Protected against the effects of temporary immersion at the specified pressure and time. |
| 8 |  | Protected against long periods of immersion under pressure |

| | Type of Terminal Block | Part No. | Rated | Mounting methods | |
|---|---|--|---|------------------|-------------------|
| | | | | Direct | IEC/DIN 35mm rail |
| BOXTS IP67  P.6 |  | BOXTS-3 BOXTS-3A BOXTS-4 BOXTS-4A BOXTS-6 BOXTS-6A <div style="border: 1px solid black; padding: 5px; display: inline-block;"> BOXTS-N BOXTS-NA BOXTS-N4 BOXTS-N4A BOXTS-N6 BOXTS-N6A </div> | AC,DC 250V 15A(1.5mm ²) | ● | ● |
| BOXTC IP67  P.12 |  | BOXTC-4 BOXTC-4A BOXTC-6 BOXTC-6A | AC,DC 250V 15A(1.25mm ²) | ● | — |
| BOXTH IP67  P.14 |  | <div style="border: 1px solid black; padding: 5px; display: inline-block;"> BOXTH-1LB BOXTH-1LC BOXTH-1HB BOXTH-1HC BOXTH-2LB BOXTH-2LC BOXTH-2HB BOXTH-2HC BOXTH-3LB BOXTH-3LC BOXTH-3HB BOXTH-3HC </div> BOXTH-1LB-A BOXTH-2LB-A BOXTH-3LB-A | AC,DC 600V 15A(2.0mm ²) | ● | ● |

: Only Box

| | Type of Terminal Block | Part No. | Rated | Mounting methods | |
|--|--|--|--|------------------|-------------------|
| | | | | Direct | IEC/DIN 35mm rail |
| <h1>BOXTM IP67</h1>  <p>P.24</p> |   | Direct mounting type *BOXTM-401 BOXTM-801 BOXTM-802 BOXTM-1001 BOXTM-1002 BOXTM-1003 BOXTM-2001 BOXTM-2002 <div style="border: 1px solid black; padding: 2px;">BOXTM-2000 BOXTM-2003</div> | *BOXTM-401 AC,DC 600V 20A(2.0mm ²) AC,DC 600V 15A(2.0mm ²) | ● | ● |
| | | IEC/DIN 35mm rail mounting type <div style="border: 1px solid black; padding: 2px;"> BOXTM-60L BOXTM-61L BOXTM-60H BOXTM-61H BOXTM-110L BOXTM-111L BOXTM-110H BOXTM-111H BOXTM-220L BOXTM-221L BOXTM-220H BOXTM-221H </div> | | | |
| <h1>BOXTB</h1>  <p>P.38</p> |  | BOXTB-4AT BOXTB-6AT BOXTB-8AT10 *BOXTB-6AT20 | AC,DC 600V 20A(2.0mm ²) *BOXTB-6AT20 AC,DC 600V 40A(5.5mm ²) | ● | ● |

: Only Box

Safe Use of TOGI BOX terminals

With the product handling, safety information, and all the precautions before mounting, using, servicing, or inspecting the products.

[WARNING]... A warning notice indicates that neglecting the suggested procedure or practice could be fatal or result in serious personal injury.

[CAUTION]... A caution notice indicates that neglecting the suggested procedure or practice could result in moderate or slight personal injury and/or property damage.

《BOX terminals》

WARNING

- Do not touch the terminals while the power supply voltage is being applied. Electrical shock may occur.
- When carrying out work, always ensure that the external power supply is cut off in all phases. Electrical shock may occur.
- Do not exceed the ratings. Doing so may cause damage or burn out.

CAUTION

- Do not install or store the product under abnormal conditions such as condensation, corrosive gases, vibrations or shocks outside of the general specification range. Doing so may cause burnout, damage or product deterioration.
- When using the product which has been stored for a long time, check the appearance and the condition of the packing and do not use if deformation, cracks, chips or dents are found. Doing so may cause electric shock due to water leakage.
- The duration of guarantee is limited to one year after purchase. If you use products more than one year, please use at your own risk.
- Terminal screws (Mounting screws) must be re-tightened regularly by following the specified torque. Using the product with loosen screws may cause burnout or short-circuit. Over-tightening of the screws may cause damage.
- Do not use damaged or deformed products, as may cause poor contact, burnout, short-circuit or electric shock.
- Select conductors and wire sizes suitable for the applied voltage and current. Using unsuitable conductors may cause burnout.
- Prevent foreign objects such as iron powder and wire scraps from entering the box and terminal block. Doing so may cause poor contact, burnout, short-circuit or damage.
- When tightening the lid, make sure that there is no dust on the packing. Otherwise, may result in electric shock due to water leakage.
- Follow the each product-specific precautions for mounting and demounting the product. Otherwise, product can be damaged.
- When using the product, ensure that an adequate insulation distance is maintained between adjacent poles and the surrounding area. Otherwise, may result in electric shock, burnout or short-circuit.
- Do not touch the conductive parts of the product directly. Doing so may cause an electric shock.
- Do not apply excessive force, such as dropping the product. Doing so may cause damage.
- Do not modify or disassemble the product. Doing so may cause damage.
- Installation, wiring, maintenance and inspection must be done by qualified personnel with specialist knowledge.