MT SEALED SERIES
(Outdated connector)

Features

The MT sealed connector series, developed for connecting waterproof wiring, has 5 mm and 6 mm pitches between terminal poles.
This series consists of a 2.3mm type classified according to terminal size, supporting use in a variety of control circuits and low power circuits.

● Perfect performance is ensured even when used in an automobile engine compartment.
● A model that can be directly secured to a bracket on the car body is also available.

In case of purchasing the subject parts, please contact our sales office. Some part may not be in production.
### Structure / 構造

#### Connector M
- Wire seal
- Connector seal
- Terminal M
- Housing M

#### Connector F
- Wire seal
- Connector seal
- Terminal F
- Housing F

### Terminal (mm)

<table>
<thead>
<tr>
<th>Terminal</th>
<th>Cable size (mm²)</th>
<th>Cable overall diameter (mm)</th>
<th>Material</th>
<th>Surface treatment</th>
<th>Thickness (mm)</th>
<th>Tab thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>M(1500-0105)</td>
<td>0.3～1.25</td>
<td>1.4～2.9</td>
<td>Brass</td>
<td>Tin-plated Snメッキ</td>
<td>0.25</td>
<td>Tab thickness: 0.64</td>
</tr>
<tr>
<td>M(8230-4408)</td>
<td>2.0</td>
<td>2.0～2.7</td>
<td>Brass</td>
<td>Tin-plated Snメッキ</td>
<td>0.25</td>
<td>Tab thickness: 0.64</td>
</tr>
<tr>
<td>F(1500-0110)</td>
<td>0.3～1.25</td>
<td>1.4～2.9</td>
<td>Heat-resistant copper alloy</td>
<td>Tin-plated Snメッキ</td>
<td>0.25</td>
<td></td>
</tr>
<tr>
<td>F(8240-4828)</td>
<td>2.0</td>
<td>2.0～2.7</td>
<td>Heat-resistant copper alloy</td>
<td>Tin-plated Snメッキ</td>
<td>0.25</td>
<td></td>
</tr>
</tbody>
</table>
Wire seals (mm)
- The wire seals are common to M and F.
- P5: For 5mm Pitch housing/Please inquire us for the details.
- P6: For 6mm pitch housing.

<table>
<thead>
<tr>
<th>Material</th>
<th>Color</th>
<th>Cable overall diameter (mm)</th>
<th>For</th>
<th>(mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N.B.R.</td>
<td>Brown</td>
<td>2.0 ～ 2.7</td>
<td>P5</td>
<td>7161-9785</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>6.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>N.B.R.</td>
<td>Black</td>
<td>1.7 ～ 2.7</td>
<td>P6</td>
<td>7160-8234</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5.7</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>6.4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Dummy plugs (mm)
- Dummy plugs are common to M and F.
- Dummy plugs are used to blind unused terminal holes.
- P5: For 5mm Pitch housing/Please inquire us for the details.
- P6: For 6mm pitch housing.

<table>
<thead>
<tr>
<th>Material</th>
<th>Color</th>
<th>Dummy plugs (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N.B.R.</td>
<td>Brown</td>
<td>P5 7161-9787</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4.7 ～ 6.4</td>
</tr>
<tr>
<td></td>
<td>Black</td>
<td>P5 7160-9787</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5.6 ～ 6.4</td>
</tr>
</tbody>
</table>
MT SEALED SERIES

**Housing (mm)**

**Material** / P.B.T.
**Color** / Natural

### 1way

#### M(6187-1171)

- Ref: Terminal part No.
- Ref: Wire seal No.
- Ref: Dummy plug No.
- Note

With clamp for 7mm dia. φ7用クランプ付

#### M(6187-1561)

- Ref: Terminal part No.
- Ref: Wire seal No.
- Ref: Dummy plug No.
- Note

Plate thickness range for clamp: ɿ0.7~2.2

#### M(6187-2171)

- Ref: Terminal part No.
- Ref: Wire seal No.
- Ref: Dummy plug No.
- Note

#### M(6187-2311)

- Ref: Terminal part No.
- Ref: Wire seal No.
- Ref: Dummy plug No.
- Note

With clamp for 7mm dia. φ7用クランプ付

### 2way (AL Type)

#### M(6187-3281)

- Ref: Terminal part No.
- Ref: Wire seal No.
- Ref: Dummy plug No.
- Note

Plate thickness range for clamp: ɿ0.7~2.2

### 2way (IL Type)

#### M(6187-2181)

- Ref: Terminal part No.
- Ref: Wire seal No.
- Ref: Dummy plug No.
- Note

#### M(6187-2321)

- Ref: Terminal part No.
- Ref: Wire seal No.
- Ref: Dummy plug No.
- Note

### 3way (E Type)

#### M(6187-3261)

- Ref: Terminal part No.
- Ref: Wire seal No.
- Ref: Dummy plug No.
- Note

#### M(6187-3261)

- Ref: Terminal part No.
- Ref: Wire seal No.
- Ref: Dummy plug No.
- Note

### Note

With clamp for 7mm dia. φ7用クランプ付

Plate thickness range for clamp: ɿ0.7~2.2

---

**Table**

<table>
<thead>
<tr>
<th>Housing</th>
<th>Material</th>
<th>Color</th>
<th>Ref: Terminal part No.</th>
<th>Ref: Wire seal No.</th>
<th>Ref: Dummy plug No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>M(6187-1171)</td>
<td>P.B.T.</td>
<td>Natural</td>
<td>O-02</td>
<td>O-03 (For P6)</td>
<td>O-03 (For P6)</td>
</tr>
<tr>
<td>M(6187-1561)</td>
<td>P.B.T.</td>
<td>Natural</td>
<td>O-02</td>
<td>O-03 (For P6)</td>
<td>O-03 (For P6)</td>
</tr>
<tr>
<td>M(6187-2171)</td>
<td>P.B.T.</td>
<td>Natural</td>
<td>O-02</td>
<td>O-03 (For P6)</td>
<td>O-03 (For P6)</td>
</tr>
<tr>
<td>M(6187-2311)</td>
<td>P.B.T.</td>
<td>Natural</td>
<td>O-02</td>
<td>O-03 (For P6)</td>
<td>O-03 (For P6)</td>
</tr>
<tr>
<td>M(6187-3281)</td>
<td>P.B.T.</td>
<td>Natural</td>
<td>O-02</td>
<td>O-03 (For P6)</td>
<td>O-03 (For P6)</td>
</tr>
<tr>
<td>M(6187-3261)</td>
<td>P.B.T.</td>
<td>Natural</td>
<td>O-02</td>
<td>O-03 (For P6)</td>
<td>O-03 (For P6)</td>
</tr>
</tbody>
</table>

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**Reference**

Sumitomo Wiring Systems, Ltd.
MT SEALED SERIES

Structure

Housing (mm)
Material / 66 Nylon
Color / Natural

Connector M
- Wire seal
- Housing M
- Terminal M
- Connector seal holder

Connector F
- Wire seal
- Housing F
- Terminal F
- Connector seal

Housing (mm)

4way

M(6189-4171)
- Ref: Terminal part No.
- Ref: Wire seal No.
- Ref: Dummy plug No.

F(6180-4181)
- Ref: Terminal part No.
- Ref: Wire seal No.
- Ref: Dummy plug No.

6way

M(6189-6171)
- Ref: Terminal part No.
- Ref: Wire seal No.
- Ref: Dummy plug No.

F(6180-6181)
- Ref: Terminal part No.
- Ref: Wire seal No.
- Ref: Dummy plug No.
Structure / 構造

Mating portion (Connector M)  
Connector F

Terminal M

Connector seal

Housing F

Terminal F

Wire seal

Housing (mm)

Material / P.B.T.

Ref: Terminal part No.

Ref: Wire seal No.

Ref: Dummy plug No.

Color

Gray

F(6189-0035)

O-02

O-03 (For P5)

O-03 (For P5)

F(6189-0039)

O-02

O-03 (For P5)

O-03 (For P5)

F(6189-0056)

O-02

O-03 (For P5)

O-03 (For P5)

2way
### MT SEALED SERIES

#### Housing (mm)

<table>
<thead>
<tr>
<th>Material</th>
<th>PB.T.</th>
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</table>

<table>
<thead>
<tr>
<th>2way</th>
<th>3way</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>M(6180-2405)</strong></td>
<td><strong>F(6189-0060)</strong></td>
</tr>
<tr>
<td>Ref: Terminal part No.</td>
<td>O-02</td>
</tr>
<tr>
<td>Ref: Wire seal No.</td>
<td>O-03 (For P6)</td>
</tr>
<tr>
<td>Ref: Dummy plug No.</td>
<td>O-03 (For P6)</td>
</tr>
<tr>
<td>Color</td>
<td>Gray</td>
</tr>
<tr>
<td>Housing (mm)</td>
<td>16.3</td>
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<tr>
<td>2way</td>
<td>3way</td>
</tr>
<tr>
<td><strong>M(6180-2405)</strong></td>
<td><strong>F(6189-0060)</strong></td>
</tr>
<tr>
<td>Ref: Terminal part No.</td>
<td>O-02</td>
</tr>
<tr>
<td>Ref: Wire seal No.</td>
<td>O-03 (For P6)</td>
</tr>
<tr>
<td>Ref: Dummy plug No.</td>
<td>O-03 (For P6)</td>
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<tr>
<td>Color</td>
<td>Blue</td>
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<tr>
<td>Housing (mm)</td>
<td>17.4</td>
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<table>
<thead>
<tr>
<th>2way</th>
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<tbody>
<tr>
<td><strong>F(6189-0031)</strong></td>
<td><strong>F(6189-0033)</strong></td>
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<td>Ref: Terminal part No.</td>
<td>O-02</td>
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<tr>
<td>Ref: Wire seal No.</td>
<td>O-03 (For P6)</td>
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<tr>
<td>Ref: Dummy plug No.</td>
<td>O-03 (For P6)</td>
</tr>
<tr>
<td>Color</td>
<td>Brown</td>
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<td>Housing (mm)</td>
<td>21.3</td>
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<table>
<thead>
<tr>
<th>2way</th>
<th>3way</th>
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</thead>
<tbody>
<tr>
<td><strong>F(6189-0027)</strong></td>
<td><strong>F(6189-0028)</strong></td>
</tr>
<tr>
<td>Ref: Terminal part No.</td>
<td>O-02</td>
</tr>
<tr>
<td>Ref: Wire seal No.</td>
<td>O-03 (For P6)</td>
</tr>
<tr>
<td>Ref: Dummy plug No.</td>
<td>O-03 (For P6)</td>
</tr>
<tr>
<td>Color</td>
<td>Gray</td>
</tr>
<tr>
<td>Housing (mm)</td>
<td>23.4</td>
</tr>
</tbody>
</table>
MT SEALED SERIES 090/STANDARD

O-09

Ref. Terminal part No.
Ref. Wire seal No.
Ref. Dummy plug No.
Color

O-02
O-03 (For P6)
O-03 (For P6)
Gray

F(6189-0029)

6way

Ref: Terminal part No.

Ref: Wire seal No.

Ref: Dummy plug No.

Color

Gray

31.1
29.1
23
MT SEALED SERIES

090／ATTACHING TYPE

4way

Ref. Terminal part No. ターミナル部品番号
O-02
Ref. Wire seal No. ワイヤーシール番号
O-03 (For P6)
Ref. Dummy plug No. ダミープラグ番号
O-03 (For P6)
Green 色
Bracket for attaching プラケット固定

6way

M(6187-4583)

Ref. Terminal part No. ターミナル部品番号
O-02
Ref. Wire seal No. ワイヤーシール番号
O-03 (For P6)
Ref. Dummy plug No. ダミープラグ番号
O-03 (For P6)
Natural 色
Bracket for attaching プラケット固定

F(6180-4593)

Ref. Terminal part No. ターミナル部品番号
O-02
Ref. Wire seal No. ワイヤーシール番号
O-03 (For P6)
Ref. Dummy plug No. ダミープラグ番号
O-03 (For P6)
Green 色
Color 色
Bracket for attaching プラケット固定

M(6187-6581)

Ref. Terminal part No. ターミナル部品番号
O-02
Ref. Wire seal No. ワイヤーシール番号
O-03 (For P6)
Ref. Dummy plug No. ダミープラグ番号
O-03 (For P6)
Natural 色
Bracket for attaching プラケット固定

F(6180-6591)

Ref. Terminal part No. ターミナル部品番号
O-02
Ref. Wire seal No. ワイヤーシール番号
O-03 (For P6)
Ref. Dummy plug No. ダミープラグ番号
O-03 (For P6)
Natural 色
Color 色
Bracket for attaching プラケット固定

Bracket for attaching=プラケット固定