# TL SEALED SERIES

## Features

The TL sealed connector series has a mechanism that detects terminal incomplete insertion by using a dedicated jig.
To restrain from incomplete engagement, this series is adopted a lock mechanism with effective clear sound.
These male connectors can be directly secured to a bracket on the car body.
(Note: Please contact our sales staff, if you have any questions regarding the dedicated jig.)

## 特　長

TL 防水シリーズは、専用治具にて端子半挿入を検出する構造を採用しております。
コネクタ半嵌合抑制として、ロック音を向上させたロック構造を採用しております。
オスコネクタは、ボデー側のブラケットに直接固定することができます。

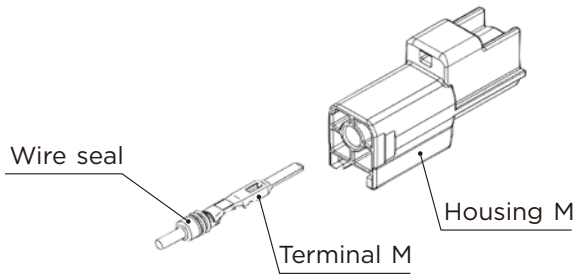
注意：専用の導通治具に関しては弊社営業担当にご確認下さい。

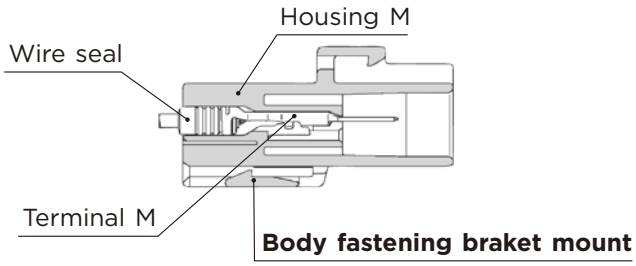
# TL SEALED SERIES for STANDARD

## 2.3mm (090)

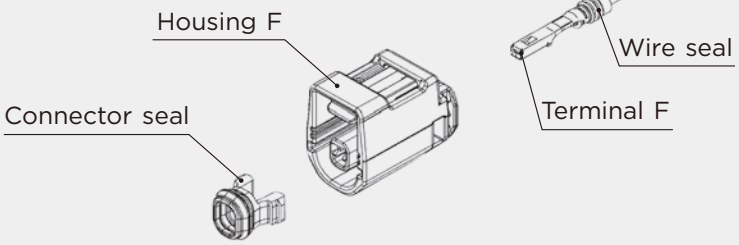
**Structure**



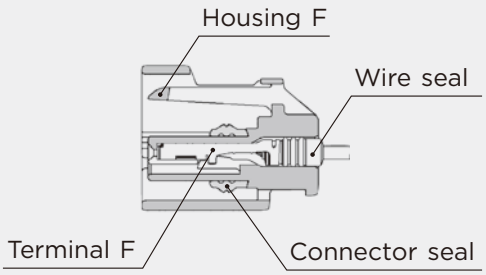



**Connector M**




**Connector F**



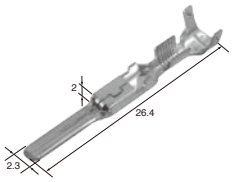

## 2.3mm (090)

| (E) | | (J) |
|---|---|---|
| Cable size | : | 適用電線サイズ |
| Cable overall diameter | : | 電線仕上り外径 |
| Heat-resistant copper alloy | : | 耐熱銅合金 |
| Brass | : | 黄銅 |
| Surface treatment | : | 表面処理 |
| Gold-plated | : | Auメッキ |
| Tin-plated | : | Snメッキ |

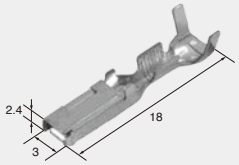
## Terminal (UNIT : mm)

## (SS)

| | |
|---|---|
| **Cable size** (mm²) | 0.3～0.5 |
| **Material** | Brass |
| **Surface treatment** | Tin-plated |



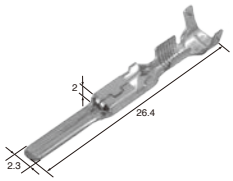

**M (8230-5707)** **F (8240-0667)**



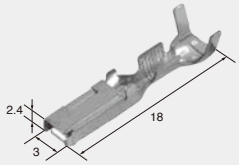

| | |
|---|---|
| **Cable size** (mm²) | 0.3～0.5 |
| **Material** | Heat-resistant copper alloy |
| **Surface treatment** | Tin-plated |

## (S)

| | |
|---|---|
| **Cable size** (mm²) | 0.3～0.75 |
| **Material** | Brass |
| **Surface treatment** | Tin-plated |



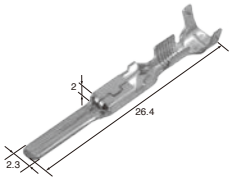

**M (8230-5706)** **F (8240-0666)**



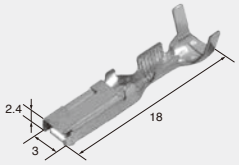

| | |
|---|---|
| **Cable size** (mm²) | 0.3～0.75 |
| **Material** | Heat-resistant copper alloy |
| **Surface treatment** | Tin-plated |

## (M)

| | |
|---|---|
| **Cable size** (mm²) | 0.75～1.25 |
| **Material** | Brass |
| **Surface treatment** | Tin-plated |



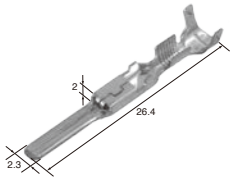

**M (8230-5705)** **F (8240-0665)**



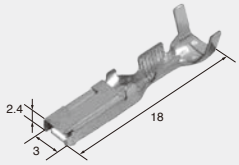

| | |
|---|---|
| **Cable size** (mm²) | 0.75～1.25 |
| **Material** | Heat-resistant copper alloy |
| **Surface treatment** | Tin-plated |

## (L)

| | |
|---|---|
| **Cable size** (mm²) | 2.0～2.5 |
| **Material** | Brass |
| **Surface treatment** | Tin-plated |




**M (8230-5704)** **F (8240-0664)**




| | |
|---|---|
| **Cable size** (mm²) | 2.0～2.5 |
| **Material** | Heat-resistant copper alloy |
| **Surface treatment** | Tin-plated |

# Wire seals (UNIT : mm)

• The wire seals are common to M and F.

## (SS)

**(7165-1763)**

| | |
|---|---|
| **Cable overall diameter(mm)** | Over than 1.05 mm below 1.4 mm |
| **Material** | Silicone |
| **Color** | Dark Green |

## (S)

**(7165-1764)**

| | |
|---|---|
| **Cable overall diameter(mm)** | Over than 1.3 mm below 1.75 mm |
| **Material** | Silicone |
| **Color** | Dark Gray |

## (M)

**(7165-1765)**

| | |
|---|---|
| **Cable overall diameter(mm)** | Over than 1.7 mm below 2.4 mm |
| **Material** | Silicone |
| **Color** | Dark Blue |

## (L)

**(7165-1766)**

| | |
|---|---|
| **Cable overall diameter(mm)** | Over than 2.4 mm below 3.0 mm |
| **Material** | Silicone |
| **Color** | Reddish Brown（ベンガラ） |

2.3mm (090)

# Dummy plugs (UNIT : mm)

**Ref; 2.3mm Dummy plug detail**

(**7165-0193**) J-07

• Dummy plugs are common to M and F.
• Dummy plugs are used to blind unused terminal holes.

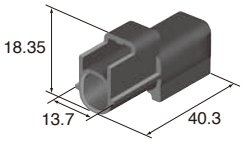
# 2.3mm (090)

## Housing (UNIT : mm)

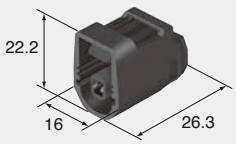
| | |
|---|---|
| **Ref: Terminal part No.** | H-02 |
| **Ref: wire seal No.** | H-04 |
| **Ref: Dummy plug No.** | J-07 |
| **Material** | PBT |

### 1way

**Color** Black




**M (6181-6658)**

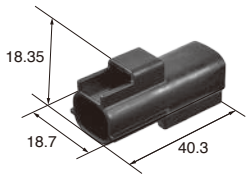



**F (6189-7214)**

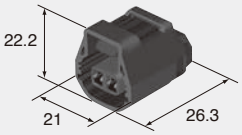
**Color** Black

### 2way

**Color** Black




**M (6181-7150)**

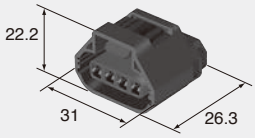



**F (6189-7189)**

**Color** Black

### 4way

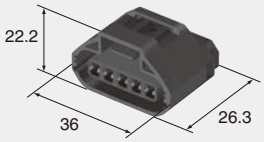
**F (6189-7188)**




**Color** Black

### 5way

**F (6189-7190)**




**Color** Black