US SERIES CONNECTOR
FOR AUTOMOBILES

Connect with the Best
### Specifications of Terminals

<table>
<thead>
<tr>
<th>Type</th>
<th>Wire Size</th>
<th>Applicable Wire Size (mm²)</th>
<th>Cable Overall Diameter (mm)</th>
<th>Applicable Tab Thickness (mm)</th>
<th>Contact Resistance Initial</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>m²</td>
<td>AWG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>unsealed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type1</td>
<td>0.64</td>
<td>Inline/Device</td>
<td>0.22 - 0.8</td>
<td>24 - 18</td>
<td>1.5 - 2.2</td>
</tr>
<tr>
<td></td>
<td>1.5</td>
<td>Inline</td>
<td>0.35 - 1.0</td>
<td>22 - 16</td>
<td>1.7 - 2.4</td>
</tr>
<tr>
<td></td>
<td>2.8</td>
<td>Device</td>
<td>0.35 - 1.0</td>
<td>22 - 16</td>
<td>1.7 - 2.4</td>
</tr>
<tr>
<td></td>
<td>6.3</td>
<td>Inline/Device</td>
<td>0.5 - 5.0</td>
<td>20 - 10</td>
<td>1.9 - 4.0</td>
</tr>
<tr>
<td>Type2</td>
<td>0.64</td>
<td>Inline</td>
<td>0.13 - 0.8</td>
<td>26 - 18</td>
<td>1.3 - 2.2</td>
</tr>
<tr>
<td></td>
<td>2.8</td>
<td>Device</td>
<td>0.35 - 5.0</td>
<td>22 - 10</td>
<td>1.7 - 4.0</td>
</tr>
<tr>
<td>sealed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type1</td>
<td>0.64</td>
<td>Device</td>
<td>(see the above unsealed Type1 0.64)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.5</td>
<td>Inline</td>
<td>0.35 - 1.0</td>
<td>22 - 16</td>
<td>1.7 - 2.4</td>
</tr>
<tr>
<td></td>
<td>9.5</td>
<td>Device</td>
<td>0.35 - 1.0</td>
<td>22 - 16</td>
<td>1.7 - 2.4</td>
</tr>
<tr>
<td>Type2</td>
<td>2.8</td>
<td>Inline</td>
<td>0.5 - 5.0</td>
<td>20 - 10</td>
<td>1.9 - 4.0</td>
</tr>
<tr>
<td>HFC</td>
<td></td>
<td>inner</td>
<td>RG174,316,62,58</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>outer</td>
<td>RG174,316,62,58</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
CONTENTS

US UNSEALED SERIES For INLINE Type1  
US UNSEALED SERIES For DEVICE Type1  
US UNSEALED SERIES For INLINE Type2  
US UNSEALED SERIES For DEVICE Type2  
US SEALED SERIES For INLINE  
US SEALED SERIES For DEVICE Type1  
US SEALED SERIES For DEVICE Type2  
Door Connector Type1  
Door Connector Type2  
HFC SERIES  

3  
7  
11  
14  
16  
18  
19  
21  
25  
31
US UNSEALED SERIES

**Structure**

- **Connector M**
- **Connector F**

**Features**

**US unsealed series comply with SAE/USCAR-2.**
This series consists of 0.64mm, 1.5mm, 2.8mm, and 6.3mm types classified according to terminal size, covering an extensive array of applications from signal to power circuits.

**US非防水系列达到了SAE／USCAR-2标准。**
按照端子尺寸划分为0.64mm, 1.5mm · 2.8mm · 6.3mm型, 从信号回路到电源回路, 能广泛应用。

- The connector mechanism only allows the TPA to be set when the terminal is completely inerted.
- TPAs are pre-mounted on housings, and are structured to enable setting by the same simple operation regardless of the number of ways, improving TPA operation.

- 具有当端子在半插入状态时, TPA无法组装到位的构造。
- TPA预先安装在接插件护套上, 无论多少极数都能够通过简单的统一操作进行安装, 可提高工作效率。
### US UNSEALED SERIES

**For INLINE Type1**

#### Terminal (UNIT: mm)

<table>
<thead>
<tr>
<th>Model</th>
<th>Wire Size</th>
<th>Cable Diameter</th>
<th>Material</th>
<th>Surface Treatment</th>
<th>Tab Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>F (8100-3619)</strong></td>
<td>0.22-0.35</td>
<td>1.5-1.7</td>
<td>Heat-resistant copper alloy</td>
<td>Sn plated</td>
<td>0.64</td>
</tr>
<tr>
<td><strong>F (8100-3618)</strong></td>
<td>0.5-0.8</td>
<td>1.9-2.2</td>
<td>Heat-resistant copper alloy</td>
<td>Sn plated</td>
<td>0.64</td>
</tr>
<tr>
<td><strong>M (8100-4405)</strong></td>
<td>0.35-0.5</td>
<td>1.7-1.9</td>
<td>Heat-resistant copper alloy</td>
<td>Sn plated</td>
<td>0.64</td>
</tr>
<tr>
<td><strong>F (8240-0123)</strong></td>
<td>0.22-0.35</td>
<td>1.5-1.7</td>
<td>Heat-resistant copper alloy</td>
<td>Sn plated</td>
<td>0.64</td>
</tr>
<tr>
<td><strong>F (8240-0124)</strong></td>
<td>0.8-1.0</td>
<td>2.2-2.4</td>
<td>Heat-resistant copper alloy</td>
<td>Sn plated</td>
<td>0.64</td>
</tr>
</tbody>
</table>

---

**Prominent Features**

- **Application**: Connector for automobiles
- **Series**: US Unsealed Series
- **Material**: Brass, Heat-resistant copper alloy
- **Surface Treatment**: Sn plated, Au plated
- **Applicable Tab Thickness**: 0.64 mm
- **Cable Overall Diameter**: 1.7-2.2 mm
- **Applicable Wire Size**: 0.22-1.0 mm²
### 2.8 (S)

**Applicable wire size (mm²):** 0.35-0.5
AWG22-20

**Cable overall diameter (mm):** 1.7-1.9

**Material:** Brass

**Surface treatment:** Sn plated

**Applicable Tab Thickness (mm):** 0.64

### 2.8 (M)

**Applicable wire size (mm²):** 0.6-1.0
AWG18-16

**Cable overall diameter (mm):** 2.2-2.4

**Material:** Brass

**Surface treatment:** Sn plated

**Applicable Tab Thickness (mm):** 0.64

### 2.8 (L)

**Applicable wire size (mm²):** 2.0-3.0
AWG14-12

**Cable overall diameter (mm):** 2.7-3.3

**Material:** Brass

**Surface treatment:** Sn plated

**Applicable Tab Thickness (mm):** 0.64

### 6.3 (S)

**Applicable wire size (mm²):** 0.5-1.0
AWG20-16

**Cable overall diameter (mm):** 1.9-2.4

**Material:** Heat-resistant copper alloy

**Surface treatment:** Sn plated

**Applicable Tab Thickness (mm):** 0.8

### 6.3 (M)

**Applicable wire size (mm²):** 2.0
AWG14

**Cable overall diameter (mm):** 2.7

**Material:** Heat-resistant copper alloy

**Surface treatment:** Sn plated

**Applicable Tab Thickness (mm):** 0.8

### 6.3 (L)

**Applicable wire size (mm²):** 3.0-5.0
AWG12-10

**Cable overall diameter (mm):** 3.3-4.0

**Material:** Heat-resistant copper alloy

**Surface treatment:** Sn plated

**Applicable Tab Thickness (mm):** 0.8
1.5 2way

Ref: Terminal part No. P3
Material: PBT
Color: Black

M (6098-5513) key-A
F (6098-5510) key-A

1.5 4way

Ref: Terminal part No. P3
Material: PBT
Color: Black

M (6098-5519) key-A
F (6098-5516) key-A

1.5 8way

Ref: Terminal part No. P3
Material: PBT
Color: Natural

M (6098-4905) note)
F (6098-4787) note)

1.5 (8) 2.8 (4) 12way

Ref: Terminal part No. [1.5] P3 [2.8] P3
Material: PBT
Color: Natural

M (6098-4900)
F (6098-4789)
SELF ALIGNING CONNECTOR

**2.8 (16) 6.3 (6) 22way**

**F (6098-4937)**

Ref: Terminal part No.  
[2.8] P3  
[6.3] P3

<table>
<thead>
<tr>
<th>Material</th>
<th>PBT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Natural</td>
</tr>
</tbody>
</table>

**F cover (6098-4941)**

<table>
<thead>
<tr>
<th>Material</th>
<th>PBT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Natural</td>
</tr>
</tbody>
</table>

**1.5 (28) 2.8 (14) 6.3 (5) 47way**

**F (6098-5502) A**

Ref: Terminal part No.  
[1.5] P3  
[2.8] P3  
[6.3] P3

<table>
<thead>
<tr>
<th>Material</th>
<th>PBT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Natural</td>
</tr>
</tbody>
</table>

**F cover (6911-4320) A**

<table>
<thead>
<tr>
<th>Material</th>
<th>PBT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Natural</td>
</tr>
</tbody>
</table>

**1.5 (28) 2.8 (14) 6.3 (5) 47way**

**F (6098-5503) B**

Ref: Terminal part No.  
[1.5] P3  
[2.8] P3  
[6.3] P3

<table>
<thead>
<tr>
<th>Material</th>
<th>PBT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Gray</td>
</tr>
</tbody>
</table>

**F cover (6911-4321) B**

<table>
<thead>
<tr>
<th>Material</th>
<th>PBT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Gray</td>
</tr>
</tbody>
</table>

**1.5 (28) 2.8 (16) 6.3 (6) 50way**

Ref: Terminal part No.  
[1.5] P3  
[2.8] P3  
[6.3] P3

<table>
<thead>
<tr>
<th>Material</th>
<th>PBT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
</tbody>
</table>

**M (6098-5587)**

**F (6098-5504)**

Ref: Terminal part No.  
[1.5] P3  
[2.8] P3  
[6.3] P3

<table>
<thead>
<tr>
<th>Material</th>
<th>PBT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
</tbody>
</table>

**F cover (6911-4322)**

<table>
<thead>
<tr>
<th>Material</th>
<th>PBT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
</tbody>
</table>
US UNSEALED SERIES
For DEVICE Type1

**2.8 (S)**

F(8100-4443)

<table>
<thead>
<tr>
<th>Applicable wire size (mm²)</th>
<th>AWG22-20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable overall diameter (mm)</td>
<td>1.7-1.9</td>
</tr>
<tr>
<td>Material</td>
<td>Heat-resistant copper alloy</td>
</tr>
<tr>
<td>Surface treatment</td>
<td>Sn plated</td>
</tr>
<tr>
<td>Applicable Tab Thickness (mm)</td>
<td>0.8</td>
</tr>
</tbody>
</table>

**2.8 (L)**

F(8100-4445)

<table>
<thead>
<tr>
<th>Applicable wire size (mm²)</th>
<th>AWG14-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable overall diameter (mm)</td>
<td>2.7-3.3</td>
</tr>
<tr>
<td>Material</td>
<td>Heat-resistant copper alloy</td>
</tr>
<tr>
<td>Surface treatment</td>
<td>Sn plated</td>
</tr>
<tr>
<td>Applicable Tab Thickness (mm)</td>
<td>0.8</td>
</tr>
</tbody>
</table>

**Housing (UNIT : mm)**

**1.5 2way**

F(6098-5510) key-A

<table>
<thead>
<tr>
<th>Ref/Terminal part No.</th>
<th>P7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>PBT</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
</tbody>
</table>

**1.5 2way**

F(6098-6183) key-D

<table>
<thead>
<tr>
<th>Ref/Terminal part No.</th>
<th>P7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>PBT</td>
</tr>
<tr>
<td>Color</td>
<td>Green</td>
</tr>
</tbody>
</table>

**1.5 2way**

F(6098-5527) key-B

<table>
<thead>
<tr>
<th>Ref/Terminal part No.</th>
<th>P7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>PBT</td>
</tr>
<tr>
<td>Color</td>
<td>Natural</td>
</tr>
</tbody>
</table>

**1.5 4way**

F(6098-5516) key-A

<table>
<thead>
<tr>
<th>Ref/Terminal part No.</th>
<th>P7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>PBT</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
</tbody>
</table>
### 1.5 6way low profile

#### F (6098-5985)
- **Material**: PBT
- **Color**: Black

#### F cover (6911-4765)
- **Material**: PBT
- **Color**: Natural

### 1.5 6way

#### F (6098-4536)
- **Material**: PBT
- **Color**: Orange

#### F cover (6911-4765)
- **Material**: PBT
- **Color**: Black

### 1.5 6way

#### F (6098-4611)
- **Material**: PBT
- **Color**: Gray

#### F cover (6911-4765)
- **Material**: PBT
- **Color**: Natural

### 1.5 6way

#### F (6098-5240)
- **Material**: PBT
- **Color**: Green

### 2.8 6way

#### F (6098-4542)
- **Material**: PBT
- **Color**: Black

### 2.8 6way

#### F (6098-4606)
- **Material**: PBT
- **Color**: Brown

### 2.8 8way

#### F (6098-4713)
- **Material**: PBT
- **Color**: Black

---

**note**: correspondence to USCAR Footprint
2.8 8way

F (6098-4798) \(\text{key-B note)}\)

- Ref: Terminal part No. P7
- Material: PBT
- Color: Gray

6.3 2way

F (6098-4539) \(\text{note)}\)

- Ref: Terminal part No. P3
- Material: PBT
- Color: Black

2.8 (6) 6.3 (3) 29way Bolt Type

F cover (6911-4475)

- Material: PBT
- Color: Black

F TPA (6098-5474)

- Material: PBT
- Color: Natural

F (6098-5473)

- Ref: Terminal part No. [2.8] P7 [6.3] P3
- Material: PBT
- Color: Black

Note: Correspondence to USCAR Footprint
### 2.8 (56)  6.3 (6) 62way  Bolt Type

#### F cover (6911-5800)
- **Material**: PBT
- **Color**: Natural

#### F cover (6911-5801)
- **Material**: PBT
- **Color**: Gray

#### F (6098-5479)
- **Ref. Terminal part No.**: [2.8] P7
- **Material**: PBT
- **Color**: Black

#### F (6098-5480)
- **Ref. Terminal part No.**: [6.3] P3
- **Material**: PBT
- **Color**: Black

#### F TPA (6098-5475)
- **Material**: PBT
- **Color**: Natural
# US UNSEALED SERIES
For INLINE Type2

## Terminal (UNIT: mm)

<table>
<thead>
<tr>
<th>0.64 (S)</th>
<th>0.64 (M)</th>
<th>0.64 (L)</th>
<th>2.8 (SS)</th>
<th>2.8 (S)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>M (8230-5221)</strong></td>
<td><strong>M (8230-5222)</strong></td>
<td><strong>M (8230-5223)</strong></td>
<td><strong>M (8230-5303)</strong></td>
<td><strong>M (8230-5257)</strong></td>
</tr>
<tr>
<td>Applicable wire size (mm²)</td>
<td>0.13</td>
<td>0.22-0.35</td>
<td>0.5-0.8</td>
<td>0.35</td>
</tr>
<tr>
<td></td>
<td>AWG26</td>
<td>AWG24-22</td>
<td>AWG20-18</td>
<td>AWG22</td>
</tr>
<tr>
<td>Cable overall diameter (mm)</td>
<td>1.3</td>
<td>1.5-1.7</td>
<td>1.9-2.2</td>
<td>1.7</td>
</tr>
<tr>
<td>Material</td>
<td>Brass</td>
<td>Brass</td>
<td>Brass</td>
<td>Heat-resistant copper alloy</td>
</tr>
<tr>
<td>Surface treatment</td>
<td>Sn plated</td>
<td>Sn plated</td>
<td>Sn plated</td>
<td>Sn plated</td>
</tr>
<tr>
<td>Applicable Tab Thickness (mm)</td>
<td>0.64</td>
<td>0.64</td>
<td>0.64</td>
<td>0.8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>M (8240-0477)</strong></th>
<th><strong>M (8240-0423)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable wire size (mm²)</td>
<td>0.35</td>
</tr>
<tr>
<td></td>
<td>AWG22</td>
</tr>
<tr>
<td>Cable overall diameter (mm)</td>
<td>1.7</td>
</tr>
<tr>
<td>Material</td>
<td>Heat-resistant copper alloy</td>
</tr>
<tr>
<td>Surface treatment</td>
<td>Sn plated</td>
</tr>
<tr>
<td>Applicable Tab Thickness (mm)</td>
<td>0.8</td>
</tr>
</tbody>
</table>
**2.8 (M)**

- Applicable wire size (mm²): 1.5-2.5
- Cable overall diameter (mm): 2.4-2.7
- Material: Brass
- Surface treatment: Sn plated
- Applicable Tab Thickness (mm): 0.8

**M (8230-5258)**

- Applicable wire size (mm²): 1.5-2.5
- Cable overall diameter (mm): 2.4-2.7
- Material: Heat-resistant copper alloy
- Surface treatment: Sn plated
- Applicable Tab Thickness (mm): 0.8

**2.8 (LL)**

- Applicable wire size (mm²): 4.0-5.0
- Cable overall diameter (mm): 4.0
- Material: Heat-resistant copper alloy
- Surface treatment: Sn plated
- Applicable Tab Thickness (mm): 0.8

**M (8230-5260)**

- Applicable wire size (mm²): 1.5-2.5
- Cable overall diameter (mm): 2.4-2.7
- Material: Heat-resistant copper alloy
- Surface treatment: Sn plated
- Applicable Tab Thickness (mm): 0.8

- Applicable wire size (mm²): 4.0-5.0
- Cable overall diameter (mm): 4.0
- Material: PBT
- Color: Black
- Ref: Terminal part No. [0.64] * [1.5] * [2.8] P11

**M (6098-7127) key-A**

- Ref: Terminal part No. [0.64] * [1.5] * [2.8] P11
- Material: PBT
- Color: Black
- Housing (UNIT: mm)
  - * For terminal selection, please contact our sales staff.

- Applicable wire size (mm²): 4.0-5.0
- Cable overall diameter (mm): 4.0
- Material: PBT
- Color: Gray
- Ref: Terminal part No. [0.64] * [1.5] * [2.8] P11

**M (6098-7129) key-B**

- Ref: Terminal part No. [0.64] * [1.5] * [2.8] P11
- Material: PBT
- Color: Gray

**2.8 (L)**

- Applicable wire size (mm²): 3.0
- Cable overall diameter (mm): 3.3
- Material: Brass
- Surface treatment: Sn plated
- Applicable Tab Thickness (mm): 0.8

**M (8230-5259)**

- Applicable wire size (mm²): 3.0
- Cable overall diameter (mm): 3.3
- Material: Heat-resistant copper alloy
- Surface treatment: Sn plated
- Applicable Tab Thickness (mm): 0.8

**2.8 double crimping**

- Applicable wire size (mm²): -
- Cable overall diameter (mm): -
- Material: Heat-resistant copper alloy
- Surface treatment: Sn plated
- Applicable Tab Thickness (mm): 0.8

**F (8240-0427)**

- Applicable wire size (mm²): -
- Cable overall diameter (mm): -
- Material: Heat-resistant copper alloy
- Surface treatment: Sn plated
- Applicable Tab Thickness (mm): 0.8

**F (8240-0424)**

- Applicable wire size (mm²): 1.5-2.5
- Cable overall diameter (mm): 2.4-2.7
- Material: Heat-resistant copper alloy
- Surface treatment: Sn plated
- Applicable Tab Thickness (mm): 0.8

**F (8240-0426)**

- Applicable wire size (mm²): 4.0-5.0
- Cable overall diameter (mm): 4.0
- Material: Heat-resistant copper alloy
- Surface treatment: Sn plated
- Applicable Tab Thickness (mm): 0.8

**F (8240-0427)**

- Applicable wire size (mm²): 3.0
- Cable overall diameter (mm): 3.3
- Material: Heat-resistant copper alloy
- Surface treatment: Sn plated
- Applicable Tab Thickness (mm): 0.8

**F (8240-0425)**

- Applicable wire size (mm²): 3.0
- Cable overall diameter (mm): 3.3
- Material: Heat-resistant copper alloy
- Surface treatment: Sn plated
- Applicable Tab Thickness (mm): 0.8

**Ref: Terminal part No.**

- [0.64] * [1.5] * [2.8] P11
0.64 (44) 2.8 (12) 6.3 (3) 59way

M cover1 (6911-4747)

Material: PBT
Color: Black

M cover2 (6911-4852)

Material: PBT
Color: Black

M cover3 (6911-5315)

Material: PBT
Color: Black

Key-A

Ref. Terminal part No. [0.64] P11 [2.8] [6.3] *
Material: PBT
Color: Black

Key-B

Ref. Terminal part No. [0.64] P11 [2.8] [6.3] *
Material: PBT
Color: Natural

F cover (6911-4748)

Ref. Terminal part No. [0.64] [2.8] [6.3] *
Material: PBT
Color: Black
US UNSEALED SERIES
For DEVICE Type2
* For terminal selection, please contact our sales staff.

**Housing** (UNIT: mm)

**9.5 1way**

- **F** (6098-6572)
  - **Material**: PBT
  - **Color**: Black

- **F cover** (6911-5010)
  - **Material**: PBT
  - **Color**: Black

**1.5 (20) 2.8 (8) 6.3 (4) 32way**

- **F** (6098-6461)
  - **Material**: PBT
  - **Color**: Black

- **F cover** (6911-5636)
  - **Material**: PBT
  - **Color**: Black

**2.8 8way Header**

- **M** (6098-6316) note]
  - **Material**: PBTG30
  - **Color**: Black

- **F** (6098-6412) note]
  - **Material**: PBT
  - **Color**: Orange

- **F** (6098-6415) note]
  - **Material**: PBT
  - **Color**: Brown

*note] correspondence to US CAR Foot print
US SEALED SERIES

Structure

Connector M
- Housing
- TPA
- Terminal
- Wire Seal

Connector F
- Housing
- TPA
- Terminal
- Wire Seal

Features
特点

US sealed series comply with SAE/USCAR-2.
This series consists of 0.64mm, 1.5mm, 2.8mm and 9.5mm types classified according to terminal size, covering an extensive array of applications from signal to power circuits.

US防水系列达到了SAE/USCAR-2标准。
按照端子尺寸划分为0.64mm·1.5mm·2.8mm·9.5mm型, 从信号回路到电源回路, 能广泛应用。

- The connector mechanism only allows the TPA to be set when the terminal completely inerted.
- TPAs are pre-mounted on housings, and are structured to enable setting by the same simple operation regardless of the number of ways, improving operation.

- 具有当端子在半插入状态时, TPA无法组装到位的构造。
- TPA预先安装在接插件护套上, 无论多少极数都能够通过简单的统一操作进行安装, 可提高工作效率。
## US SEALED SERIES
For INLINE

### Terminal (UNIT: mm)

#### 1.5 (S)

<table>
<thead>
<tr>
<th>Feature</th>
<th>M (8100-4366)</th>
<th>F (8100-4375)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable wire size (mm²)</td>
<td>0.35-0.5</td>
<td>0.35-0.5</td>
</tr>
<tr>
<td>Cable overall diameter (mm)</td>
<td>1.7-1.9</td>
<td>1.7-1.9</td>
</tr>
<tr>
<td>Material</td>
<td>Brass</td>
<td>Brass</td>
</tr>
<tr>
<td>Surface treatment</td>
<td>Sn plated</td>
<td>Sn plated</td>
</tr>
<tr>
<td>Applicable Tab Thickness (mm)</td>
<td>0.64</td>
<td>0.64</td>
</tr>
</tbody>
</table>

#### 1.5 (M)

<table>
<thead>
<tr>
<th>Feature</th>
<th>M (8100-4373)</th>
<th>F (8100-4381)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable wire size (mm²)</td>
<td>0.8-1.0</td>
<td>0.8-1.0</td>
</tr>
<tr>
<td>Cable overall diameter (mm)</td>
<td>2.2-2.4</td>
<td>2.2-2.4</td>
</tr>
<tr>
<td>Material</td>
<td>Brass</td>
<td>Brass</td>
</tr>
<tr>
<td>Surface treatment</td>
<td>Sn plated</td>
<td>Sn plated</td>
</tr>
<tr>
<td>Applicable Tab Thickness (mm)</td>
<td>0.64</td>
<td>0.64</td>
</tr>
</tbody>
</table>

#### 9.5

<table>
<thead>
<tr>
<th>Feature</th>
<th>M (8100-3748)</th>
<th>F (8100-3222)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable wire size (mm²)</td>
<td>15-20</td>
<td>15-21</td>
</tr>
<tr>
<td>Cable overall diameter (mm)</td>
<td>10.3-11.5</td>
<td>10.3-11.5</td>
</tr>
<tr>
<td>Material</td>
<td>Heat-resistant copper alloy</td>
<td>Heat-resistant copper alloy</td>
</tr>
<tr>
<td>Surface treatment</td>
<td>Sn plated</td>
<td>Sn plated</td>
</tr>
<tr>
<td>Applicable Tab Thickness (mm)</td>
<td>1.2</td>
<td>1.2</td>
</tr>
</tbody>
</table>

#### F (8240-0134)

<table>
<thead>
<tr>
<th>Feature</th>
<th>F (8240-0134)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable wire size (mm²)</td>
<td>5-8</td>
</tr>
<tr>
<td>Cable overall diameter (mm)</td>
<td>10.3-11.5</td>
</tr>
<tr>
<td>Material</td>
<td>Heat-resistant copper alloy</td>
</tr>
<tr>
<td>Surface treatment</td>
<td>Sn plated</td>
</tr>
<tr>
<td>Applicable Tab Thickness (mm)</td>
<td>1.2</td>
</tr>
</tbody>
</table>
**Wire seals (UNIT: mm)** The wire seals are common to M and F.

**1.5 (S)**
- Part No.: 7165-1194
- Cable overall diameter (mm): 1.7-1.9
- Material: Silicon
- Color: Reddish Brown

**1.5 (M)**
- Part No.: 7165-1195
- Cable overall diameter (mm): 2.2-2.4
- Material: Silicon
- Color: Sky blue

**9.5 (S)**
- Part No.: 7165-1346
- Cable overall diameter (mm): 5.5-5.8
- Material: Silicon
- Color: Yellow

**9.5 (M)**
- Part No.: 7165-0782
- Cable overall diameter (mm): 7.5-8.0
- Material: Silicon
- Color: Reddish Brown

**9.5 (L)**
- Part No.: 6185-4620
- Cable overall diameter (mm): 8.7-9.0
- Material: Silicone
- Color: Gray

**Housing (UNIT: mm)**

**1.5 4way**
- Ref: Terminal part No. P16
- Ref: Wire seal No. P17
- Material: PBT
- Color: Black

**9.5 1way**
- Ref: Terminal part No. P16
- Ref: Wire seal No. P17
- Material: PBT
- Color: Black

*For 2.8 terminal & wire seal selection, please contact our sales staff.*

note) correspondence to USCAR Footprint
US SEALED SERIES
For DEVICE Type1

**Housing (UNIT: mm)**
* For terminal selection, please contact our sales staff.

<table>
<thead>
<tr>
<th>Terminal (UNIT: mm)</th>
<th>F (8100-4379)</th>
<th>F (8100-4377)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable wire size (mm²)</td>
<td>0.35-0.5 AWG22-20</td>
<td>0.8-1.0 AWG18-16</td>
</tr>
<tr>
<td>Cable overall diameter (mm)</td>
<td>1.7-1.9</td>
<td>2.2-2.4</td>
</tr>
<tr>
<td>Material</td>
<td>Heat-resistant copper alloy</td>
<td>Heat-resistant copper alloy</td>
</tr>
<tr>
<td>Surface treatment</td>
<td>Sn plated</td>
<td>Sn plated</td>
</tr>
<tr>
<td>Applicable Tab Thickness (mm)</td>
<td>0.8</td>
<td>0.8</td>
</tr>
</tbody>
</table>

**Terminal (UNIT: mm)**

### 1.5 (S)

- **F (6189-1024)** key-K note
  - Ref: Terminal part No. P3
  - Material: PBT
  - Color: Yellow

- **F (6189-7011)** key-A note
  - Ref: Terminal part No. P3
  - Material: PBT
  - Color: Black

### 1.5 (M)

- **F (6189-1019)** key-E note
  - Ref: Terminal part No. P3
  - Material: PBT
  - Color: Yellow

- **F (6189-7001)** key-E note
  - Ref: Terminal part No. P3
  - Material: PBT
  - Color: Yellow

- **F (6189-6936)** key-K note
  - Ref: Terminal part No. P3
  - Material: PBT
  - Color: Yellow

- **F (6189-7199)** key-B note
  - Ref: Terminal part No. *
  - Material: PBT
  - Color: Black

- **F (6185-4630)**
  - Material: PBT
  - Color: Gray
### US SEALED SERIES
For DEVICE Type2

#### Terminal (UNIT: mm)

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Applicable wire size (mm²)</th>
<th>Cable overall diameter (mm)</th>
<th>Material</th>
<th>Surface treatment</th>
<th>Applicable Tab Thickness (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.8(S) Sn</td>
<td>F(8240-0428)</td>
<td>0.5-1.0 AWG20-18</td>
<td>1.9-2.2</td>
<td>Heat-resistant copper alloy</td>
<td>Sn plated</td>
<td>0.8</td>
</tr>
<tr>
<td>2.8(M) Sn</td>
<td>F(8240-0429)</td>
<td>1.5-2.5 AWG16-14</td>
<td>2.4-2.7</td>
<td>Heat-resistant copper alloy</td>
<td>Sn plated</td>
<td>0.8</td>
</tr>
<tr>
<td>2.8(L) Sn</td>
<td>F(8240-0430)</td>
<td>3.0-4.0 AWG12</td>
<td>3.3</td>
<td>Heat-resistant copper alloy</td>
<td>Sn plated</td>
<td>0.8</td>
</tr>
<tr>
<td>2.8(S) Grease</td>
<td>F(8240-0431)</td>
<td>0.5-1.0 AWG20-18</td>
<td>1.9-2.2</td>
<td>Heat-resistant copper alloy</td>
<td>Sn plated</td>
<td>0.8</td>
</tr>
<tr>
<td>2.8(M) Grease</td>
<td>F(8240-0432)</td>
<td>1.5-2.5 AWG16-14</td>
<td>2.4-2.7</td>
<td>Heat-resistant copper alloy</td>
<td>Sn plated</td>
<td>0.8</td>
</tr>
<tr>
<td>2.8(L) Grease</td>
<td>F(8240-0433)</td>
<td>3.0-4.0 AWG12</td>
<td>3.3</td>
<td>Heat-resistant copper alloy</td>
<td>Sn plated</td>
<td>0.8</td>
</tr>
<tr>
<td>2.8(S) Ag</td>
<td>F(8240-0434)</td>
<td>0.5-1.0 AWG20-18</td>
<td>1.9-2.2</td>
<td>Heat-resistant copper alloy</td>
<td>Ag plated</td>
<td>0.8</td>
</tr>
<tr>
<td>2.8(M) Ag</td>
<td>F(8240-0435)</td>
<td>1.5-2.5 AWG16-14</td>
<td>2.4-2.7</td>
<td>Heat-resistant copper alloy</td>
<td>Ag plated</td>
<td>0.8</td>
</tr>
<tr>
<td>2.8(L) Ag</td>
<td>F(8240-0436)</td>
<td>3.0-4.0 AWG12</td>
<td>3.3</td>
<td>Heat-resistant copper alloy</td>
<td>Ag plated</td>
<td>0.8</td>
</tr>
</tbody>
</table>
* For terminal and wire seal selection, please contact our sales staff.

<table>
<thead>
<tr>
<th>Housing (UNIT: mm)</th>
<th>Ref: Terminal part No.</th>
<th>Material</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5 2way</td>
<td>F(6189-7171) key-A</td>
<td>PBT</td>
<td>Black</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.8 2way</td>
<td>F(6189-7290) key-A</td>
<td>PBT</td>
<td>Black</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.8 3way</td>
<td>F(6189-7374) key-C</td>
<td>PBT</td>
<td>Black</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.8 4way</td>
<td>F(6189-7375) key-B</td>
<td>PBT</td>
<td>Black</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.8 3way</td>
<td>F(6189-7291) key-A</td>
<td>PBT</td>
<td>Black</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.8 4way</td>
<td>F(6189-7292) key-A</td>
<td>PBT</td>
<td>Black</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Door Connector
Type 1

* For terminal and wire seal selection, please contact our sales staff.

1.5 (11) 2.8 (8) 19way

- **M (6098-5141)**
  - Ref: Terminal part No. P3
  - Material: PBT
  - Color: Black

- **F (6098-5144)**
  - Ref: Terminal part No. P3
  - Material: PBT
  - Color: Natural

- **M (6188-4756)**
  - Ref: Terminal part No. [1.5] P16
  - Ref: Wire seal No. [2.8] *
  - Material: PBT
  - Color: Black

- **F (6189-6900)**
  - Ref: Terminal part No. [1.5] P16
  - Ref: Wire seal No. [2.8] *
  - Material: PBT
  - Color: Black

- **M Shipping Cap (6911-5294)**
  - Material: PBT
  - Color: Natural

- **F Lever Cover Assy (6911-4230)**
  - Material: PBT, PA6T
  - Color: Black

- **F Grommet (7105-3781)**
  - Material: EPDM
  - Color: Black

(UNIT: mm)
1.5(16) 2.8(6) 22way

M Grommet (7105-3534)

Material: EPDM
Color: Black

M Grommet retainer (6920-2624)

Material: PBT
Color: Black

Ref: Terminal part No. P3
Material: PBT
Color: Natural

1.5(28) 2.8(2) 30way

M (6098-4932)  F (6098-4626)

F Lever Assy (6911-3969)

Material: PBT, PA6T
Color: Black

Material: EPDM
Color: Black

22way

Material: EPDM
Color: Black

Note: correspondence to USCAR Footprint
<table>
<thead>
<tr>
<th>Ref/Terminal part No.</th>
<th>Material</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>P3</td>
<td>PBT</td>
<td>Black</td>
</tr>
</tbody>
</table>

**M (6098-6553)**

![M Connector Image]

- 52.2
- 73.4
- 48

**F (6098-5138)**

![F Connector Image]

- 50.45
- 29.8
- 25.15

<table>
<thead>
<tr>
<th>Ref/Terminal part No.</th>
<th>Material</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>P3</td>
<td>PBT</td>
<td>Natural</td>
</tr>
</tbody>
</table>

**M Shipping Cap (6911-5293)**

![M Shipping Cap Image]

- 20.1
- 57.4
- 39.6

**F Lever Cover Assy (6911-4228)**

![F Lever Cover Assy Image]

- 39.6
- 15
- 62.9

**F Grommet (7105-3747)**

![F Grommet Image]

- 53.9
- 33.5
- 280.2

<table>
<thead>
<tr>
<th>Ref/Terminal part No.</th>
<th>Material</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>P3</td>
<td>EPDM</td>
<td>Black</td>
</tr>
</tbody>
</table>

**US SERIES CONNECTOR FOR AUTOMOBILES**

- US SEALED SERIES
- US SERIES
- DOOR CONNECTOR
- HFC SERIES
- 40way

**Ref: Terminal part No.**

- P3
- P3
- P3

**Material**

- PBT
- PBT
- PBT

**Color**

- Black
- Black
- Natural

**50.45**

- 25.15
- 29.8

**226**

- 228
- 238

**39.6**

- 408
- 425

**280.2**

- 33.5
- 33.5

**39.6**

- 15

**62.9**

- 20.1
- 57.4
- 39.6

**Material**

- PBT, PA6T
- PBT
- EPDM

**Color**

- Black
- Natural
- Black
### 1.5(34) 2.8(6) 40way

<table>
<thead>
<tr>
<th>Ref. Terminal part No.</th>
<th>Material</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>P3</td>
<td>PBT</td>
<td>Gray</td>
</tr>
</tbody>
</table>

**M (6098-6273)**

- Material: PBT
- Color: Black

**F (6098-6277)**

- Material: EPDM
- Color: Black

**M Grommet (7105-3533)**

- Material: EPDM
- Color: Black

**M Grommet retainer (6920-2623)**

- Material: PBT
- Color: Natural

**F TPA (6098-6278)**

- Material: PBT
- Color: Natural
Door Connector
Type2

* For terminal selection, please contact our sales staff.

0.64 (8) 2.8 (6) 14way

M Grommet (7105-2287)

Material: EPDM
Color: Black

M Holder (6910-5478)

Material: PPG
Color: Black

Ref: Terminal part No. [0.64] * [2.8] *
Material: PBT
Color: Natural

Ref: Terminal part No. [0.64] * [2.8] *
Material: PBT
Color: Natural

M (6098-6486)

F (6098-3981)

M (6098-3979)
0.64 (20) 1.5 (4) 2.8 (10) 34way

Structure

TPA
TPA

Mat Seal

Mat Seal Cover

Housing

Wire in Cavities

Mat Seal Cover

Blocked Cavities

Ref: Terminal part No.
Material: PBT
Color: Black

Ref: Terminal part No.
Material: PBT
Color: Black

Ref: Terminal part No.
Material: PBT
Color: Black

Ref: Terminal part No.
Material: PBT
Color: Gray

Ref: Terminal part No.
Material: PBT
Color: Black

Ref: Terminal part No.
Material: PBT
Color: Black

Ref: Terminal part No.
Material: PBT
Color: Black

Ref: Terminal part No.
Material: PBT
Color: Black

Please see right page regarding part number

Sealed Type M

F (6098-6596) Key A

0.64 (34) 1.5 (4) 2.8 (4) 42way

Ref: Terminal part No.
Material: PBT
Color: Black

Ref: Terminal part No.
Material: PBT
Color: Black

Ref: Terminal part No.
Material: PBT
Color: Black

Ref: Terminal part No.
Material: PBT
Color: Gray

Ref: Terminal part No.
Material: PBT
Color: Black

Ref: Terminal part No.
Material: PBT
Color: Black

Ref: Terminal part No.
Material: PBT
Color: Black
### Unsealed Type 34way Part Number list
Mat seal cover blocked cavity configurations blue section indicates cavities in which plugs must be removed.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6098-6595</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Sealed Type 34way Part Number list
Mat seal cover blocked cavity configurations blue section indicates cavities in which plugs must be removed.

<table>
<thead>
<tr>
<th>6188-5140</th>
</tr>
</thead>
<tbody>
<tr>
<td>6188-5156</td>
</tr>
<tr>
<td>6188-5157</td>
</tr>
<tr>
<td>6188-5158</td>
</tr>
<tr>
<td>6188-5159</td>
</tr>
<tr>
<td>6188-5160</td>
</tr>
<tr>
<td>6188-5161</td>
</tr>
<tr>
<td>6188-5162</td>
</tr>
<tr>
<td>6188-5163</td>
</tr>
<tr>
<td>6188-5164</td>
</tr>
<tr>
<td>6188-5165</td>
</tr>
<tr>
<td>6188-5166</td>
</tr>
<tr>
<td>6188-5167</td>
</tr>
<tr>
<td>6188-5168</td>
</tr>
<tr>
<td>6188-5169</td>
</tr>
<tr>
<td>6188-5170</td>
</tr>
<tr>
<td>6188-5171</td>
</tr>
<tr>
<td>6188-5172</td>
</tr>
<tr>
<td>6188-5173</td>
</tr>
<tr>
<td>6188-5174</td>
</tr>
<tr>
<td>6188-5175</td>
</tr>
<tr>
<td>6188-5176</td>
</tr>
<tr>
<td>6188-5177</td>
</tr>
<tr>
<td>6188-5178</td>
</tr>
<tr>
<td>6188-5179</td>
</tr>
<tr>
<td>6188-5180</td>
</tr>
<tr>
<td>6188-5181</td>
</tr>
<tr>
<td>6188-5182</td>
</tr>
<tr>
<td>6188-5183</td>
</tr>
<tr>
<td>6188-5184</td>
</tr>
<tr>
<td>6188-5185</td>
</tr>
<tr>
<td>6188-5225</td>
</tr>
<tr>
<td>6188-5226</td>
</tr>
<tr>
<td>6188-5227</td>
</tr>
<tr>
<td>6188-5228</td>
</tr>
<tr>
<td>6188-5235</td>
</tr>
<tr>
<td>6188-5236</td>
</tr>
<tr>
<td>6188-5237</td>
</tr>
<tr>
<td>6188-5238</td>
</tr>
<tr>
<td>6188-5239</td>
</tr>
<tr>
<td>6188-5240</td>
</tr>
<tr>
<td>6188-5241</td>
</tr>
<tr>
<td>6188-5242</td>
</tr>
<tr>
<td>6188-5243</td>
</tr>
<tr>
<td>6188-5244</td>
</tr>
<tr>
<td>6188-5245</td>
</tr>
<tr>
<td>6188-5246</td>
</tr>
<tr>
<td>6188-5247</td>
</tr>
<tr>
<td>6188-5248</td>
</tr>
<tr>
<td>6188-5249</td>
</tr>
<tr>
<td>6188-5250</td>
</tr>
<tr>
<td>6188-5252</td>
</tr>
<tr>
<td>6188-5253</td>
</tr>
<tr>
<td>6188-5254</td>
</tr>
<tr>
<td>6188-5255</td>
</tr>
<tr>
<td>6188-5256</td>
</tr>
<tr>
<td>6188-5257</td>
</tr>
</tbody>
</table>
HFC SERIES

Structure

Connecter M

Connecter F

Features

HFC (High Frequency Connector) comply with SAE/USCAR-2, 17, 19.
HFC is connector that connect on-board multimedia devices, such as TPMS, GPS, TV, VICS and etc., and coaxial wires.
These are also suitable for mobile telephone and sensor circuit.

HFC接插件（高频接插件）达到了SAE／USCAR-2、17、19标准。
HFC接插件是使用于与TPMS・GPS・TV・VICS等车载多媒体模块相同的同轴线连接用接插件，也适用于车载电话、传感器回路上。

- It reduces reflection/transmission loss and restraints noise radiation.
- TPA for secondary lock is assembled beforehand.
- Comply with USCAR-19 key-k footprint.

- 制止传送损失、反射、杂讯放射，实现了小型高性能化。
- 预先安装了双重锁定用TPA。
- 能够达到USCAR-19的Key-k接口。
Inner terminal (UNIT: mm)

<table>
<thead>
<tr>
<th>M (8100-2799)</th>
<th>F (8100-2802)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable wire size (mm²)</td>
<td>RG174, RG316, RG62</td>
</tr>
<tr>
<td>Cable overall diameter (mm)</td>
<td>Brass</td>
</tr>
<tr>
<td>Material</td>
<td>Sn plated</td>
</tr>
<tr>
<td>Surface treatment</td>
<td>Applicable Tab Thickness (mm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>M (8100-3204)</th>
<th>F (8100-3203)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable wire size (mm²)</td>
<td>RG58</td>
</tr>
<tr>
<td>Cable overall diameter (mm)</td>
<td>Brass</td>
</tr>
<tr>
<td>Material</td>
<td>Sn plated</td>
</tr>
<tr>
<td>Surface treatment</td>
<td>Applicable Tab Thickness (mm)</td>
</tr>
</tbody>
</table>

Outer terminal (UNIT: mm)

<table>
<thead>
<tr>
<th>M (8100-4217)</th>
<th>F (8100-4219)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable wire size (mm²)</td>
<td>RG174, RG316</td>
</tr>
<tr>
<td>Cable overall diameter (mm)</td>
<td>Brass</td>
</tr>
<tr>
<td>Material</td>
<td>Sn plated</td>
</tr>
<tr>
<td>Surface treatment</td>
<td>Applicable Tab Thickness (mm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>M (8100-3686)</th>
<th>F (8100-3687)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable wire size (mm²)</td>
<td>RG58, RG62</td>
</tr>
<tr>
<td>Cable overall diameter (mm)</td>
<td>Brass</td>
</tr>
<tr>
<td>Material</td>
<td>Sn plated</td>
</tr>
<tr>
<td>Surface treatment</td>
<td>Applicable Tab Thickness (mm)</td>
</tr>
</tbody>
</table>

Housing (UNIT: mm)

HFC2 1way

<table>
<thead>
<tr>
<th>M (6098-5213)</th>
<th>F (6098-4455)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>SPS G30</td>
</tr>
<tr>
<td>Color</td>
<td>Gray</td>
</tr>
<tr>
<td>Ref: Terminal part No.</td>
<td>P32</td>
</tr>
<tr>
<td>Material</td>
<td>PBT</td>
</tr>
<tr>
<td>Color</td>
<td>Gray</td>
</tr>
<tr>
<td>mounting drawing</td>
<td></td>
</tr>
</tbody>
</table>

note: correspondence to USCAR Footprint
Which may result in overheating or fire.

- Do not exceed prescribed current to the connectors.
- Do not use a broken or cracked housing.
- Do not use a deformed or rusty terminal.

Precautions for Selection and Use of Connectors

- To select a suitable connector, please consult with our sales staff about operating environment, mounting conditions, and other information (e.g. unsealed type for indoor compartment use, sealed type for engine compartment use).
- The specifications, and performance of a connector may significantly vary depending on changes in variable elements in the operating environment, such as the number of ways, wire size, ambient temperature, etc. The specifications stated in this catalogue applies to a single terminal, and is not guaranteed when the terminal is inserted into a housing.
- The specifications, and performance of a connector may significantly vary depending on changes in variable elements in the operating environment, such as the number of ways, wire size, ambient temperature, etc. The specifications stated in this catalogue applies to a single terminal, and is not guaranteed when the terminal is inserted into a housing.
- To select a suitable connector, please consult with our sales staff about operating environment, mounting conditions, and other information (e.g. unsealed type for indoor compartment use, sealed type for engine compartment use).
- The specifications, and performance of a connector may significantly vary depending on changes in variable elements in the operating environment, such as the number of ways, wire size, ambient temperature, etc. The specifications stated in this catalogue applies to a single terminal, and is not guaranteed when the terminal is inserted into a housing.
- We have "Specifications" for connector performance and "Instruction Manuals" for connector usage, handling, and precautions, which are available for each connector series. Please be sure to read these in advance to select the appropriate connector and to use it correctly.
- Some connector series require special attention during circuit checks, etc.
- Please consult with our sales staff when requesting applicable tools and jigs (crimping machines, crimping dies, terminal removal jigs etc.).
- Although some connector specifications include drawings showing mating support, these drawings are provided only for reference. The manufacture of mating parts is not possible without consideration to dimensional tolerances, etc.
- In products目录中虽然有一部分接插件固定用支架以及对接端的内容，但仅作为参考图使用，实际制造对接端产品时，需要考虑尺寸公差。
- Product specifications may be subject to change without notice. Before using the product, please obtain a “customer drawing” “Specifications” “Instruction Manuals” from our sales staff. Please contact our sales staff for details.
- In products目录中虽然有一部分接插件固定用支架以及对接端的内容，但仅作为参考图使用，实际制造对接端产品时，需要考虑尺寸公差。
Global Network - Sales Office Locations -

Sumitomo Wiring Systems (U.S.A.) Inc.
39555 Orchard Hill Place, Suite L60 Novi, MI 48375-5523 U.S.A.
TEL +1(248)-347-9450 FAX +1(248)-347-9451

Sumitomo Wiring Systems, Ltd. (Japan)
International Sales Dept. (Nagoya Office)
Nagoya Lucent Tower, 17F 6-1, Usijima-cho, Nishi-ku, Nagoya, Aichi, 451-6017
TEL (81)52-582-6221 FAX (81)52-582-6227

International Sales Dept. (Tokyo Office)
Akasaka Center Bldg. 11F 1-3-13, Motoakasaka, Minato-ku, Tokyo, 107-0051
TEL (81)3-6384-6609 FAX (81)3-6384-5610

SWS China Ltd.
6F World Plaza 855, South Pudong Road, Pudong New Area, Shanghai, China 200120
TEL +(86)21-2028-6588 FAX +(86)21-2024-3251

H.K. Wiring Systems, Ltd.
Unit C, 9/F, CDW Building, 382-392 Castle Peak Road, Tuen Wan, N.T., Hong Kong
TEL +(852)2411-0806 FAX +(852)2413-6098

SWS Logistics & Marketing (Thailand) Co., Ltd.
35th Floor, CRC Tower, All Seasons Place, 87/2 Wireless Rd., Pathumwan, Bangkok 10330
TEL +(66)2-401-4159 FAX +(66)2-401-4137

SWS-Korea Co., Ltd.
609, KINS Tower, Bundang Intellige1, 25-1, Jeongja-dong, Bundang-gu, Seongnam-city, Kyounggi-do, Korea
TEL +(82)31-719-9710 FAX +(82)31-719-9719

SEWS-Components Europe B. V.
Andrássy ut 100, Budapest 1062, Hungary
TEL +(36)1889-0500 FAX +(36)1889-0501

http://swsct.sws.co.jp/components/en/