

## Introduction

**AMP MCP offers  
High Reliability for  
Long Term Use**



The AMP MCP (Multiple Contact Point) Connector System is designed for electronic and electrical applications in motor vehicles.

It fulfills all requirements for a connector system for use in automobiles and covers a wide range of applications.

### AMP MCP Contacts

- Basic material (CuNiSi) with high current capacity
- 3 redundant contact points (1.5 mm type), 4 contact points (2.8 mm/6.3 mm type), 6 contact points (9.5 mm type)
- Good guiding inside the cavity
- Protected contact spring due to the closed box
- Overstress protection of the contact springs
- Steel box with secondary locking possibility from four sides
- Protected locking lance

### AMP MCP Connectors

- High reliability status supported for long term use
- High vibration level supported
- Perfect design to avoid quality problems, reduce manufacturing and service cost
- Integrated secondary locking device delivered in pre-locked position
- Wire-to-wire sealed and unsealed connectors (SWS)
- Wire-to-board sealed and unsealed connectors (SWS)
- Polarisation, several keyings
- Locking mechanism for smaller connectors/mating aid for higher numbers of ways

**SUPERSEDED  
NOT the LATEST  
REVISION**

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Engineering Notes

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## Introduction



The AMP MCP Contact System is mainly used in the automotive industry. Each contact consists of a flat receptacle, which mates with a flat tab. Every contact has got a steel spring and a copper alloy body.

The two-piece contact design means that the electrical and mechanical properties are separated. One end of the contact body is crimped to wire and the other end mates with the matching tab. The closed spring has got several functions and also different advantages for the complete contact system.

- Protection of the contact springs
- No over elongation of the contact springs possible under normal circumstances
- No possibility to connect from the rear side
- Protection against mechanical damage
- Good guiding in the cavity
- Secondary locking possible (from 4 directions)
- Assembly into housing fully-automatically

In addition there are usually two lances on the steel to spring. These serve to lock the contact securely in the housing.

### The Main Advantages of the Body are:

- Several contact points
- Large range of wire sizes (from 0.2 mm<sup>2</sup> at AMP MCP 1.5K up to 16.0 mm<sup>2</sup> at AMP MCP 9.5)
- Base material with very high current capability
- High vibrational load

Tabs and receptacles can be applied in both sealed and unsealed connectors.

AMP MCP contacts can be fast and economically arranged to the lead using Tyco Electronics application tooling.

### Receptacle Contacts (for 0.6 mm Tab Thickness)

#### Technical Features

##### Contact Material:

CuNiSi

Top Spring: Stainless Steel

##### Contact Finish:

Tin plated, selective silver plated,  
selective gold plated

##### Wire Size Range:

0.20–0.35 mm<sup>2</sup>, 0.5–1.0 mm<sup>2</sup>,  
>1.0–1.5 mm<sup>2</sup> (FLR Cable)

##### Current Carrying Capacity:

up to 20 Ampere  
(at 20 °C ambient temperature)

##### Temperature Range:

–40 °C ... +130 °C (tin plated)  
–40 °C ... +140 °C (silver plated)  
–40 °C ... +150 °C (gold plated)

##### Modular Dimensions

(Centerline):

##### 0.2–1.5 mm<sup>2</sup> SRC:

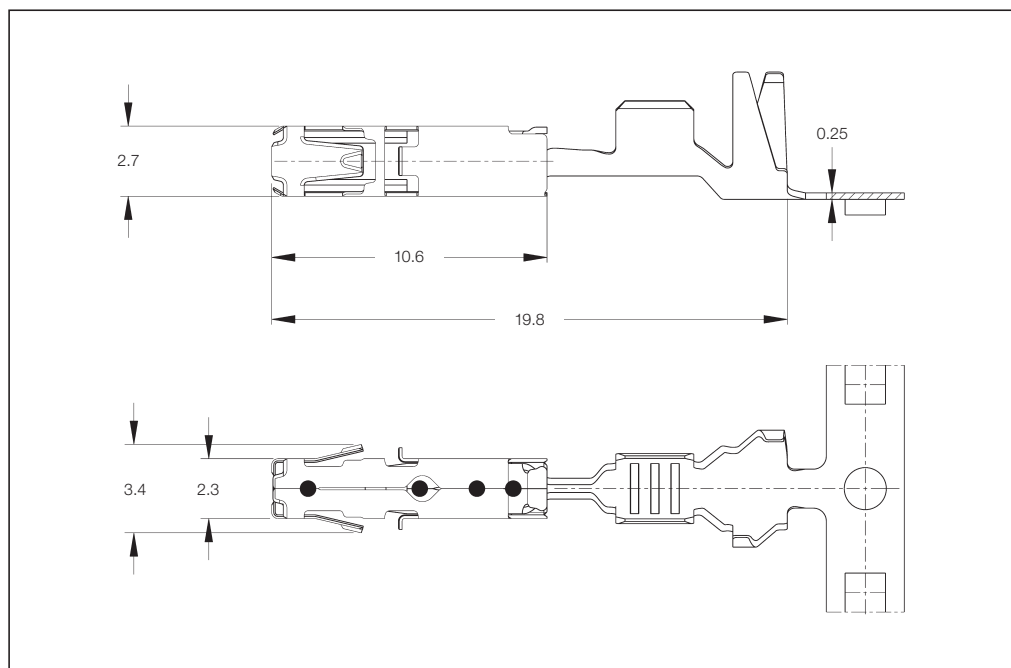
– 4.0 x 4.0 mm  
– 4.0 x 3.5 mm (Staggered)

##### 0.2–1.5 mm<sup>2</sup> SWS:

– 4.0 x 4.0 mm  
– 4.0 x 3.5 mm (Staggered)

##### Mating Cycles:●

up to 10 cycles (tin plated)  
up to 50 cycles (silver plated)  
up to 100 cycles (gold plated)



##### Contact Resistance:

New State ≤ 2 mΩ

##### Mating Force: Max. 6 N

##### Unmating Force: Max. 6 N

##### Dimension of Male Contacts:

1.5<sup>+0.2</sup><sub>-0.1</sub> x 0.6<sup>+0.07</sup><sub>-0.03</sub> mm

##### Extraction Tool:

Part No. 1-1579007-1

##### Product Group Drawing:

1241436

##### Product Specification:

108-18716

##### Application Specification:

114-18386

● Mating Cycles are depending on various technical influences and must be clarified in each individual case.

#### Standard Receptacle Contacts (SRC)

| Wire Size Range (mm <sup>2</sup> ) | Insulation Diameter (mm) |              | Material and Finish* | Part Numbers |                  |             |                  |             |           |
|------------------------------------|--------------------------|--------------|----------------------|--------------|------------------|-------------|------------------|-------------|-----------|
|                                    | FLK                      | FLR          |                      | Strip Form   | Package Quantity | Loose-Piece | Package Quantity | Applicator* | Hand Tool |
| 0.20–0.35                          | –                        | 1.1–1.4      | -1 / -2              | 1241372      | 10,000           | 1241373     | 500              | x-1528194-x | 2063524-1 |
| 0.5–1.0                            | –                        | 1.4–2.1      | -1 / -2              | 1241374      | 8,000            | 1241375     | 500              | x-1528195-x |           |
|                                    |                          | max. 2 x 1.6 | -1 / -2              | 1241376**    | 6,000            | 1241377**   | 500              | x-1528388-x |           |
| >1.0–1.5                           | –                        | 2.2–2.4      | -1                   | 1534334      | 7,500            | 1534335     | 500              | x-1528312-x | –         |

#### Receptacle Contacts Single Wire Sealing System (SWS)

| Wire Size Range (mm <sup>2</sup> ) | Insulation Diameter (mm) |         | Material and Finish*   | Part Numbers |                  |             |                  |             |           |
|------------------------------------|--------------------------|---------|------------------------|--------------|------------------|-------------|------------------|-------------|-----------|
|                                    | FLK                      | FLR     |                        | Strip Form   | Package Quantity | Loose-Piece | Package Quantity | Applicator* | Hand Tool |
| 0.20–0.35                          | –                        | 1.1–1.4 | -1 / -2 / -3           | 1241378      | 4,500            | 1241379     | 500              | x-1528122-x | 2063524-1 |
| 0.5–1.0                            | –                        | 1.4–2.1 | -1 / -2 / -3 / 1-xxx-2 | 1241380      | 4,500            | 1241381     | 500              | x-1528324-x |           |
| >1.0–1.5                           | –                        | 2.2–2.4 | -1 / -3                | 1418884      | 4,500            | 1418885     | 500              | x-1530008-x |           |

##### \*) Material and Finish:

xxx-1 = CuNiSi, pre-tin plated  
xxx-2 = CuNiSi, selective gold plated  
xxx-3 = CuNiSi, selective silver plated  
1-xxx-2 = CuNiSi, min. 1.27 µm selective gold plated

##### Notes:

\*\* Double Crimp

♦ The pre- and suffix for the applicators depends on the applied termination equipment.

### Receptacle Contacts (for 0.8 mm Tab Thickness)

#### Technical Features

##### Contact Material:

CuNiSi

Top Spring: Stainless Steel

##### Contact Finish:

Tin plated, selective silver plated,  
selective gold plated

##### Wire Size Range:

0.20–0.35 mm<sup>2</sup>, 0.5–1.0 mm<sup>2</sup>,  
>1.0–1.5 mm<sup>2</sup> (FLR Cable)

##### Current Carrying Capacity:

up to 20 Ampere  
(at 20 °C ambient temperature)

##### Temperature Range:

–40 °C ... +130 °C (tin plated)  
–40 °C ... +140 °C (silver plated)  
–40 °C ... +150 °C (gold plated)

##### Modular Dimensions

###### (Centerline):

##### 0.2–1.5 mm<sup>2</sup> SRC:

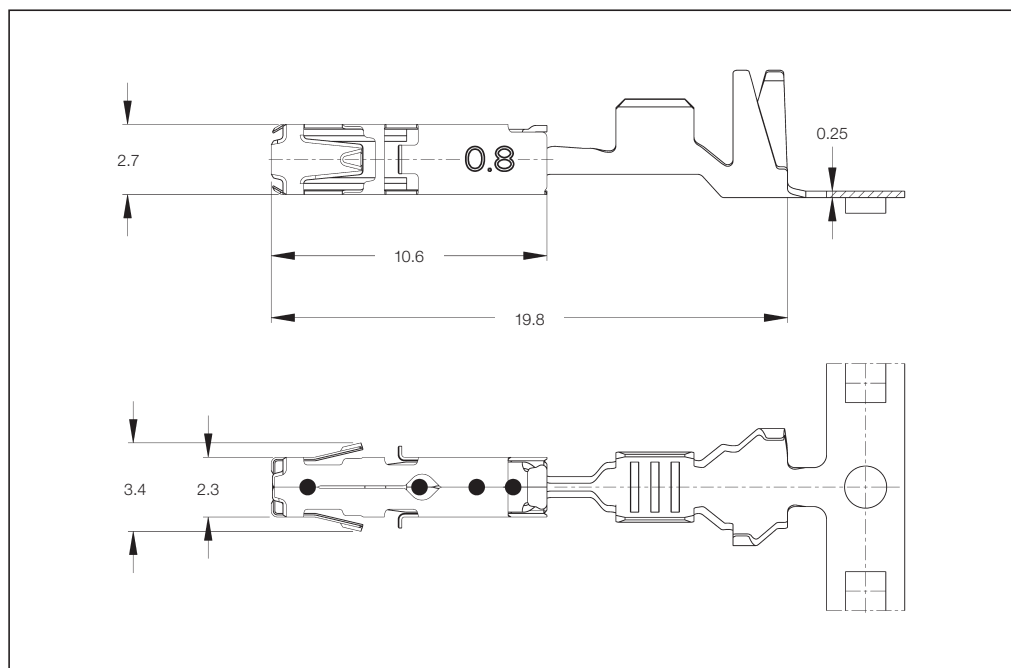
– 4.0 x 4.0 mm  
– 4.0 x 3.5 mm (Staggered)

##### 0.2–1.5 mm<sup>2</sup> SWS:

– 4.0 x 4.0 mm  
– 4.0 x 3.5 mm (Staggered)

##### Mating Cycles:●

up to 10 cycles (tin plated)  
up to 50 cycles (silver plated)  
up to 100 cycles (gold plated)



##### Contact Resistance:

New State ≤ 2 mΩ

##### Mating Force: Max. 6 N

##### Unmating Force: Max. 6 N

##### Dimension of Male Contacts:

1.5<sup>+0.2</sup><sub>-0.1</sub> x 0.8<sup>+0.03</sup> mm

##### Extraction Tool:

Part No. **1-1579007-1**

##### Product Group Drawing:

1241436

##### Product Specification:

108-18716

##### Application Specification:

114-18386

● Mating Cycles are depending on various technical influences and must be clarified in each individual case.

#### Standard Receptacle Contacts (SRC)

| Wire Size Range (mm <sup>2</sup> ) | Insulation Diameter (mm) |         | Material and Finish* | Part Numbers |                  |             |                  |             |           |
|------------------------------------|--------------------------|---------|----------------------|--------------|------------------|-------------|------------------|-------------|-----------|
|                                    | FLK                      | FLR     |                      | Strip Form   | Package Quantity | Loose-Piece | Package Quantity | Applicator* | Hand Tool |
| 0.5–1.0                            | –                        | 1.4–2.1 | -1                   | 1418408      | 8,000            | 1418409     | 500              | x-1528195-x | 2063524-1 |
| >1.0–1.5                           | –                        | 2.2–2.4 | -1                   | 1418410      | 7,500            | 1418411     | 500              | x-1528312-x | –         |

#### Receptacle Contacts Single Wire Sealing System (SWS)

| Wire Size Range (mm <sup>2</sup> ) | Insulation Diameter (mm) |           | Material and Finish* | Part Numbers |                  |             |                  |             |           |
|------------------------------------|--------------------------|-----------|----------------------|--------------|------------------|-------------|------------------|-------------|-----------|
|                                    | FLK                      | FLR       |                      | Strip Form   | Package Quantity | Loose-Piece | Package Quantity | Applicator* | Hand Tool |
| 0.20–0.35                          | –                        | 1.15–1.40 | -1                   | 1534160      | 4,500            | 1534161     | 500              | x-1528122-x | 2063524-1 |
| 0.5–1.0                            | –                        | 1.4–2.1   | -1                   | 1534162      | 4,500            | 1534163     | 500              | x-1528324-x |           |
| >1.0–1.5                           | –                        | 2.2–2.4   | -1                   | 1718558      | 4,500            | 1718559     | 500              | x-1530008-x | –         |

##### \*) Material and Finish:

xxx-1 = CuNiSi, pre-tin plated  
xxx-2 = CuNiSi, selective gold plated  
xxx-3 = CuNiSi, selective silver plated  
1-xxx-2 = CuNiSi, min. 1.27 µm selective gold plated

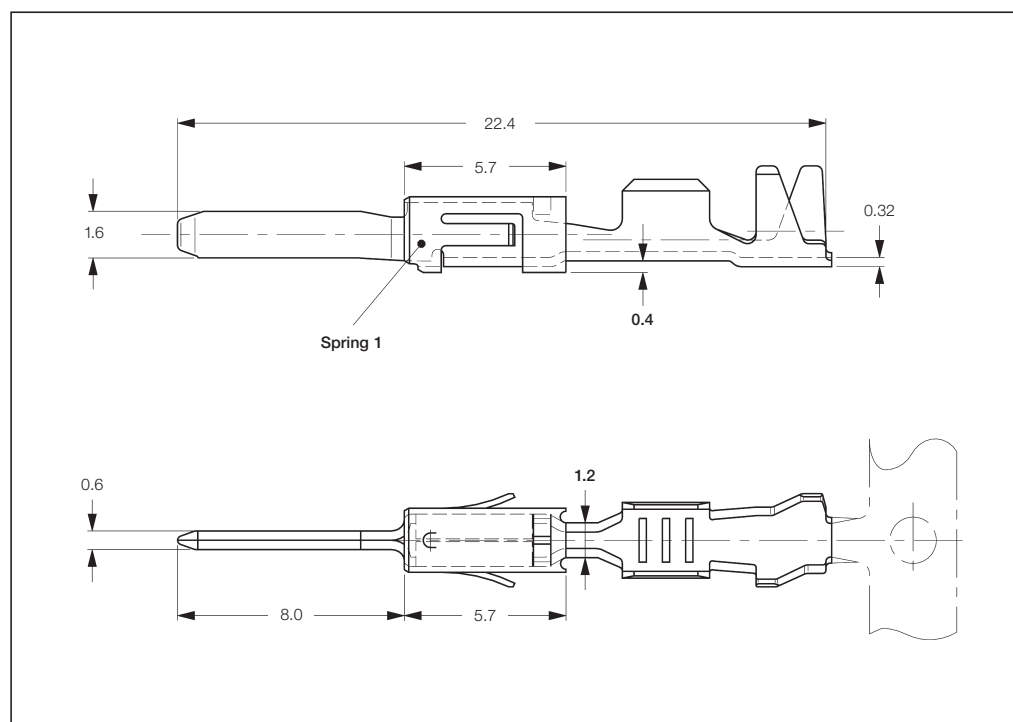
♦) The pre- and suffix for the applicators depends on the applied termination equipment.

### Tab Contacts

**Tabs 1.6 x 0.6 mm  
with Steel Top Spring,  
Mates with  
AMP MCP 1.5K  
Contact System**

**Product Specification:**  
108-18331

**Application Specification:**  
114-18082



### Standard Tab Contacts (STC)

| Wire Size Range (mm <sup>2</sup> ) | Insulation Diameter (mm) |           | Material and Finish* | Part Numbers |                  |             |                  |             | Hand Tool |
|------------------------------------|--------------------------|-----------|----------------------|--------------|------------------|-------------|------------------|-------------|-----------|
|                                    | FLK                      | FLR       |                      | Strip Form   | Package Quantity | Loose-Piece | Package Quantity | Applicator* |           |
| 0.2–0.5                            | –                        | 1.15–1.60 | -1 / -2 / -3         | 963898 1)    | 7,000            | 963899 1)   | 500              | x-1528061-x | 2063265-1 |
| 0.5–1.0                            | –                        | 1.4–2.1   | -1 / -2 / -3         | 963900 1)    | 6,000            | 963901 1)   | 500              | x-1528256-x |           |

### Tab Contacts Single Wire Sealing System (SWS)

| Wire Size Range (mm <sup>2</sup> ) | Insulation Diameter (mm) |           | Material and Finish* | Part Numbers |                  |             |                  |             | Hand Tool |
|------------------------------------|--------------------------|-----------|----------------------|--------------|------------------|-------------|------------------|-------------|-----------|
|                                    | FLK                      | FLR       |                      | Strip Form   | Package Quantity | Loose-Piece | Package Quantity | Applicator* |           |
| 0.2–0.5                            | –                        | 1.15–1.60 | -1 / -2 / -3         | 963902 1)    | 4,000            | 963903 1)   | 500              | x-1528281-x | 2063265-1 |
| 0.5–1.0                            | –                        | 1.4–2.1   | -1 / -2 / -3         | 963904 1)    | 4,000            | 963905 1)   | 500              | x-1528054-x |           |

**\*) Material and Finish:**  
xxx-1 = CuSn4, pre-tin plated  
xxx-2 = CuFe2, pre-tin plated  
xxx-3 = CuSn4, gold plated

**Remarks:**  
1) = With Spring 1

\*) The pre- and suffix for the applicators depends on the applied termination equipment.

## Tab Contacts

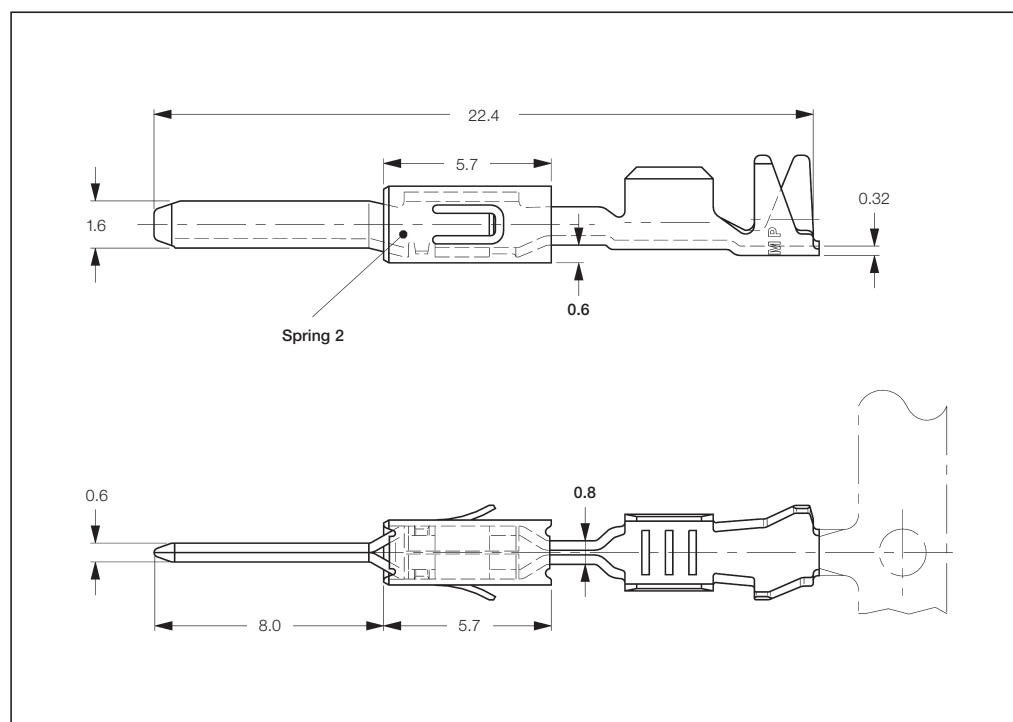
**Tabs 1.6 x 0.6 mm  
with Modified  
Steel Top Spring,  
Mates with  
AMP MCP 1.5K  
Contact System**

**Extraction Tool:**  
Part No. **539960-1**

**Product Group Drawing:**  
1355055

**Product Specification:**  
108-18331

**Application Specification:**  
114-18082



### Standard Tab Contacts with Modified Spring (STC)

| Wire Size<br>Range<br>(mm <sup>2</sup> ) | Insulation Diameter<br>(mm) |           | Material<br>and Finish * | Part Numbers            |                     |                         |                     |              |           |
|------------------------------------------|-----------------------------|-----------|--------------------------|-------------------------|---------------------|-------------------------|---------------------|--------------|-----------|
|                                          | FLK                         | FLR       |                          | Strip<br>Form           | Package<br>Quantity | Loose-<br>Piece         | Package<br>Quantity | Applicator * | Hand Tool |
| 0.2–0.5                                  | –                           | 1.15–1.60 | -2 / -3                  | 964265 <sup>2)</sup>    | 7,500               | 964266 <sup>2)</sup>    | 500                 | x-1528091-x  | 2063409-1 |
| 0.5–1.0                                  | –                           | 1.4–2.1   | -2 / -3                  | 969079 <sup>2) 3)</sup> | 5,500               | 969080 <sup>2) 3)</sup> | 500                 | x-1528096-x  |           |
| 0.5–1.0                                  | –                           | 1.4–2.1   | -1 / -2 / -3             | 964267 <sup>2)</sup>    | 6,000               | 964268 <sup>2)</sup>    | 500                 | x-1528092-x  |           |
| 1.5                                      | –                           | 2.2–2.4   | -1 / -2 / -3             | 1241846 <sup>2)</sup>   | 4,000               | 1241847 <sup>2)</sup>   | 500                 | x-1528123-x  | –         |

### Tab Contacts Single Wire Sealing System with Modified Spring (SWS)

| Wire Size<br>Range<br>(mm <sup>2</sup> ) | Insulation Diameter<br>(mm) |         | Material<br>and Finish * | Part Numbers         |                     |                      |                     |              |           |
|------------------------------------------|-----------------------------|---------|--------------------------|----------------------|---------------------|----------------------|---------------------|--------------|-----------|
|                                          | FLK                         | FLR     |                          | Strip<br>Form        | Package<br>Quantity | Loose-<br>Piece      | Package<br>Quantity | Applicator * | Hand Tool |
| 0.2–0.5                                  | –                           | 1.2–1.6 | -2 / -3                  | 969028 <sup>2)</sup> | 4,000               | 969029 <sup>2)</sup> | 500                 | x-1528068-x  | 539663-2  |
| 0.5–1.0                                  | –                           | 1.4–2.1 | -2 / -3                  | 964269 <sup>2)</sup> | 4,000               | 964270 <sup>2)</sup> | 500                 | x-1528261-x  |           |

**\*) Material and Finish:**

xxx-1 = CuSn4, pre-tin plated  
xxx-2 = CuFe2, pre-tin plated  
xxx-3 = CuSn4, gold plated

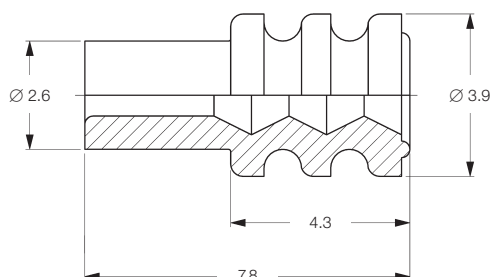
**Remarks:**

**2)** = With Spring 1 (shown on Page 3-4) or Spring 2  
**3)** = For Double and Single Termination

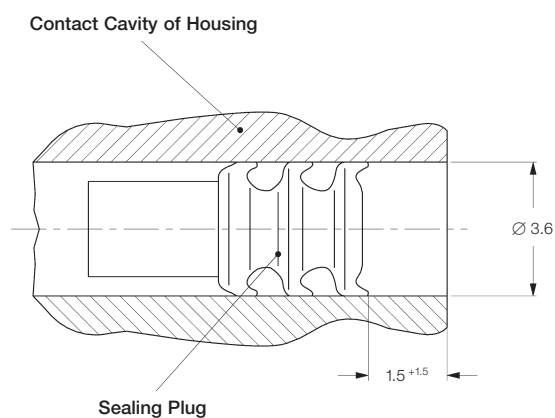
**♦)** The pre- and suffix for the applicators depends on the applied termination equipment.

### Single Wire Seals and Sealing Plugs

#### Single Wire Seals and Sealing Plugs for AMP MCP 1.5K Contact System (Cavity Diameter 3.6 mm)



| Insulation Diameter (mm) | Color   | Part Number | Package Quantity |
|--------------------------|---------|-------------|------------------|
| 0.9–1.2                  | Green   | 1718705-1   | 10,000           |
| 1.2–1.6                  | Red     | 964971-1    | 10,000           |
|                          | Blue    | 1394133-1   | 10,000           |
| 1.4–1.9                  | Gray    | 963530-1    | 10,000           |
| 1.9–2.4                  | Yellow  | 964972-1    | 10,000           |
| Sealing Plug             | White   | 963531-1    | 10,000           |
|                          | Natural | 1394132-1   | 10,000           |



### Receptacle Contacts

#### Technical Features

##### Material:

Contact: CuNiSi  
Tabs: CuSn4, CuFe2  
Top Spring: Stainless Steel

##### Contact Finish:

Tin plated, selective silver plated,  
selective gold plated

##### Wire Size Range:

0.2–0.5 mm<sup>2</sup>, 0.5–1.0 mm<sup>2</sup>,  
1.0–2.5 mm<sup>2</sup>, 2.5–4.0 mm<sup>2</sup>  
Single Wires (FLR)

##### Current Carrying Capacity:

up to 40 Ampere  
(at 20 °C ambient temperature)

##### Mating Force\*:

Max. 6 N

##### Unmating Force\*:

Max. 5 N

##### Modular Dimensions (Centerline)

##### 0.35–2.5 mm<sup>2</sup> SRC:

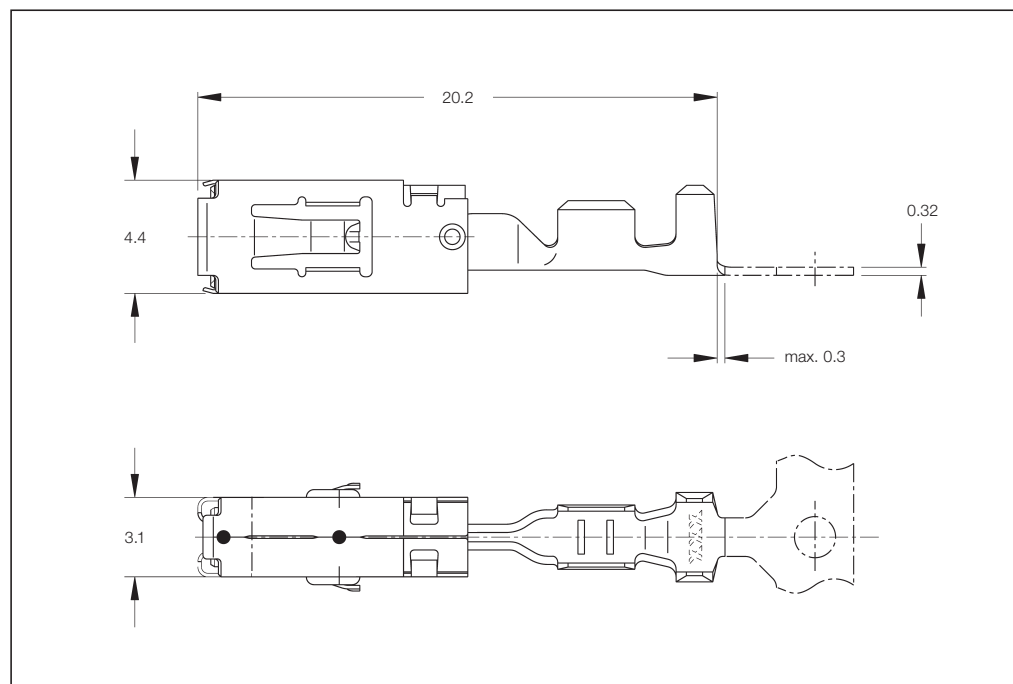
- 5.0 x 5.5 mm
- 5.0 x 5.0 mm (Staggered)

##### 2.5–4.0 mm<sup>2</sup> SRC:

- 5.5 x 5.5 mm
- 5.0 x 5.5 mm (Staggered)

##### 2.5–4.0 mm<sup>2</sup> SWS:

- 7.2 x 7.2 mm
- 6.0 x 7.2 mm (Staggered)



##### Mating Cycles:●

- up to 20 cycles (tin plated)
- up to 50 cycles (silver plated)
- up to 100 cycles (gold plated)

##### Dimension of Male Contacts:

- 2.8 ±0.1 x 0.8 ±0.03 mm
- 3.0 ±0.1 x 0.8 ±0.03 mm

##### Temperature Range:

- 40 °C ... +130 °C (tin plated)
- 40 °C ... +140 °C (silver plated)
- 40 °C ... +150 °C (gold plated)

##### Contact Resistance:

New State ≤2 mΩ

##### Extraction Tool:

Part No. **1579007-1**

##### Product Specification:

108-18513

##### Application Specification:

114-18148

##### Product Group Drawing:

1355036

\*) Steel Tab, see Specifications

●) Mating Cycles are depending on various technical influences and must be clarified in each individual case.

#### Standard Receptacle Contacts (SRC)

| Wire Size Range (mm <sup>2</sup> ) | Insulation Diameter (mm) |         | Material and Finish*        | Part Numbers |                  |             |                  |             | Hand Tool Complete |
|------------------------------------|--------------------------|---------|-----------------------------|--------------|------------------|-------------|------------------|-------------|--------------------|
|                                    | FLK                      | FLR     |                             | Strip Form   | Package Quantity | Loose-Piece | Package Quantity | Applicator* |                    |
| 0.2–0.5                            | –                        | 1.2–1.4 | 1-xxx-1 / 1-xxx-3           | 968880       | 4,500            | 968895      | 500              | x-1528381-x | 2119158-1          |
| 0.5–1.0                            | –                        | 1.4–2.1 | 1-xxx-1 / 1-xxx-2 / 1-xxx-3 | 968849       | 4,500            | 968872      | 500              | x-1528115-x | 2063534-1          |
| 1.0–2.5                            | –                        | 2.2–3.0 | 1-xxx-1 / 1-xxx-2 / 1-xxx-3 | 968851       | 3,500            | 968873      | 500              | x-1528033-x | 2063532-1          |
| 2.5–4.0                            | –                        | 3.0–3.7 | 1-xxx-1 / 1-xxx-3           | 968853       | 2,700            | 968874      | 500              | x-1528430-x |                    |

#### Receptacle Contacts Single Wire Sealing System (SWS)

| Wire Size Range (mm <sup>2</sup> ) | Insulation Diameter (mm) |         | Material and Finish*        | Part Numbers |                  |             |                  |             | Hand Tool Complete |
|------------------------------------|--------------------------|---------|-----------------------------|--------------|------------------|-------------|------------------|-------------|--------------------|
|                                    | FLK                      | FLR     |                             | Strip Form   | Package Quantity | Loose-Piece | Package Quantity | Applicator* |                    |
| 0.35                               | –                        | 1.2–1.4 | 1-xxx-1 / 1-xxx-3           | 968882       | 4,500            | 968896      | 500              | x-1426162-x | 2063623-1          |
| 0.5–1.0                            | –                        | 1.4–2.1 | 1-xxx-1 / 1-xxx-2 / 1-xxx-3 | 968855       | 3,500            | 968875      | 500              | x-1528017-x | 2063624-1          |
| 1.0–2.5                            | –                        | 2.2–3.0 | 1-xxx-1 / 1-xxx-3           | 968857       | 4,000            | 968876      | 500              | x-1528066-x | 2063523-1          |
| 2.5–4.0                            | –                        | 3.0–3.7 | 1-xxx-1 / 1-xxx-3           | 968859       | 2,500            | 968877      | 500              | x-1528067-x |                    |

\*) **Material and Finish:**  
1-xxx-1 = CuNiSi, pre-tin plated  
1-xxx-2 = CuNiSi, selective gold plated  
1-xxx-3 = CuNiSi, selective silver plated

♦) The pre- and suffix for the applicators depends on the applied termination equipment.

### Lanceless Receptacle Contacts

#### Technical Features

##### Material:

Contact: CuNiSi  
Tab: CuSn4, CuFe2  
Top Spring: Stainless Steel

##### Contact Finish:

Tin plated

##### Wire Size Range:

0.2–0.5 mm<sup>2</sup>, >0.5–1.0 mm<sup>2</sup>,  
>1.0–2.5 mm<sup>2</sup>, >2.5–4.0 mm<sup>2</sup>  
Single Wires (FLR)

##### Current Carrying Capacity:

up to 40 Ampere  
(at 20 °C ambient temperature)

##### Temperature Range:

–40 °C ... +130 °C (tin plated)  
–40 °C ... +140 °C (silver plated)  
–40 °C ... +150 °C (gold plated)

##### Modular Dimensions (Centerline):

**0.35–2.5 mm<sup>2</sup> SRC:**  
– 5.0 x 5.5 mm  
– 5.0 x 5.0 mm (Staggered)

**2.5–4.0 mm<sup>2</sup> SRC:**  
– 5.5 x 5.5 mm  
– 5.0 x 5.5 mm (Staggered)

##### Mating Force\*:

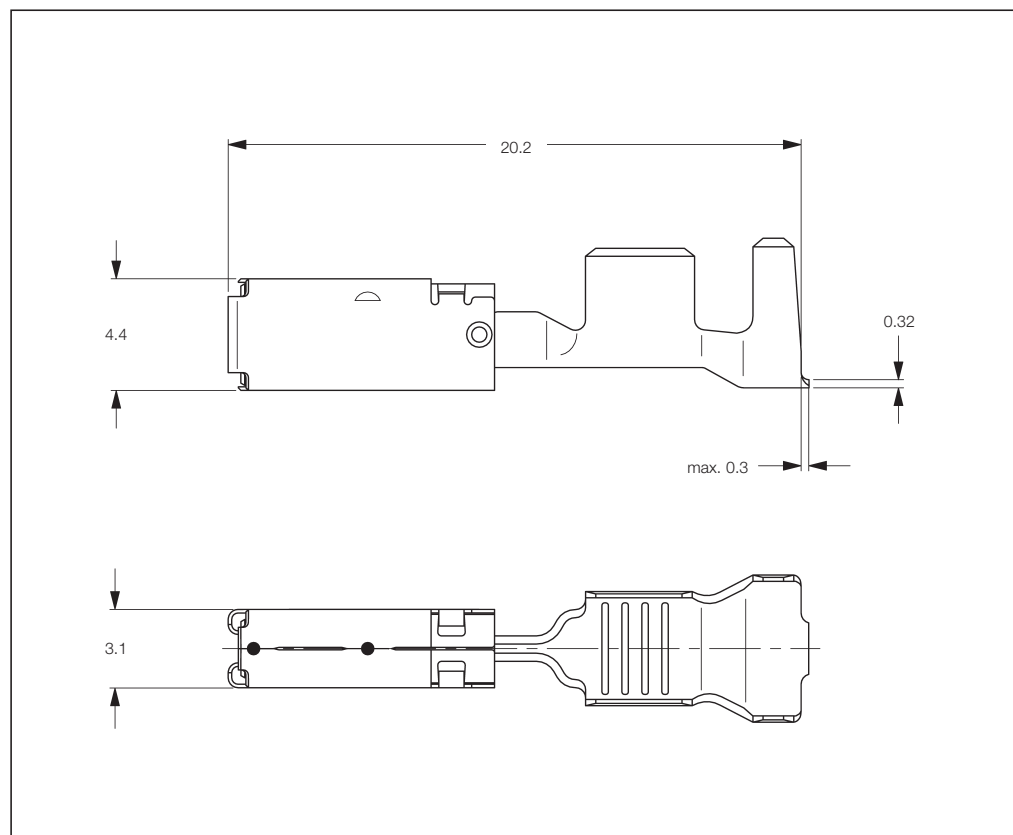
Max. 6 N

##### Unmating Force\*:

Max. 5 N

\*) Steel Tab, see Specifications

•) Mating Cycles are depending on various technical influences and must be clarified in each individual case.



##### Contact Resistance:

New State ≤ 2 mΩ

##### Mating Cycles:•

up to 20 cycles (tin plated)  
up to 50 cycles (silver plated)  
up to 100 cycles (gold plated)

##### Dimension of Male Contacts:

2.8 ±0.1 x 0.8 ±0.03 mm  
3.0 ±0.1 x 0.8 ±0.03 mm

##### Extraction Tool:

Extraction possible without tool

##### Product Specification:

108-18513

##### Application Specification:

114-18148

##### Product Group Drawing:

1719458

### Lanceless Receptacle Contacts

| Wire Size<br>Range<br>(mm <sup>2</sup> ) | Insulation Diameter<br>(mm) |         | Material<br>and Finish * | Part Numbers  |                     |                 |                     |            |           |
|------------------------------------------|-----------------------------|---------|--------------------------|---------------|---------------------|-----------------|---------------------|------------|-----------|
|                                          | FLK                         | FLR     |                          | Strip<br>Form | Package<br>Quantity | Loose-<br>Piece | Package<br>Quantity | Applicator | Hand Tool |
|                                          |                             |         |                          |               |                     |                 |                     |            |           |
| 0.2–0.5                                  | –                           | 1.2–1.4 | 1-xxx-1                  | 1355876       | 4,500               | –               | –                   | On request | –         |
| >0.5–1.0                                 | –                           | 1.4–2.1 | 1-xxx-1                  | 1355833       | 4,500               | –               | –                   | On request | –         |
| >1.0–2.5                                 | –                           | 2.2–3.0 | 1-xxx-1                  | 1355877       | 3,500               | –               | –                   | On request | –         |
| >2.5–4.0                                 | –                           | 3.0–3.7 | 1-xxx-1                  | 1355880       | 2,700               | –               | –                   | On request |           |

##### \*) Material and Finish:

1-xxx-1 = CuNiSi, pre-tin plated

### Receptacle Contacts

#### Technical Features

##### Contact Material:

CuNiSi  
Top Spring: Stainless Steel

##### Contact Finish:

Tin plated, selective silver plated,  
selective gold plated

##### Wire Size Range:

0.20–0.35 mm<sup>2</sup>, 0.5–1.0 mm<sup>2</sup>,  
>1.0–2.5 mm<sup>2</sup> (FLR Cable)

##### Current Carrying Capacity:

up to 34 Ampere  
(at 20 °C ambient temperature)

##### Temperature Range:

–40 °C ... +130 °C (tin plated)  
–40 °C ... +140 °C (silver plated)  
–40 °C ... +150 °C (gold plated)

##### Modular Dimensions (Centerline):

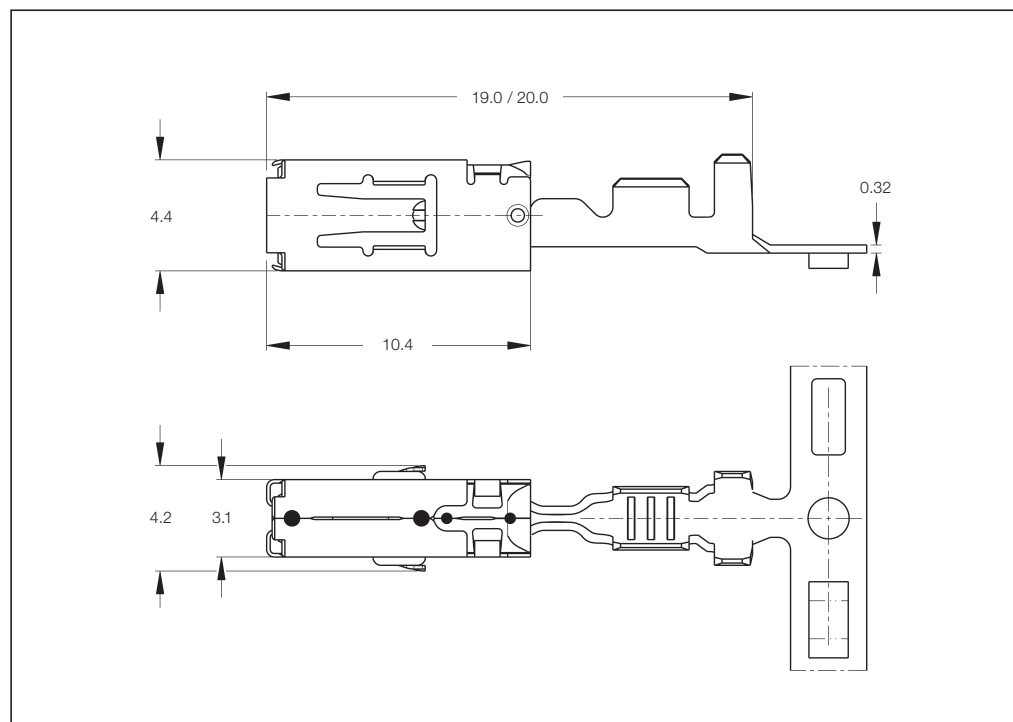
**0.35–2.5 mm<sup>2</sup> SRC:**  
– 5.0 x 5.5 mm  
– 5.0 x 5.0 mm (Staggered)

**0.35–2.5 mm<sup>2</sup> SWS:**  
– 6.0 x 6.0 mm  
– 5.0 x 5.5 mm (Staggered)

##### Mating Cycles:•

up to 10 cycles (tin plated)  
up to 50 cycles (silver plated)  
up to 100 cycles (gold plated)

- ) Mating Cycles are depending on various technical influences  
and must be clarified in each individual case.



##### Contact Resistance:

New State ≤ 2 mΩ

##### Mating Force: Max. 10 N

Unmating Force: Max. 7 N

##### Dimension of Male Contacts:

2.8<sup>±0.1</sup> x 0.8<sup>±0.03</sup> mm  
2.8<sup>±0.1</sup> x 0.6<sup>±0.03</sup> mm  
3.0<sup>±0.1</sup> x 0.8<sup>±0.03</sup> mm  
3.0<sup>±0.1</sup> x 0.6<sup>±0.03</sup> mm

##### Extraction Tool:

Part No. 1579007-1

##### Product Group Drawing:

1241437

##### Product Specification:

108-18717

##### Application Specification:

114-18387

#### Standard Receptacle Contacts (SRC)

| Wire Size Range<br>(mm <sup>2</sup> ) | Insulation Diameter<br>(mm) |         | Material<br>and Finish* | Part Numbers |                  |             |                  |             | Hand Tool |
|---------------------------------------|-----------------------------|---------|-------------------------|--------------|------------------|-------------|------------------|-------------|-----------|
|                                       | FLK                         | FLR     |                         | Strip Form   | Package Quantity | Loose-Piece | Package Quantity | Applicator* |           |
| 0.20–0.35                             | –                           | 1.1–1.4 | -1 / -2                 | 1241386      | 4,000            | 1241387     | 500              | x-1528196-x | 2063531-1 |
| 0.5–1.0                               | –                           | 1.4–2.1 | -1 / -2                 | 1241388      | 3,500            | 1241389     | 500              | x-1528097-x |           |
| >1.0–2.5                              | –                           | 2.2–3.0 | -1 / -2                 | 1241390      | 3,500            | 1241391     | 500              | x-1528001-x |           |

#### Receptacle Contacts Single Wire Sealing System (SWS)

| Wire Size Range<br>(mm <sup>2</sup> ) | Insulation Diameter<br>(mm) |         | Material<br>and Finish* | Part Numbers |                  |             |                  |             | Hand Tool |
|---------------------------------------|-----------------------------|---------|-------------------------|--------------|------------------|-------------|------------------|-------------|-----------|
|                                       | FLK                         | FLR     |                         | Strip Form   | Package Quantity | Loose-Piece | Package Quantity | Applicator* |           |
| 0.20–0.35                             | 1.3–1.5                     | 1.1–1.4 | -1 / -2 / -3            | 1241392      | 3,500            | 1241393     | 500              | x-1528001-x | 2063526-1 |
| 0.5–1.0                               | 2.0–2.7                     | 1.4–2.1 | -1 / -2 / -3            | 1241394      | 3,500            | 1241395     | 500              | x-1528101-x |           |
| >1.0–2.5                              | 2.2–3.0                     | 2.2–3.0 | -1 / -2 / -3            | 1241396      | 3,500            | 1241397     | 500              | x-1528026-x |           |

##### \* Material and Finish:

xxx-1 = CuNiSi, pre-tin plated  
xxx-2 = CuNiSi, selective gold plated  
xxx-3 = CuNiSi, selective silver plated

- ) The pre- and suffix for the applicators depends on the applied termination equipment.

### Tab Contacts

**Tabs 2.8 x 0.8 mm  
with Steel Top Spring,  
Mates with AMP MCP 2.8  
Contact System**

**Extraction Tool:**

Part No. **1-1579007-6**

**Product Group Drawing:**

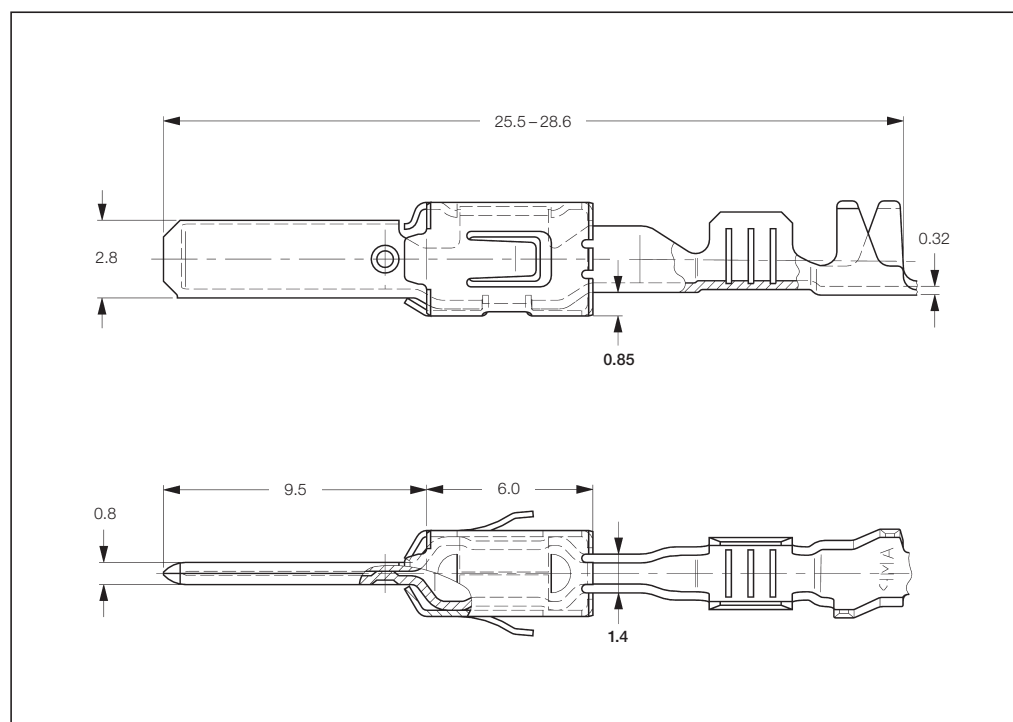
1355052

**Product Specification:**

108-18063

**Application Specification:**

114-18051



### Standard Tab Contacts

| Wire Size<br>Range<br>(mm <sup>2</sup> ) | Insulation Diameter |             | Material<br>and Finish *                                     | Part Numbers  |                     |                 |                     |              | Hand<br>Tool<br>Complete |
|------------------------------------------|---------------------|-------------|--------------------------------------------------------------|---------------|---------------------|-----------------|---------------------|--------------|--------------------------|
|                                          | FLK<br>(mm)         | FLR<br>(mm) |                                                              | Strip<br>Form | Package<br>Quantity | Loose-<br>Piece | Package<br>Quantity | Applicator * |                          |
| 0.2-0.5                                  | –                   | 1.15-1.60   | 1-xxx-1 / 1-xxx-2 / 1-xxx-3 /<br>2-xxx-1 / 2-xxx-2 / 2-xxx-3 | 963860        | 4,000               | 963861          | 500                 | x-1528859-x  | 734538-1                 |
| 0.5-1.0                                  | –                   | 1.4-2.0     | 1-xxx-1 / 1-xxx-2 / 1-xxx-3 /<br>2-xxx-1 / 2-xxx-2 / 2-xxx-3 | 962841        | 4,000               | 963745          | 500                 | x-1528315-x  | 2063490-1                |
| 1.5-2.5                                  | –                   | 2.1-2.9     | 1-xxx-1 / 1-xxx-2 / 1-xxx-3 /<br>2-xxx-1 / 2-xxx-2 / 2-xxx-3 | 962842        | 3,500               | 963746          | 500                 | x-1528305-x  | 2063490-1                |
| 4.0                                      | –                   | 3.4-3.7     | 1-xxx-1 / 1-xxx-2 /<br>2-xxx-1 / 2-xxx-2 / 3-xxx-1           | 968946        | 2,700               | 968965          | 500                 | x-1528430-x  | –                        |

### Tab Contacts with Single Wire Sealing System

| Wire Size<br>Range<br>(mm <sup>2</sup> ) | Insulation Diameter |             | Material<br>and Finish *                                     | Part Numbers  |                     |                 |                     |              | Hand<br>Tool<br>Complete |
|------------------------------------------|---------------------|-------------|--------------------------------------------------------------|---------------|---------------------|-----------------|---------------------|--------------|--------------------------|
|                                          | FLK<br>(mm)         | FLR<br>(mm) |                                                              | Strip<br>Form | Package<br>Quantity | Loose-<br>Piece | Package<br>Quantity | Applicator * |                          |
| 0.2-0.5                                  | –                   | max. 2.1    | 1-xxx-1 / 1-xxx-3                                            | 965982        | 3,500               | 965983          | 500                 | x-1528406-x  | 734538-1                 |
| 0.5-1.0                                  | –                   | max. 2.1    | 1-xxx-1 / 1-xxx-2 / 1-xxx-3 /<br>2-xxx-1 / 2-xxx-2 / 2-xxx-3 | 962915        | 3,500               | 963748          | 500                 | x-1528452-x  | 2063490-1                |
| 1.5-2.5                                  | –                   | max. 3.0    | 1-xxx-1 / 1-xxx-2 / 1-xxx-3 /<br>2-xxx-1 / 2-xxx-2 / 2-xxx-3 | 962916        | 3,500               | 963749          | 500                 | x-1528316-x  | 2063490-1                |
| 4.0                                      | –                   | max. 3.7    | 1-xxx-1 / 1-xxx-2 /<br>2-xxx-1 / 2-xxx-2 / 3-xxx-1           | 968947        | 3,500               | 968966          | 500                 | x-1528067-x  | –                        |

**\*) Material and Finish:**

1-xxx-1 = CuSn, pre-tin plated  
1-xxx-2 = CuSn, selective silver plated  
1-xxx-3 = CuSn, selective gold plated

2-xxx-1 = CuFe, pre-tin plated  
2-xxx-2 = CuFe, selective silver plated  
2-xxx-3 = CuFe, selective gold plated  
3-xxx-1 = CuSn, pre-tin plated

\*) The pre- and suffix for the applicators depends on the applied termination equipment.

### Tab Contacts

**Tabs 2.8 x 0.8 mm,  
with Modified  
Steel Top Spring,  
Mates with AMP MCP 2.8/  
2.8K Contact System**

**Extraction Tool:**

Part No. **1-1579007-6**

**Product Group Drawing:**

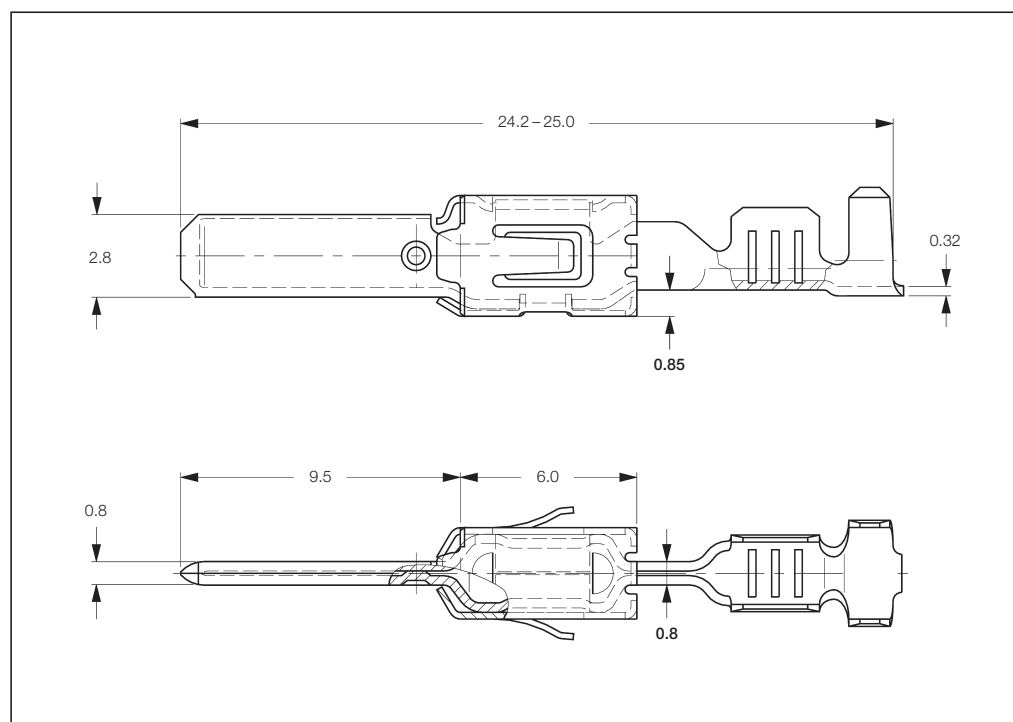
1355364

**Product Specification:**

108-18063

**Application Specification:**

114-18051



### Standard Tab Contacts with Modified Spring (STC)

| Wire Size<br>Range<br>(mm <sup>2</sup> ) | Insulation Diameter<br>(mm) |           | Material<br>and Finish *    | Part Numbers  |                     |                 |                     |              | Hand Tool |
|------------------------------------------|-----------------------------|-----------|-----------------------------|---------------|---------------------|-----------------|---------------------|--------------|-----------|
|                                          | FLK                         | FLR       |                             | Strip<br>Form | Package<br>Quantity | Loose-<br>Piece | Package<br>Quantity | Applicator * |           |
| 0.2-0.5                                  | –                           | 1.15-1.60 | 1-xxx-3 / 2-xxx-1           | 964292        | 4,000               | 964291          | 500                 | x-1528004-x  | 2063533-1 |
| 0.5-1.0                                  | –                           | 1.4-2.1   | 1-xxx-3 / 2-xxx-1 / 2-xxx-2 | 964294        | 4,000               | 964293          | 500                 | x-1528097-x  |           |
| 1.25-2.50                                | –                           | 2.2-3.0   | 1-xxx-3 / 2-xxx-1 / 2-xxx-2 | 964296        | 3,300               | 964295          | 500                 | x-1528001-x  |           |

### Tab Contacts Single Wire Sealing System with Modified Spring (SWS)

| Wire Size<br>Range<br>(mm <sup>2</sup> ) | Insulation Diameter<br>(mm) |           | Material<br>and Finish *    | Part Numbers  |                     |                 |                     |              | Hand Tool |
|------------------------------------------|-----------------------------|-----------|-----------------------------|---------------|---------------------|-----------------|---------------------|--------------|-----------|
|                                          | FLK                         | FLR       |                             | Strip<br>Form | Package<br>Quantity | Loose-<br>Piece | Package<br>Quantity | Applicator * |           |
| 0.2-0.5                                  | –                           | 1.15-1.60 | 1-xxx-3 / 2-xxx-1           | 964298        | 3,500               | 964297          | 500                 | x-1528025-x  | 2063435-1 |
| 0.5-1.0                                  | –                           | 1.4-2.1   | 1-xxx-3 / 2-xxx-1 / 4-xxx-1 | 964300        | 3,500               | 964299          | 500                 | x-1528101-x  |           |
| 1.25-2.50                                | –                           | 2.2-3.0   | 1-xxx-3 / 2-xxx-1           | 964302        | 3,500               | 964301          | 500                 | x-1528026-x  |           |

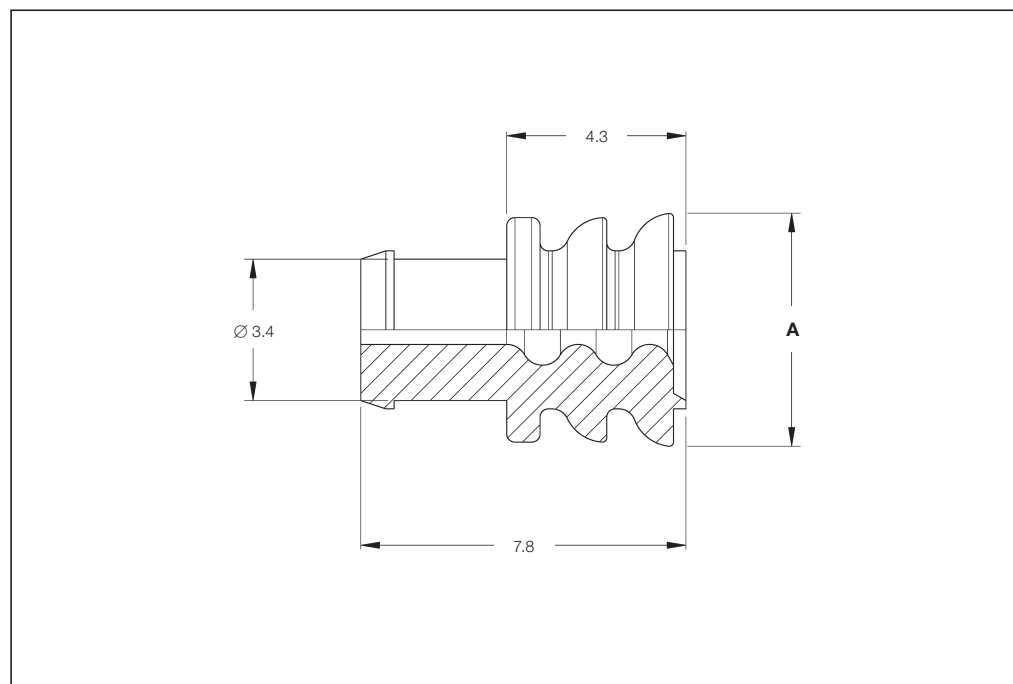
**\*) Material and Finish:**

- 1-xxx-3 = CuSn, selective gold plated
- 2-xxx-1 = CuFe, pre-tin plated
- 2-xxx-2 = CuFe, pre-silver plated
- 4-xxx-1 = CuNi, plain

♦) The pre- and suffix for the applicators depends on the applied termination equipment.

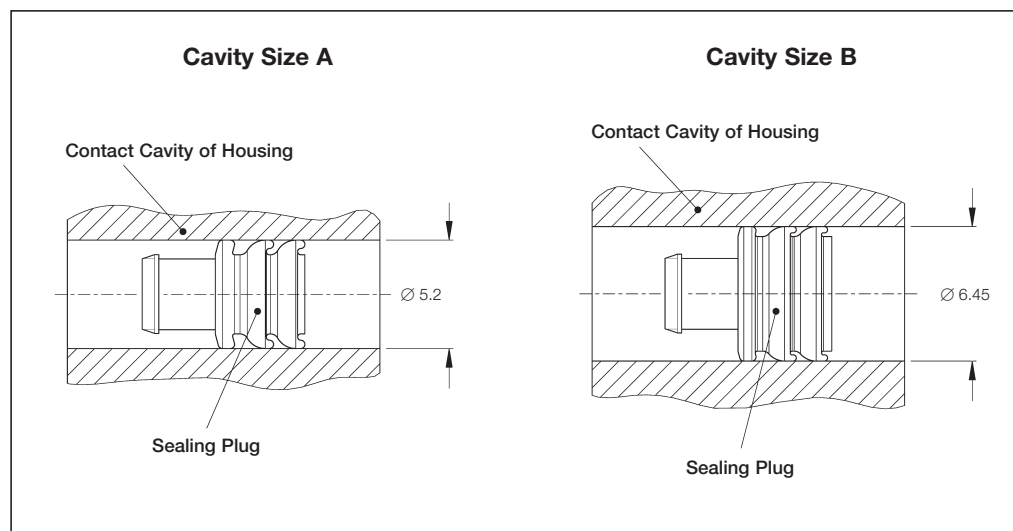
Single Wire Seals and Sealing Plugs

**Single Wire Seals  
and Sealing Plugs  
for AMP MCP 2.8  
Contact System  
(Two Cavity Diameters)**



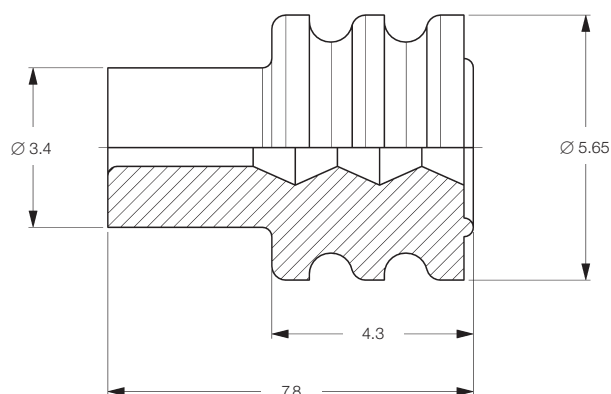
| Cavity Size | Function Relevant Insulation Diameter (mm) | (Example for Wire Size, FLR Insulation according ISO 6722 (mm <sup>2</sup> )) | Color   | Diameter A (mm) | Part Number | Package Quantity |
|-------------|--------------------------------------------|-------------------------------------------------------------------------------|---------|-----------------|-------------|------------------|
| A           | 1.2–2.1                                    | (0.35–1.00)                                                                   | Blue    | 5.6             | 828904-1    | 1,000            |
|             |                                            |                                                                               |         |                 | 828904-2    | 10,000           |
| A           | 2.2–3.0                                    | (1.5–2.5)                                                                     | White   | 5.6             | 828905-1    | 10,000           |
| B           | 3.0–3.7                                    | (2.5–4.0)                                                                     | Green   | 7.2             | 828985-1    | 5,000            |
| A           | Sealing Plug                               |                                                                               | Natural | 5.6             | 828922-1    | 10,000           |
| B           | Sealing Plug                               |                                                                               | Brown   | 7.2             | 828986-1    | 5,000            |

For correct use see Application Specification 114-18148.

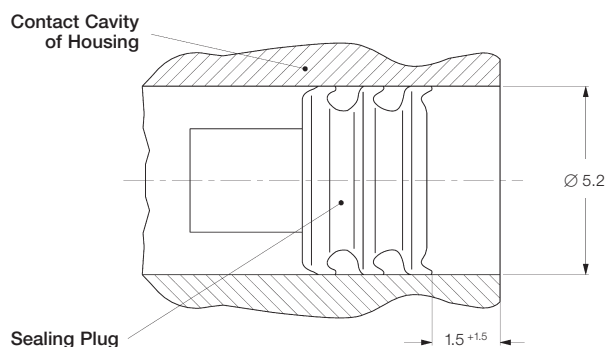


Single Wire Seals and Sealing Plugs

**Single Wire Seals and Sealing Plugs for AMP MCP 2.8K Contact System (Cavity Diameter 5.2 mm)**



| Wire Size Range (mm <sup>2</sup> ) |           | Insulation Diameter (mm) | Color     | Part Number | Package Quantity |
|------------------------------------|-----------|--------------------------|-----------|-------------|------------------|
| FLK                                | FLR       |                          |           |             |                  |
| 0.35                               | 0.35–1.00 | 1.2–2.1                  | Blue      | 963294-1    | 5,000            |
| 0.5–1.0                            | 1.5       | 2.0–2.7                  | Red-Brown | 963293-1    | 5,000            |
| 1.5                                | 2.5       | 2.7–3.0                  | Yellow    | 963292-1    | 5,000            |
| –                                  | –         | Sealing Plug             | Natural   | 828922-1    | 10,000           |
|                                    |           |                          | Green     | 828922-2    | 10,000           |



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**Engineering Notes**

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### Receptacle Contacts

#### Technical Features

##### Contact Material:

CuNiSi

Top Spring: Stainless Steel

##### Contact Finish:

Tin plated, selective silver plated

##### Wire Size Range:

0.2–0.5 mm<sup>2</sup>, 0.5–1.0 mm<sup>2</sup>,  
>1.0–2.5 mm<sup>2</sup>, >2.5–4.0 mm<sup>2</sup>,  
>4.0–6.0 mm<sup>2</sup>

##### Current Carrying Capacity:

up to 40 Ampere  
(at 20 °C ambient temperature)

##### Temperature Range:

–40 °C ... +130 °C (tin plated)  
–40 °C ... +140 °C (silver plated)  
–40 °C ... +140 °C (tin-silver)

##### Modular Dimensions (Centerline):

**0.2–6.0 mm<sup>2</sup> SRC:**

– 6.0 x 8.0 mm

**0.2–4.0 mm<sup>2</sup> SWS:**

– 9.0 x 9.0 mm

– 8.0 x 9.0 mm (Staggered)

##### Dimension of Male Contacts:

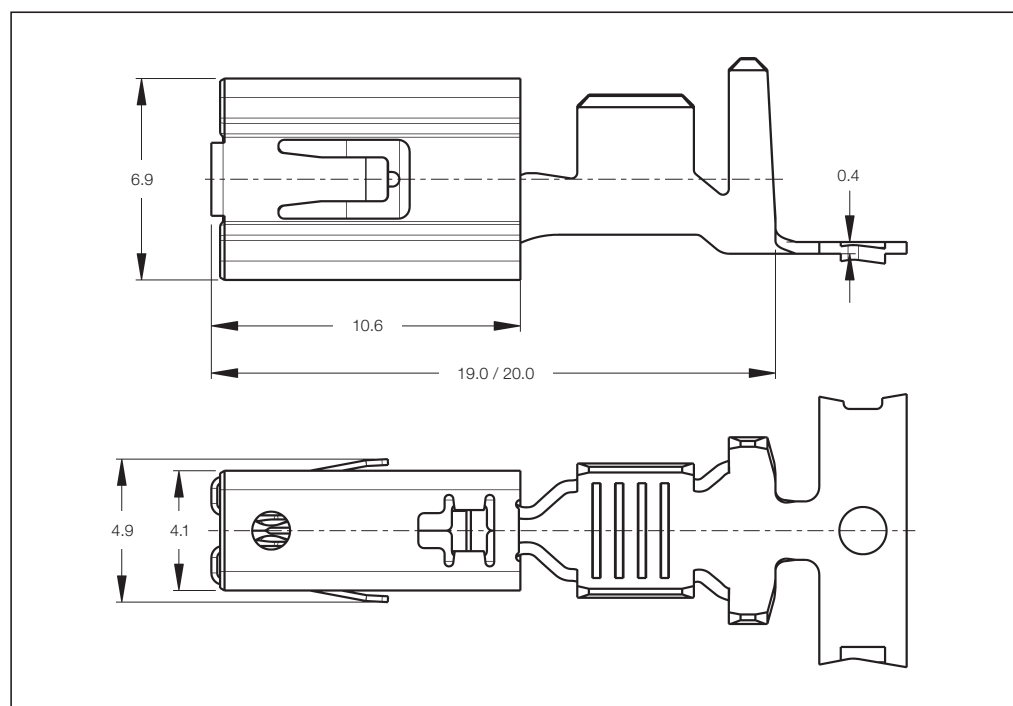
4.8 ±0.1 x 0.8 ±0.03 mm

5.8 ±0.1 x 0.8 ±0.03 mm

6.3 ±0.1 x 0.8 ±0.03 mm

##### Contact Resistance:

New State ≤ 2 mΩ



##### Mating Cycles:●

up to 10 cycles (tin plated)  
up to 10 cycles (silver plated)

**Mating Force:** max. 16 N

**Unmating Force:** max. 11 N

**Extraction Tool:**

Part No. **1-1579007-3**

**Product Group Drawing:**

1241438

**Product Specification:**

108-18718

**Application Specification:**

114-18388

● Mating Cycles are depending on various technical influences and must be clarified in each individual case.

#### Standard Receptacle Contacts (SRC)

| Wire Size<br>Range<br>(mm <sup>2</sup> ) | Insulation Diameter<br>(mm) |         | Material<br>and Finish * | Part Numbers  |                     |                 |                     |              | Hand Tool |
|------------------------------------------|-----------------------------|---------|--------------------------|---------------|---------------------|-----------------|---------------------|--------------|-----------|
|                                          | FLK                         | FLR     |                          | Strip<br>Form | Package<br>Quantity | Loose-<br>Piece | Package<br>Quantity | Applicator * |           |
|                                          |                             |         |                          |               |                     |                 |                     |              |           |
| 0.2–0.5                                  | –                           | 1.1–1.6 | -1                       | 1241400       | 1,800               | 1241401         | 500                 | x-1530002-x  | 2063567-1 |
| 0.5–1.0                                  | –                           | 1.4–2.1 | -1 / -3                  | 1241402       | 1,800               | 1241403         | 500                 | x-1528206-x  |           |
| >1.0–2.5                                 | –                           | 2.2–3.0 | -1 / -3                  | 1241404       | 2,000               | 1241405         | 500                 | x-1528095-x  |           |
| >2.5–4.0                                 | 3.3–4.5                     | –       | -1 / -3                  | 1241406       | 2,000               | 1241407         | 500                 | x-1528298-x  | 2119159-1 |
| >4.0–6.0                                 | –                           | 3.4–4.3 | -1                       | 1241408       | 1,800               | 1241409         | 500                 | x-1528895-x  |           |

#### Receptacle Contacts Single Wire Sealing System (SWS)

| Wire Size<br>Range<br>(mm <sup>2</sup> ) | Insulation Diameter<br>(mm) |         | Material<br>and Finish * | Part Numbers  |                     |                 |                     |              | Hand Tool |
|------------------------------------------|-----------------------------|---------|--------------------------|---------------|---------------------|-----------------|---------------------|--------------|-----------|
|                                          | FLK                         | FLR     |                          | Strip<br>Form | Package<br>Quantity | Loose-<br>Piece | Package<br>Quantity | Applicator * |           |
|                                          |                             |         |                          |               |                     |                 |                     |              |           |
| 0.2–0.5                                  | 1.3–2.3                     | 1.1–1.6 | -1                       | 1241410       | 1,500               | 1241411         | 500                 | x-1528513-x  | 2063625-1 |
| 0.5–1.0                                  | 2.0–2.7                     | 1.4–2.1 | -1 / -3                  | 1241412       | 1,500               | 1241413         | 500                 | x-1528342-x  |           |
| >1.0–2.5                                 | 2.7–3.7                     | 2.2–3.0 | -1 / -3                  | 1241414       | 1,500               | 1241415         | 500                 | x-1528231-x  | 2063626-1 |
| >2.5–4.0                                 | 4.1–4.5                     | 3.4–3.7 | -1 / -3                  | 1241416       | 1,500               | 1241417         | 500                 | x-1530003-x  |           |
| >4.0–6.0                                 | –                           | 4.0–4.5 | -4                       | 1241418       | 1,500               | 1241419         | 500                 | x-1528947-x  | 2063627-1 |

\*) **Material and Finish:**  
xxx-1 = CuNiSi, pre-tin plated  
xxx-3 = CuNiSi, selective silver plated  
xxx-4 = CuNiSi, tin-silver pre-plated

\*) The pre- and suffix for the applicators depends on the applied termination equipment.

### Tab Contacts

**Tabs 5.8 x 0.8 mm  
with Steel Top Spring,  
Mates with  
AMP MCP 6.3/4.8K  
Contact System**

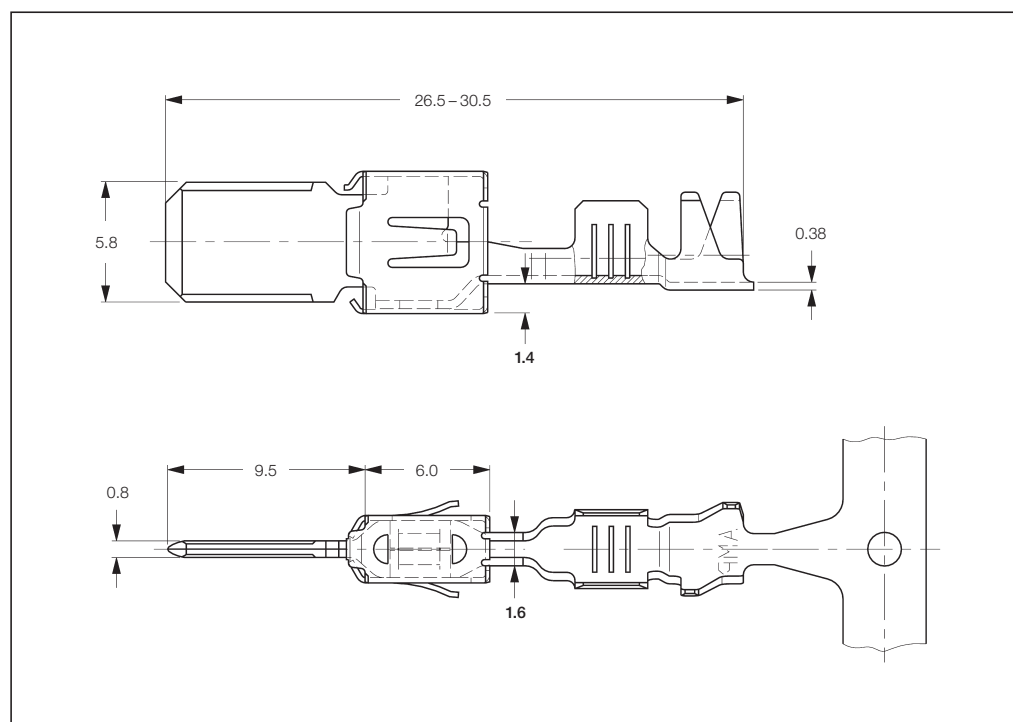
**Extraction Tool:**

Part No. **1-1579007-6**

**Product Group Drawing:**  
1241895

**Product Specification:**  
108-18064

**Application Specification:**  
114-18052



### Standard Tab Contacts (STC)

| Wire Size<br>Range<br>(mm <sup>2</sup> ) | Insulation Diameter<br>(mm) |           | Material<br>and Finish*                  | Part Numbers  |                     |                 |                     | Applicator | Hand Tool<br>539635-1<br>with Die Set |
|------------------------------------------|-----------------------------|-----------|------------------------------------------|---------------|---------------------|-----------------|---------------------|------------|---------------------------------------|
|                                          | FLK                         | FLR       |                                          | Strip<br>Form | Package<br>Quantity | Loose-<br>Piece | Package<br>Quantity |            |                                       |
| 1.5-2.5                                  | 2.4-3.7                     | –         | 1-xxx-1 / 1-xxx-2 /<br>2-xxx-1 / 2-xxx-2 | 962845        | 1,700               | 963740          | 500                 | On request |                                       |
| 3.0-4.0                                  | 3.3-4.5                     | –         | 1-xxx-1 / 1-xxx-2 /<br>2-xxx-1 / 2-xxx-2 | 962846        | 1,800               | 963741          | 500                 | On request | 539759-2                              |
| 0.5-1.0                                  | –                           | 1.4-2.1   | 1-xxx-1 / 1-xxx-2 /<br>2-xxx-1 / 2-xxx-2 | 963734        | 1,700               | 963737          | 500                 | On request |                                       |
| 1.5-2.5                                  | –                           | 2.2-3.0   | 1-xxx-1 / 1-xxx-2 /<br>2-xxx-1 / 2-xxx-2 | 963735        | 1,800               | 963738          | 500                 | On request | 734688-1**<br>539623-1**<br>for 2.5   |
| >2.5-4.0                                 | –                           | 2.7-3.7   | 1-xxx-1 / 1-xxx-2 /<br>2-xxx-1 / 2-xxx-2 | 963736        | 1,800               | 963739          | 500                 | On request | 539623-1**                            |
| 0.2-0.5                                  | –                           | 1.15-1.60 | 1-xxx-1 / 2-xxx-1                        | 965984        | 2,000               | 965985          | 500                 | –          | –                                     |
| 4.0-6.0                                  | 4.0-5.2                     | –         | 1-xxx-1 / 2-xxx-1                        | 968050        | 1,500               | 968051          | 500                 | On request | –                                     |

### Tab Contacts Single Wire Sealing System (SWS)

| Wire Size<br>Range<br>(mm <sup>2</sup> ) | Insulation Diameter<br>(mm) |         | Material<br>and Finish*                  | Part Numbers  |                     |                 |                     | Applicator | Hand Tool<br>539635-1<br>with Die Set |
|------------------------------------------|-----------------------------|---------|------------------------------------------|---------------|---------------------|-----------------|---------------------|------------|---------------------------------------|
|                                          | FLK                         | FLR     |                                          | Strip<br>Form | Package<br>Quantity | Loose-<br>Piece | Package<br>Quantity |            |                                       |
| 0.5-1.0                                  | –                           | 1.4-2.1 | 1-xxx-1 / 1-xxx-2 /<br>2-xxx-1 / 2-xxx-2 | 962917        | 1,500               | 963742          | 500                 | On request |                                       |
| 1.5-2.5                                  | –                           | 2.2-3.0 | 1-xxx-1 / 1-xxx-2 /<br>2-xxx-1 / 2-xxx-2 | 962918        | 1,500               | 963743          | 500                 | On request | 539757-2                              |
| >2.5-4.0                                 | –                           | 2.7-3.7 | 1-xxx-1 / 1-xxx-2 /<br>2-xxx-1 / 2-xxx-2 | 962919        | 1,500               | 963744          | 500                 | On request |                                       |

**\*) Material and Finish:**

1-xxx-1 = CuSn, pre-tin plated

1-xxx-2 = CuSn, selective silver plated

2-xxx-1 = CuFe, pre-tin plated

2-xxx-2 = CuFe, selective silver plated

**Remarks:**

**\*\*) Hand Tool complete**

## Tab Contacts

**Tabs 5.8 x 0.8 mm,  
with Modified  
Steel Top Spring,  
Mates with  
AMP MCP 6.3/4.8K  
Contact System**

**Extraction Tool:**

Part No. **1-1579007-6**

**Product Group Drawing:**

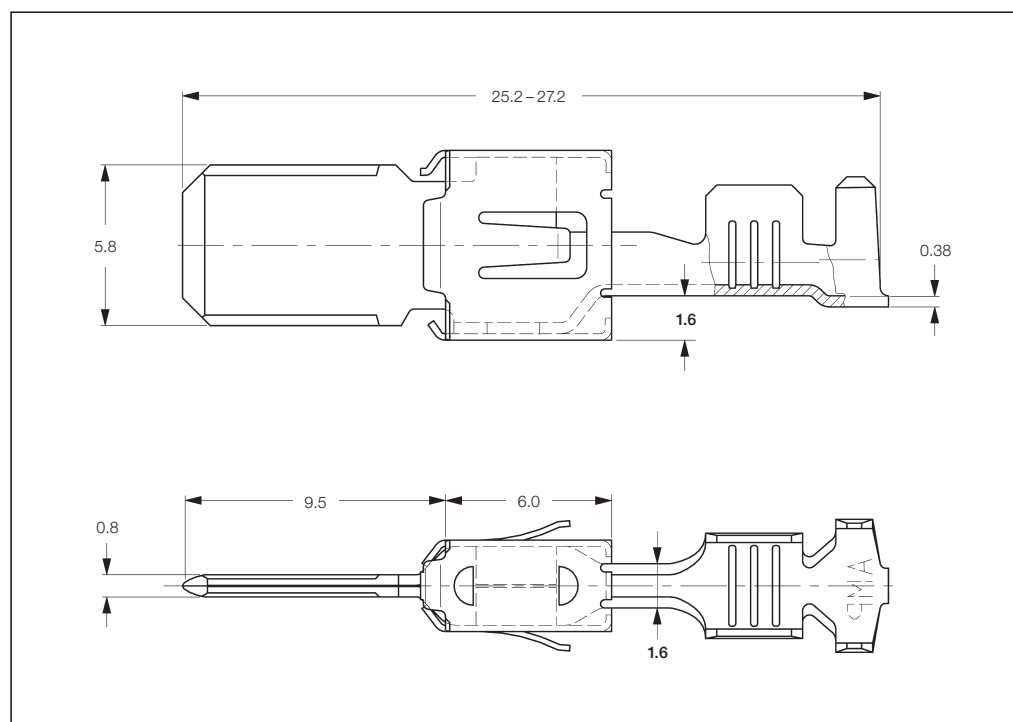
1394011

**Product Specification:**

108-18064

**Application Specification:**

114-18052



### Standard Tab Contacts with Modified Spring (STC)

| Wire Size<br>Range<br>(mm <sup>2</sup> ) | Insulation Diameter<br>(mm) |           | Material<br>and Finish* | Part Numbers  |                     |                 |                     |             | Hand Tool |
|------------------------------------------|-----------------------------|-----------|-------------------------|---------------|---------------------|-----------------|---------------------|-------------|-----------|
|                                          | FLK                         | FLR       |                         | Strip<br>Form | Package<br>Quantity | Loose-<br>Piece | Package<br>Quantity | Applicator* |           |
| 0.2–0.5                                  | –                           | 1.15–1.60 | -1                      | 969007        | 1,800               | 969008          | 500                 | x-1528296-x | 2063536-1 |
| 0.5–1.0                                  | –                           | 1.4–2.1   | -1                      | 964304        | 1,800               | 964303          | 500                 | x-1528093-x |           |
| > 1.0–2.5                                | –                           | 2.2–3.0   | -1 / -3                 | 964306        | 1,900               | 964305          | 500                 | x-1528094-x |           |
| > 2.5–4.0                                | 3.3–4.5                     | 3.3–4.5   | -1                      | 964308        | 1,800               | 964307          | 500                 | x-1530004-x |           |

### Tab Contacts Single Wire Sealing System with Modified Spring (SWS)

| Wire Size<br>Range<br>(mm <sup>2</sup> ) | Insulation Diameter<br>(mm) |         | Material<br>and Finish* | Part Numbers  |                     |                 |                     |             | Hand Tool |
|------------------------------------------|-----------------------------|---------|-------------------------|---------------|---------------------|-----------------|---------------------|-------------|-----------|
|                                          | FLK                         | FLR     |                         | Strip<br>Form | Package<br>Quantity | Loose-<br>Piece | Package<br>Quantity | Applicator* |           |
| 0.5–1.0                                  | –                           | 1.4–2.1 | -1                      | 964310        | 1,500               | 964309          | 500                 | x-1528437-x | 2063560-1 |
| > 1.0–2.5                                | –                           | 2.2–3.0 | -1                      | 964312        | 1,400               | 964311          | 500                 | x-1528444-x |           |
| > 2.5–4.0                                | –                           | 2.7–3.7 | -1                      | 964314        | 1,300               | 964313          | 500                 | x-1528439-x |           |

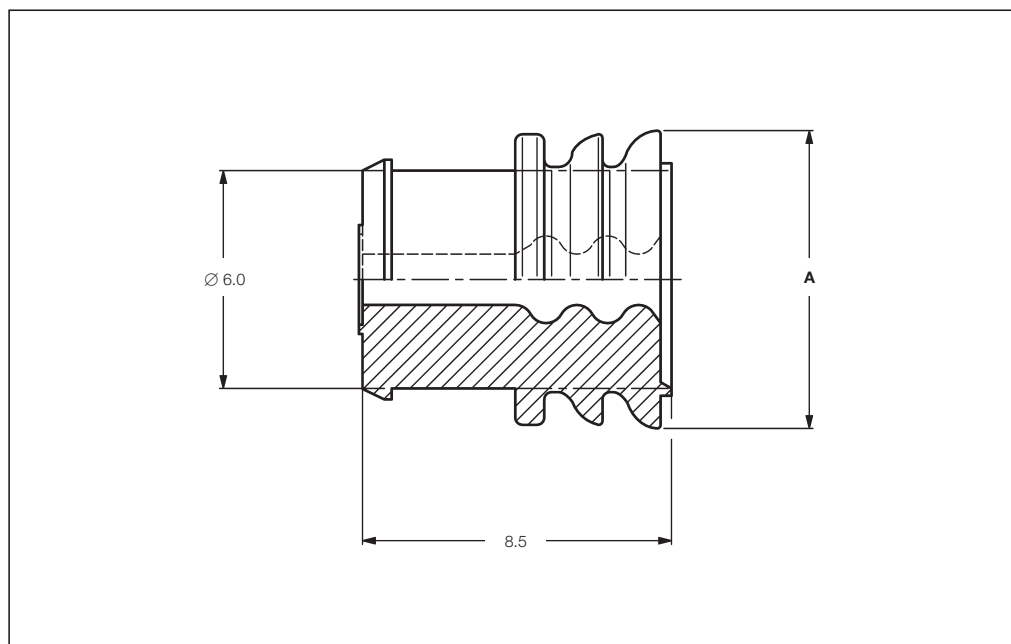
**\*) Material and Finish:**

xxx-1 = CuFe, pre-tin plated  
xxx-3 = CuSn, selective gold plated

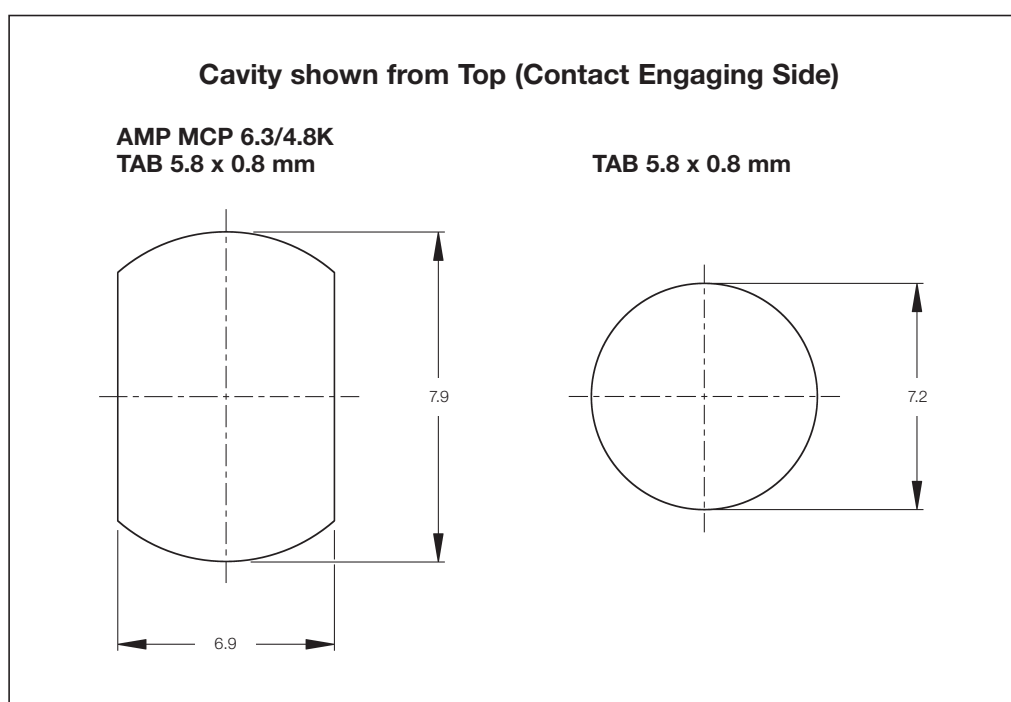
\*) The pre- and suffix for the applicators depends on the applied termination equipment.

Single Wire Seals and Sealing Plugs

**Single Wire Seals  
and Sealing Plugs  
for AMP MCP 6.3/4.8K  
Contact System**  
(Cavity Diameter see below)

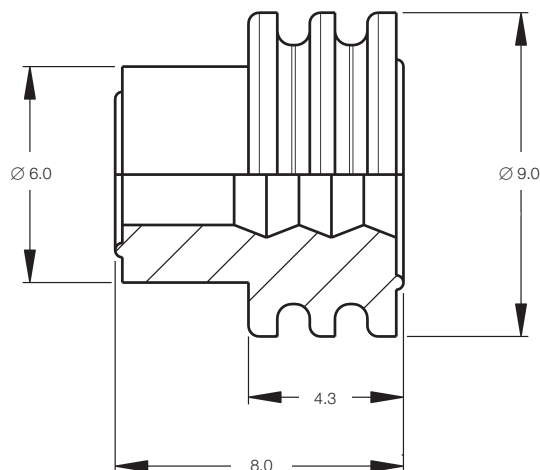


| Insulation Diameter (mm) | Color  | Diameter A (mm) | Part Number | Package Quantity |
|--------------------------|--------|-----------------|-------------|------------------|
| 1.4–2.1                  | Blue   | 8.2             | 963243-1    | 2,500            |
| 2.2–3.0                  | White  | 8.2             | 963244-1    | 2,500            |
| 3.4–3.7                  | Yellow | 8.2             | 963245-1    | 2,500            |
| Sealing Plug             | Black  | 8.1             | 100132-1    | 1,000            |



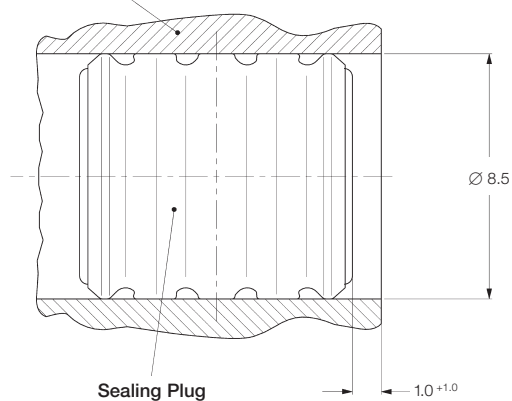
# Single Wire Seals and Sealing Plugs

## Single Wire Seals and Sealing Plugs for AMP MCP 6.3/4.8K Contact System (Cavity Diameter 8.5 mm)



| Insulation Diameter (mm) | Color       | Part Number | Package Quantity |
|--------------------------|-------------|-------------|------------------|
| 2.0–2.7                  | White       | 1394511-1   | 10,000           |
| 3.4–3.7                  | Blue        | 1394512-1   | 10,000           |
| 4.0–4.5                  | Green       | 1719043-1   | 10,000           |
| Sealing Plug             | Transparent | 967652-1    | 20,000           |

Contact Cavity of Housing for Single Wire Seals and Sealing Plug



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Engineering Notes

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## Lanceless Receptacle Contacts

### Technical Features

#### Material:

Contact: CuNiSi  
Tabs: CuSn4, CuFe2  
Top Spring: Stainless Steel

#### Contact Finish:

Tin plated

#### Wire Size Range:

6.0–10.0 mm<sup>2</sup>

#### Current Carrying Capacity:

up to 80 Ampere  
(at 20 °C ambient temperature)

#### Temperature Range:

–40 °C ... +130 °C (tin plated)

#### Mating Cycles:●

up to 10 cycles (tin plated)

#### Modular Dimensions (Centerline):

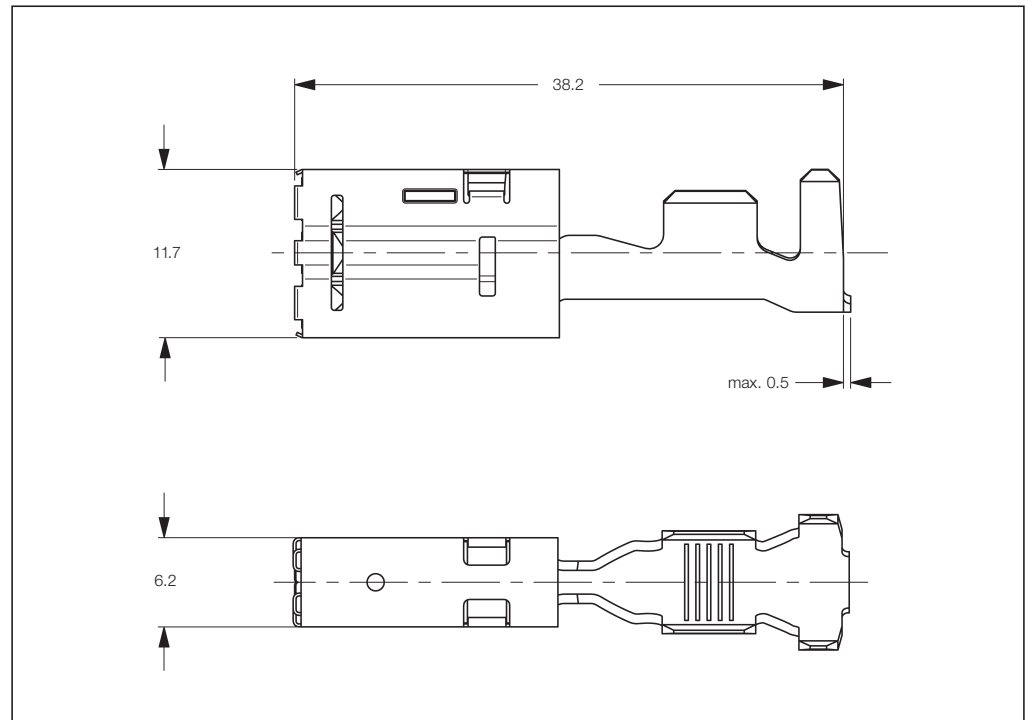
**6.0–10.0 mm<sup>2</sup> SRC:**  
– 12.7 x 9.5 mm  
– 12.7 x 8.5 mm (Staggered)

#### Contact Resistance:

New State ≤4 mΩ

#### Extraction Tool:

Extraction possible without tool



#### Mating Force:

Max. 35 N

#### Unmating Force:

Max. 15 N

#### Product Specification:

108-18630

#### Application Specification:

114-18269

●) Mating Cycles are depending on various technical influences and must be clarified in each individual case.

### Lanceless Receptacle Contacts

| Wire Size<br>Range<br>(mm²) | Insulation Diameter<br>(mm) |     | Material<br>and Finish * | Part Numbers  |                     |                 |                     |            |                                         |
|-----------------------------|-----------------------------|-----|--------------------------|---------------|---------------------|-----------------|---------------------|------------|-----------------------------------------|
|                             | FLK                         | FLR |                          | Strip<br>Form | Package<br>Quantity | Loose-<br>Piece | Package<br>Quantity | Applicator | Hand Tool<br>539783-1<br>with Die Set   |
|                             |                             |     |                          |               |                     |                 |                     |            |                                         |
| 6.0–10.0                    | 4.6–6.6                     | –   | 1-xxx-1                  | 1355849       | 600                 | –               | –                   | On request | 539783-5 for 6 mm<br>539783-6 for 10 mm |

#### \*) Material and Finish:

1-xxx-1 = CuNiSi, pre-tin plated

### Receptacle Contacts

#### Technical Features

##### Material:

Contact: CuNiSi  
Tabs: CuSn4, CuFe2  
Top Spring: Stainless Steel

##### Contact Finish:

Tin plated,  
selective silver plated

##### Wire Size Range:

6.0–10.0 mm<sup>2</sup>, >10.0–16.0 mm<sup>2</sup>

##### Current Carrying Capacity:

up to 100 Ampere  
(at 20 °C ambient temperature)

##### Temperature Range:

–40 °C ... +130 °C (tin plated)  
–40 °C ... +140 °C (silver plated)

##### Mating Cycles:●

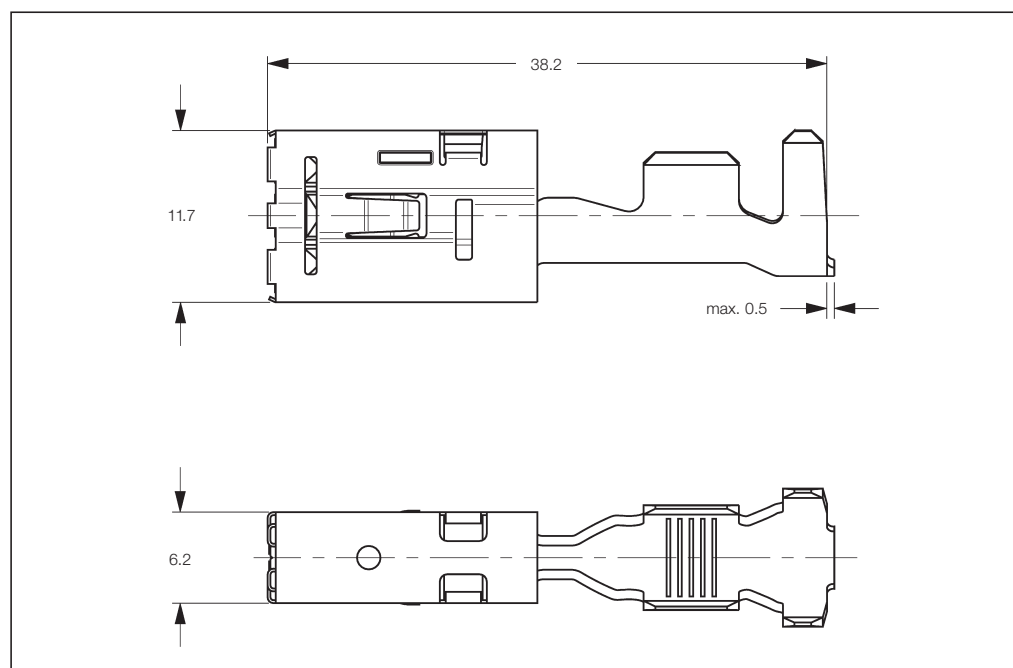
up to 10 cycles (tin plated)  
up to 50 cycles (silver plated)

##### Modular Dimensions (Centerline):

**6.0–10.0 mm<sup>2</sup> SRC:**  
– 12.7 x 9.5 mm  
– 12.7 x 8.5 mm (Staggered)

**10.0–16.0 mm<sup>2</sup> SRC:**  
– 12.7 x 10.5 mm  
– 12.7 x 9.0 mm (Staggered)

**6.0–10.0 mm<sup>2</sup> SWS:**  
– 16.0 x 16.0 mm  
– 16.0 x 14.0 mm (Staggered)



**Contact Resistance:**  
New State ≤ 4 mΩ

**Mating Force:**  
Max. 35 N

**Unmating Force:**  
Max. 15 N

**Extraction Tool:**  
Part No. **539971-1**

**Product Group Drawing:**  
1355037 for tab 9.5 x 1.2  
(ISO 8092 standard)  
1241994 for tab 9.5 x 0.8

**Product Specification:**  
108-18630

**Application Specification:**  
114-18269

●) Mating Cycles are depending on various technical influences and must be clarified in each individual case.

#### Standard Receptacle Contacts (SRC)

| Wire Size Range (mm <sup>2</sup> ) | Insulation Diameter (mm) |     | Material and Finish * | Part Numbers |                  |             |                  | Applicator | Hand Tool 539783-1 with Die Set         |
|------------------------------------|--------------------------|-----|-----------------------|--------------|------------------|-------------|------------------|------------|-----------------------------------------|
|                                    | FLK                      | FLR |                       | Strip Form   | Package Quantity | Loose-Piece | Package Quantity |            |                                         |
| 3.0–6.0                            | 4.0–5.2                  | –   | 1-xxx-1               | 1718386**    | 600              | 1719385     | 500              | –          | –                                       |
| 6.0–10.0                           | 4.6–6.6                  | –   | 1-xxx-1               | 967588       | 600              | 929150      | 500              | On request | 539783-5 for 6 mm<br>539783-6 for 10 mm |
|                                    |                          |     | 1-xxx-1               | 1241930**    | 500              | 1241938     | 500              | On request | 539783-5 for 6 mm<br>539783-6 for 10 mm |
| >10.0–16.0                         | 7.1–8.1                  | –   | 1-xxx-1 / 1-xxx-2     | 967589       | 500              | 929151      | 500              | On request | 539783-7                                |

#### Receptacle Contacts Single Wire Sealing System (SWS)

| Wire Size Range (mm <sup>2</sup> ) | Insulation Diameter (mm) |     | Material and Finish    | Part Numbers |                  |             |                  | Applicator | Hand Tool 539783-1 with Die Set         |
|------------------------------------|--------------------------|-----|------------------------|--------------|------------------|-------------|------------------|------------|-----------------------------------------|
|                                    | FLK                      | FLR |                        | Strip Form   | Package Quantity | Loose-Piece | Package Quantity |            |                                         |
| 6.0–10.0                           | 4.6–6.6                  | –   | CuNiSi, pre-tin plated | 1-967590-1   | 500              | 1-929152-1  | 500              | On request | 539783-8 for 6 mm<br>539783-9 for 10 mm |
| >10.0–16.0                         | 7.1–8.1                  | –   | CuNiSi, pre-tin plated | 1-967591-1   | 500              | 1-929153-1  | 500              | On request | 1-539783-0                              |

##### \*) Material and Finish:

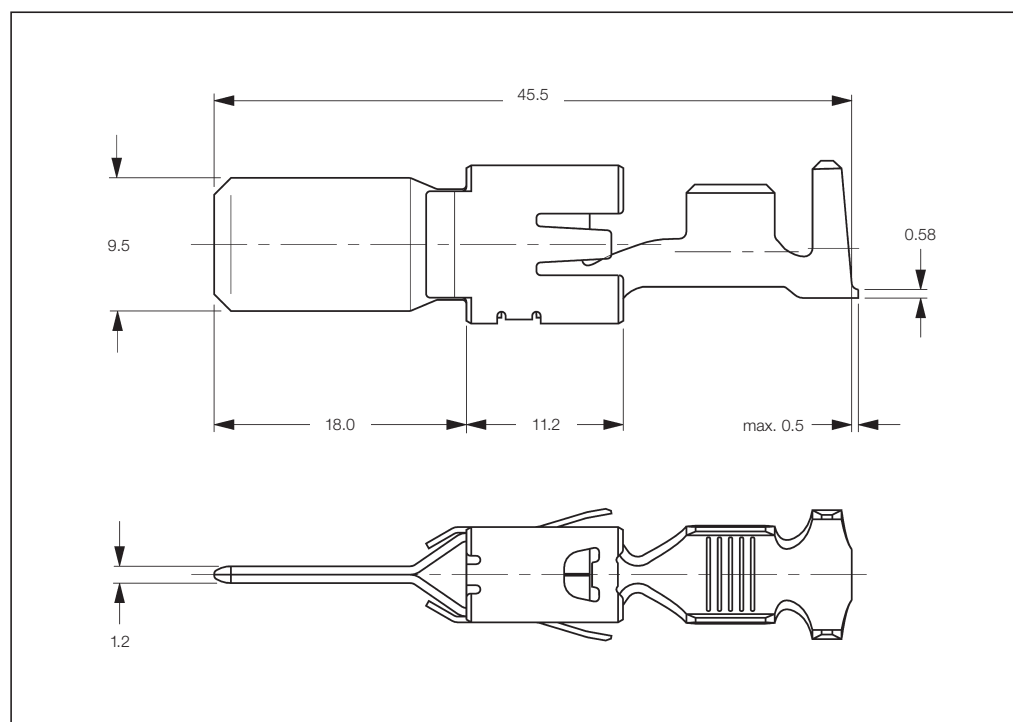
1-xxx-1 = CuNiSi, pre-tin plated  
1-xxx-2 = CuNiSi, selective silver plated

##### \*\*\*) For Tab 9.5 x 0.8 mm

## Tab Contacts

**Tabs 9.5 x 1.2 mm  
with Steel Top Spring,  
Mates with AMP MCP 9.5  
Contact System**

**Extraction Tool:**  
Part No. **1-1579007-7**



### Standard Tab Contacts (STC)

| Wire Size<br>Range<br>(mm <sup>2</sup> ) | Insulation Diameter<br>(mm) |     | Material<br>and Finish * | Part Numbers  |                     |                 |                     | Applicator | Hand Tool |
|------------------------------------------|-----------------------------|-----|--------------------------|---------------|---------------------|-----------------|---------------------|------------|-----------|
|                                          | FLK                         | FLR |                          | Strip<br>Form | Package<br>Quantity | Loose-<br>Piece | Package<br>Quantity |            |           |
| 2.5–4.0                                  | 3.3–4.7                     | –   | -1 / -2                  | 963764        | 700                 | 963765          | 500                 | On request | 734532-1  |
| 4.0–6.0                                  | 4.0–5.2                     | –   | -1 / -2                  | 963766        | 700                 | 963767          | 500                 | On request | 734533-1  |
| 6.0–10.0                                 | 4.7–6.6                     | –   | -1 / -2 / -3             | 963768        | 700                 | 963769          | 500                 | On request | 734533-1  |

### Tab Contacts Single Wire Sealing System (SWS)

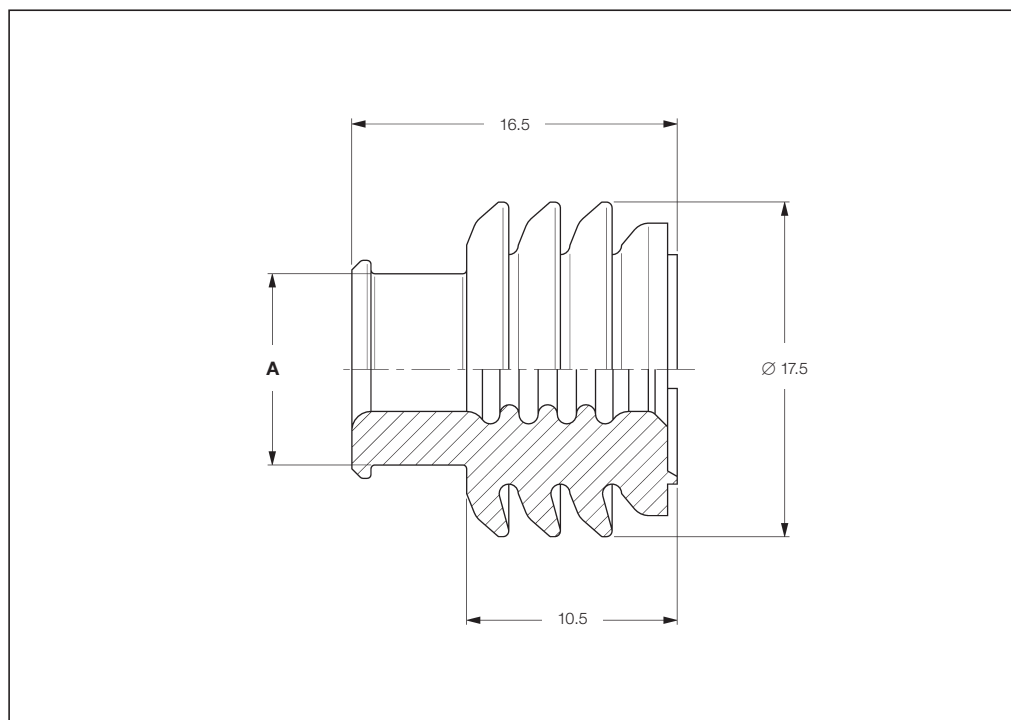
| Wire Size<br>Range<br>(mm <sup>2</sup> ) | Insulation Diameter<br>(mm) |     | Material<br>and Finish * | Part Numbers  |                     |                 |                     | Applicator | Hand Tool |
|------------------------------------------|-----------------------------|-----|--------------------------|---------------|---------------------|-----------------|---------------------|------------|-----------|
|                                          | FLK                         | FLR |                          | Strip<br>Form | Package<br>Quantity | Loose-<br>Piece | Package<br>Quantity |            |           |
| 2.5–4.0                                  | 4.0–4.5                     | –   | -1 / -2                  | 963770        | 550                 | 963771          | 500                 | On request | –         |
| 4.0–6.0                                  | 4.7–5.3                     | –   | -1 / -2                  | 963772        | 550                 | 963773          | 500                 | On request | –         |
| 6.0–10.0                                 | 6.2–6.6                     | –   | -1 / -2                  | 963774        | 550                 | 963775          | 500                 | On request | –         |

**\*) Material and Finish:**

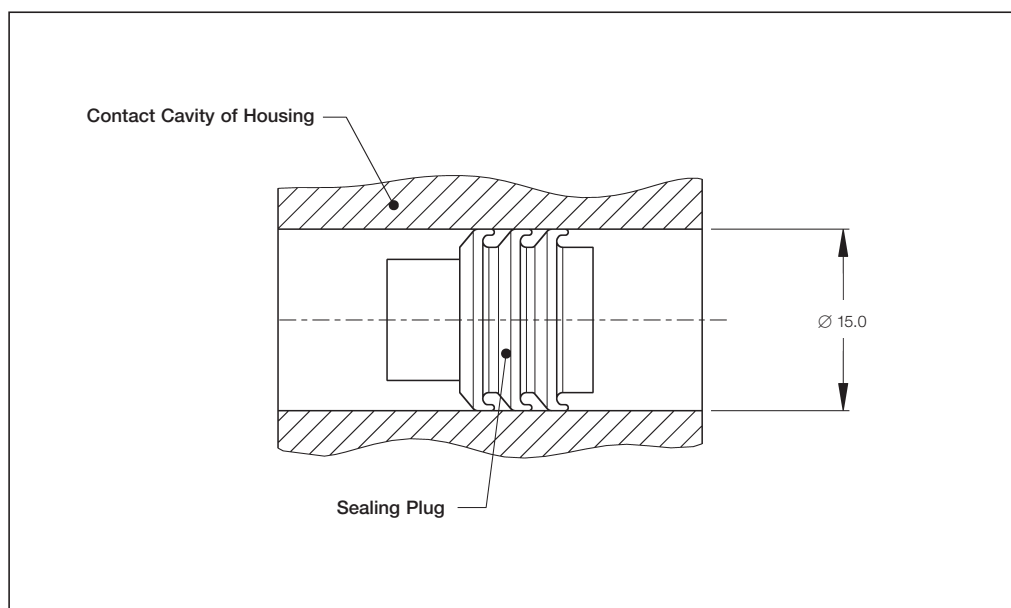
- 1 = CuSn, pre-tin plated
- 2 = CuFe, pre-tin plated
- 3 = CuSn0.15, pre-tin plated

Single Wire Seals and Sealing Plugs

**Single Wire Seals and Sealing Plugs for AMP MCP 9.5 Contact System**



| Wire Size Range (mm <sup>2</sup> ) | Insulation Diameter (mm) | Color  | Part Number | Package Quantity | Dimension A (mm) |
|------------------------------------|--------------------------|--------|-------------|------------------|------------------|
| 6.0                                | 4.6–5.2                  | Violet | 1355437-1   | 4,000            | 10.0             |
| 10.0                               | 5.8–6.6                  | Blue   | 1355437-2   | 4,000            | 10.0             |
| 16.0                               | 7.1–8.1                  | Red    | 1355437-3   | 4,000            | 10.8             |
| –                                  | Sealing Plug             | –      | –           | –                | –                |



## Introduction



The AMP MCP Connector System offers receptacle and tab housings with capability for waterproofing and resistance to conditions of extreme vibration.

The system is designed for electronic and electrical applications in motor vehicles, where vibrations and mechanical stress, in the long term, can affect the quality on the contact system.

### AMP MCP Connectors

- High reliability status supported for long term use
- High vibration level supported
- Perfect design to avoid quality problems, reduce manufacturing and service cost
- Integrated secondary locking device delivered in pre-locked position
- Wire-to-wire sealed and unsealed connectors (SWS)
- Wire-to-board sealed and unsealed connectors (SWS)
- Polarisation, several keyings
- Locking mechanism for smaller connectors/mating aid for higher numbers of ways

### Unsealed AMP MCP 1.5K Receptacle Housings

#### Technical Features

##### No. of Positions:

32 (22+10) Positions

##### Housing Material:

22 Position: PBT/ASA-GF20

10 Position: PBT-GF10

##### Wire Size Range:

AMP MCP 1.5K: 0.2–1.5 mm<sup>2</sup>

AMP MCP 2.8K: 0.2–2.5 mm<sup>2</sup>

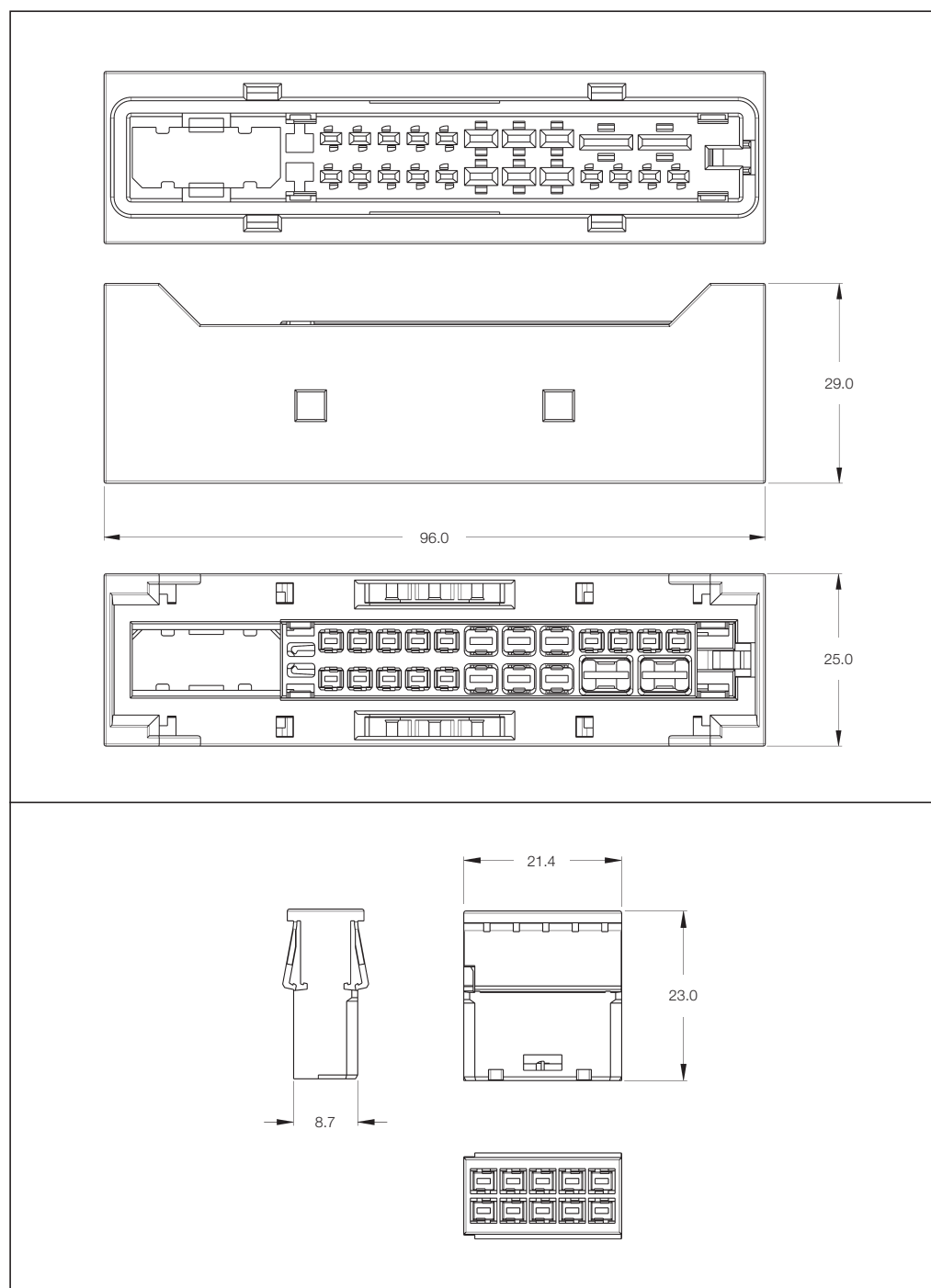
AMP MCP 4.8K: 0.2–4.0 mm<sup>2</sup>

##### Product Specification:

108-18950

##### Application Specification:

114-18619-001



#### Receptacle Housings with 22 Pos. and 10 Pos. AMP MCP

| No. of Positions | Keying Options | Housing Color        | Part Numbers                     |                                  |                 |                               |
|------------------|----------------|----------------------|----------------------------------|----------------------------------|-----------------|-------------------------------|
|                  |                |                      | Receptacle Housing, 22 Positions | Receptacle Housing, 10 Positions | Cover and Lever | Mating PCB Header Right-Angle |
| 22+10            | –              | Black / Slider Right | 1534180-1                        | 1534181-1                        | 1534184-1       | 1534046-1                     |
|                  |                | Black / Slider Left  | 1534180-2                        | 1534181-1                        | 1534184-2       | 1534046-1                     |

### Unsealed AMP MCP 1.5K Receptacle Housings

#### Technical Features

##### No. of Positions:

32 (22+10) Positions

##### Housing Material:

22 Position: PBT/ASA-GF20

10 Position: PBT-GF10

##### Wire Size Range:

AMP MCP 1.5K: 0.2–1.5 mm<sup>2</sup>

AMP MCP 2.8K: 0.2–2.5 mm<sup>2</sup>

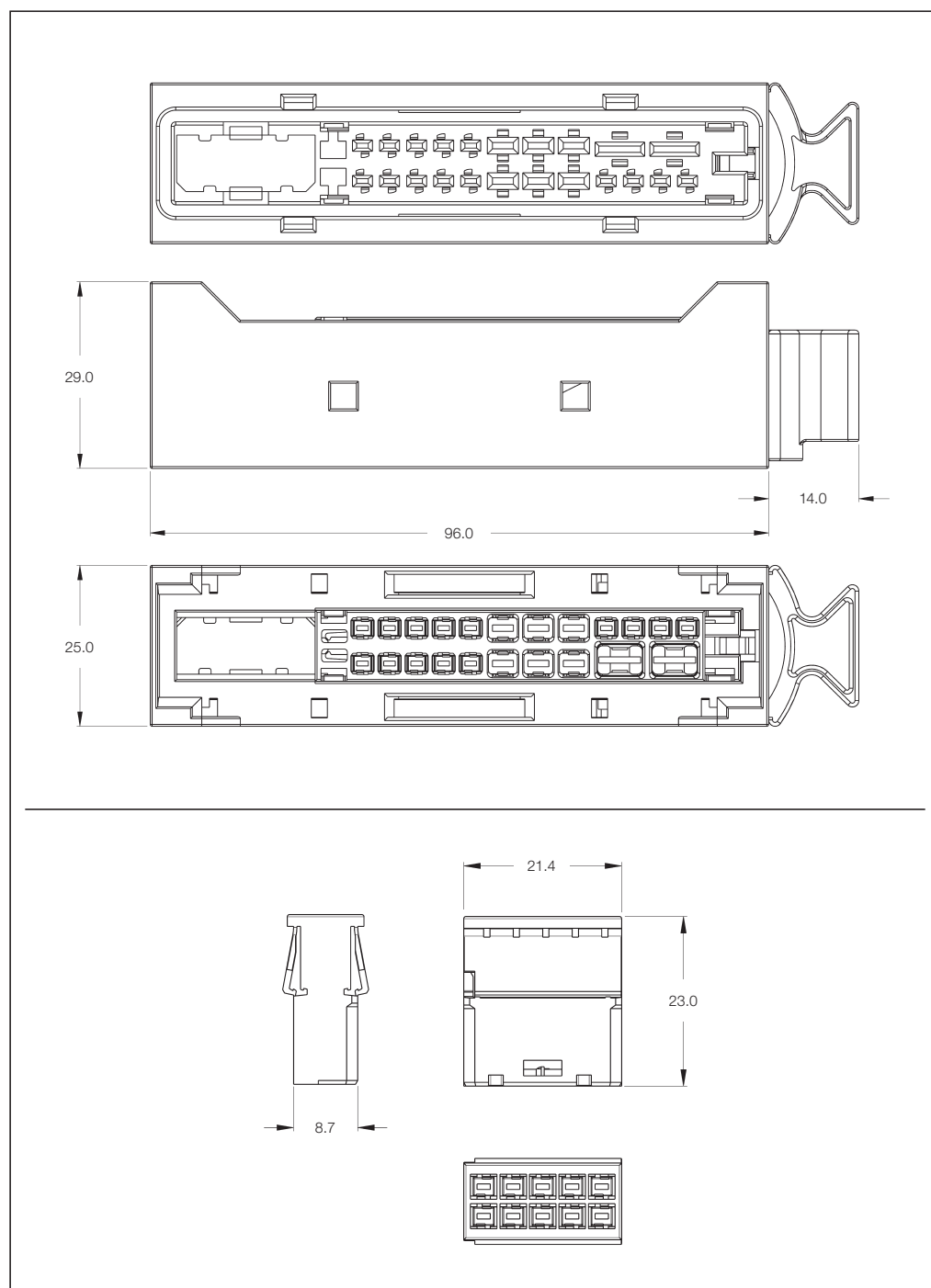
AMP MCP 4.8K: 0.2–4.0 mm<sup>2</sup>

##### Product Specification:

108-18950

##### Application Specification:

114-18619-001



#### Receptacle Housings with 22 Pos. and 10 Pos. AMP MCP

| No. of Positions | Keying Options | Housing Color | Part Numbers                     |                                  |                 |                               |
|------------------|----------------|---------------|----------------------------------|----------------------------------|-----------------|-------------------------------|
|                  |                |               | Receptacle Housing, 22 Positions | Receptacle Housing, 10 Positions | Cover and Lever | Mating PCB Header Right-Angle |
| 22+10            | –              | Black         | 1534399-1                        | 1534181-1                        | –               | 1534046-1                     |

### Unsealed AMP MCP 1.5K Receptacle Housings

#### Technical Features

##### No. of Positions:

38 (22+16) Positions

##### Housing Material:

22 Position: PBT/ASA-GF20

10 Position: PBT-GF10

##### Wire Size Range:

AMP MCP 1.5K: 0.2–1.5 mm<sup>2</sup>

AMP MCP 2.8K: 0.2–2.5 mm<sup>2</sup>

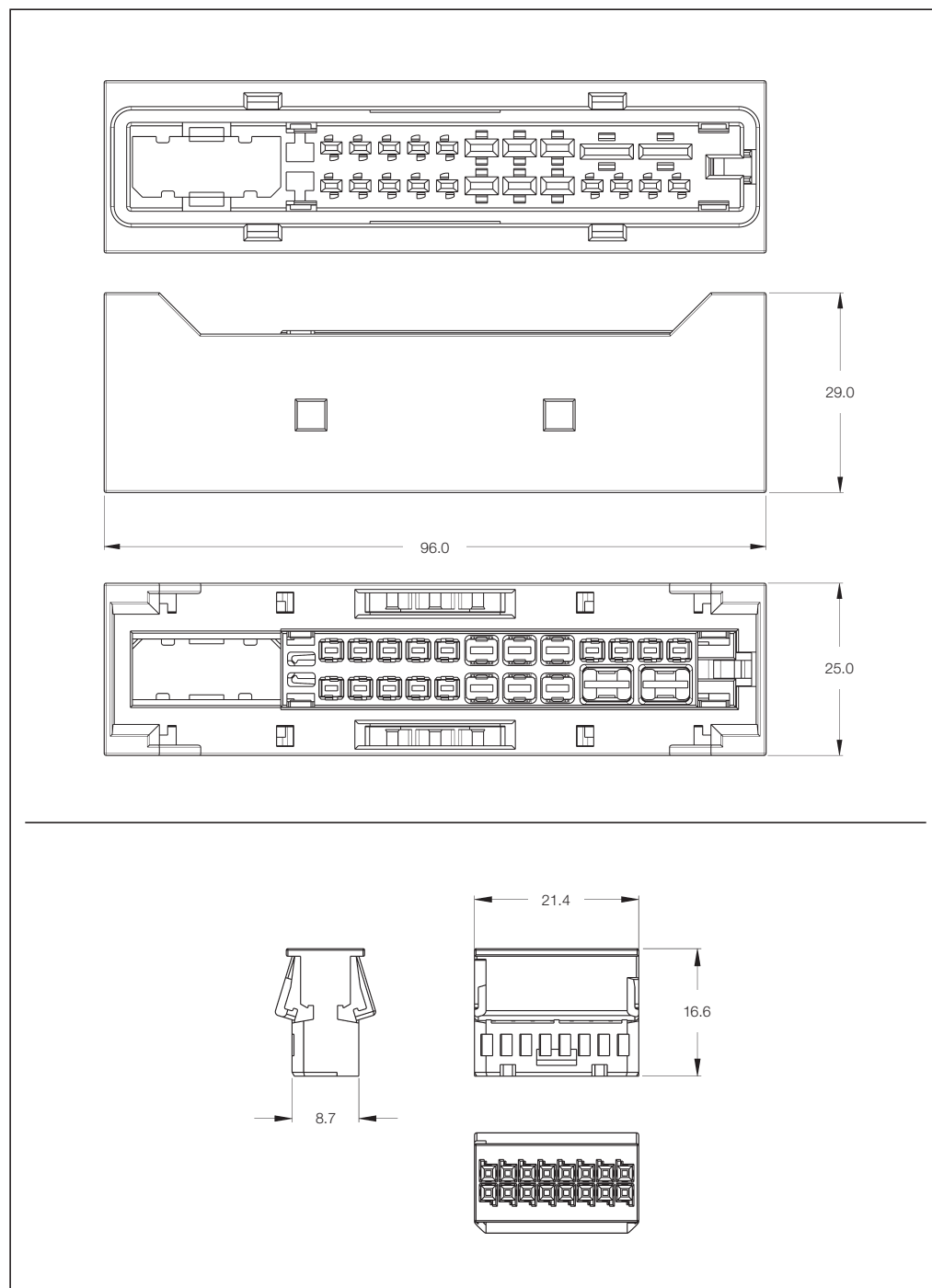
AMP MCP 4.8K: 0.2–4.0 mm<sup>2</sup>

##### Product Specification:

108-18950

##### Application Specification:

114-18619-001



#### Receptacle Housings with 22 Pos. AMP MCP + 16 Pos. MQS (Micro Quadlok)

| No. of Positions | Keying Options | Housing Color        | Part Numbers                     |                                  |                 |                               |
|------------------|----------------|----------------------|----------------------------------|----------------------------------|-----------------|-------------------------------|
|                  |                |                      | Receptacle Housing, 22 Positions | Receptacle Housing, 16 Positions | Cover and Lever | Mating PCB Header Right-Angle |
| 22+16            | –              | Black / Slider Right | 1534180-1                        | 1534579-1                        | 1534184-1       | 1534531-1                     |
|                  |                | Black / Slider Left  | 1534180-2                        | 1534579-1                        | 1534184-2       | 1534531-1                     |

### Unsealed AMP MCP 1.5K Receptacle Housings

#### Technical Features

##### No. of Positions:

38 (22+16) Positions

##### Housing Material:

22 Position: PBT/ASA-GF20

10 Position: PBT-GF10

##### Wire Size Range:

AMP MCP 1.5K: 0.2–1.5 mm<sup>2</sup>

AMP MCP 2.8K: 0.2–2.5 mm<sup>2</sup>

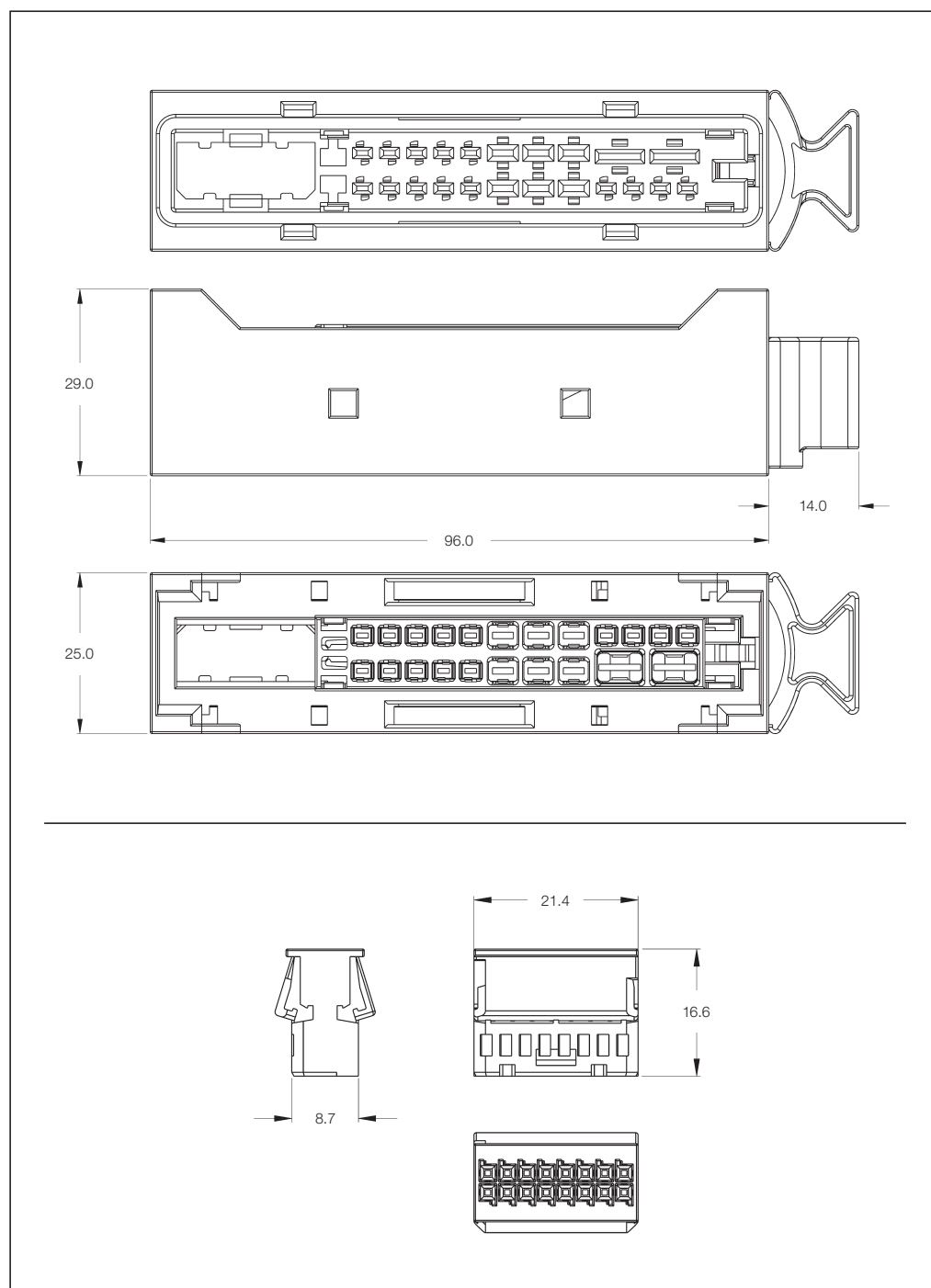
AMP MCP 4.8K: 0.2–4.0 mm<sup>2</sup>

##### Product Specification:

108-18950

##### Application Specification:

114-18619-001



#### Receptacle Housings with 22 Pos. AMP MCP + 16 Pos. MQS (Micro Quadlok)

| No. of Positions | Keying Options | Housing Color | Part Numbers                     |                                  |                 |                               |
|------------------|----------------|---------------|----------------------------------|----------------------------------|-----------------|-------------------------------|
|                  |                |               | Receptacle Housing, 22 Positions | Receptacle Housing, 10 Positions | Cover and Lever | Mating PCB Header Right-Angle |
| 22+16            | –              | Black         | 1534399-1                        | 1534579-1                        | –               | 1534531-1                     |

### Unsealed AMP MCP 1.5K/2.8 Receptacle Housings

#### Technical Features

##### No. of Positions:

12 Positions Assembly

##### Housing Material:

PA 66 GF

##### Wire Size Range:

4x 2.5 mm<sup>2</sup> FLR Max.

8x 1.5 mm<sup>2</sup> FLR Max.

##### Extraction Tools:

Part No. **1579007-1**

Part No. **1-1579007-1**

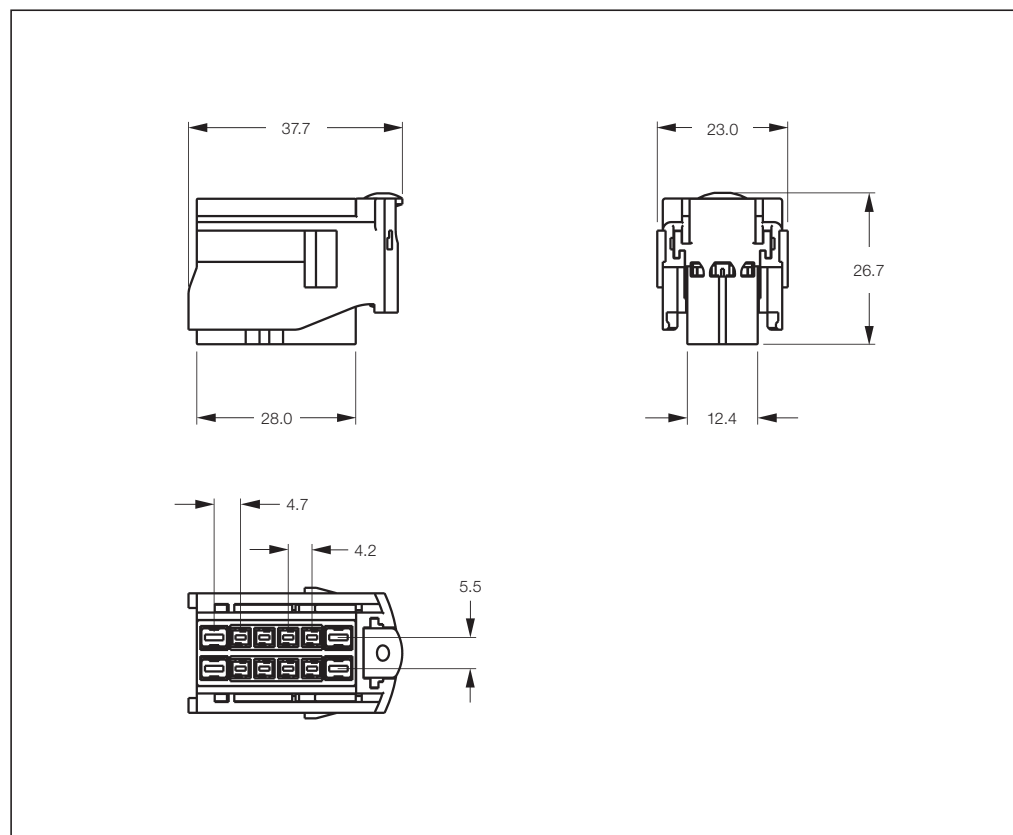
dependent on the contact

##### Product Specification:

108-20243

##### Application Specification:

411-20071



#### Unsealed Mixed Receptacle Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |                    |                   |
|------------------|----------------|---------------|--------------------|------------------|--------------------|-------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Mating Tab Housing | Mating PCB Header |
| 12               | A with CPA*    | Black         | 284853-1           | 1,000            | 284858-1           | —                 |
|                  | A without CPA  | Black         | 284853-2           | 1,000            | 284858-3           | —                 |
|                  | B with CPA*    | Gray          | 284853-3           | 1,000            | 284858-2           | —                 |
|                  | B without CPA  | Gray          | 284853-4           | 1,000            | 284858-4           | —                 |

\*) CPA = Connector Position Assurance.

### Unsealed AMP MCP 1.5K/2.8 Receptacle Housings

#### Technical Features

##### No. of Positions:

20 Positions Assembly

##### Housing Material:

PA 66 GF

##### Wire Size Range:

4x 2.5 mm<sup>2</sup> FLR Max.

16x 1.5 mm<sup>2</sup> FLR Max.

##### Extraction Tools:

Part No. **1579007-1**

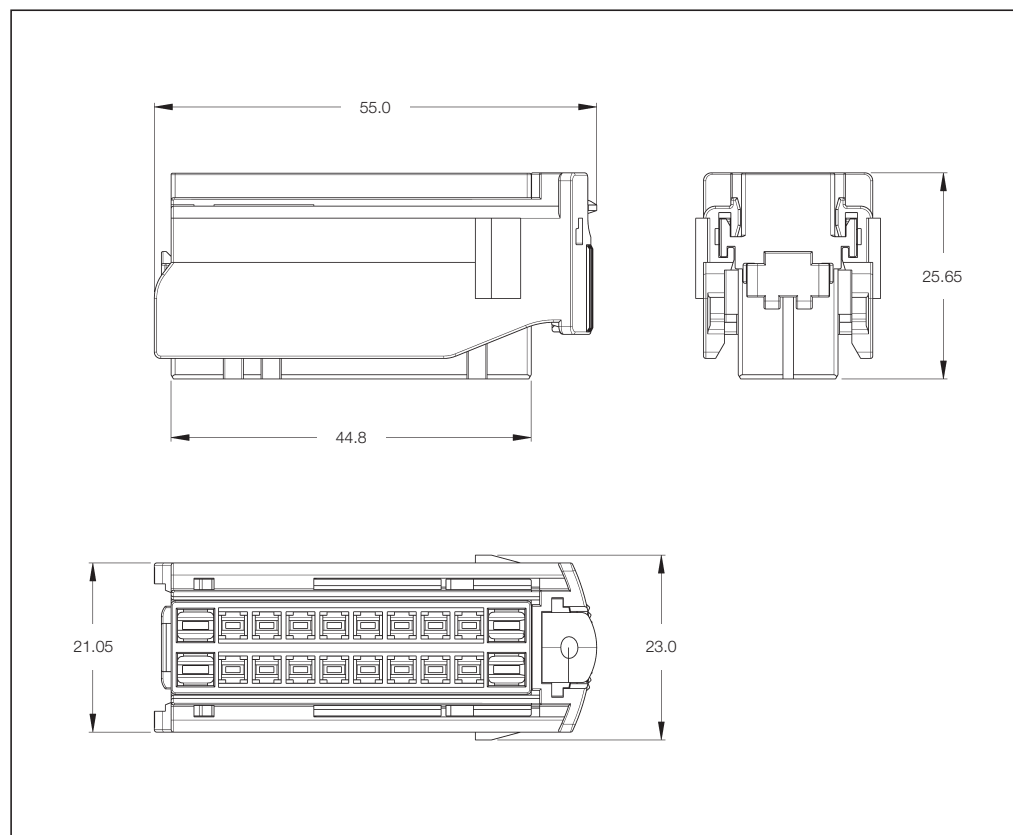
Part No. **1-1579007-1**  
dependent on the contact

##### Product Specification:

108-20243

##### Application Specification:

411-20071



#### Unsealed Mixed Receptacle Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |                    |                   |
|------------------|----------------|---------------|--------------------|------------------|--------------------|-------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Mating Tab Housing | Mating PCB Header |
| 20               | A with CPA*    | Black         | 284875-1           | 600              | 284879-1           | —                 |
|                  | A without CPA  | Black         | 284875-2           | 600              | 284879-3           | —                 |
|                  | B with CPA*    | Gray          | 284875-3           | 600              | 284879-2           | —                 |
|                  | B without CPA  | Gray          | 284875-4           | 600              | 284879-4           | —                 |

\*) CPA = Connector Position Assurance.

### Unsealed AMP MCP 1.5K Receptacle Insert

#### Technical Features

##### No. of Positions:

9 Positions

##### Housing Material:

PBT-GF20

##### Wire Size Range:

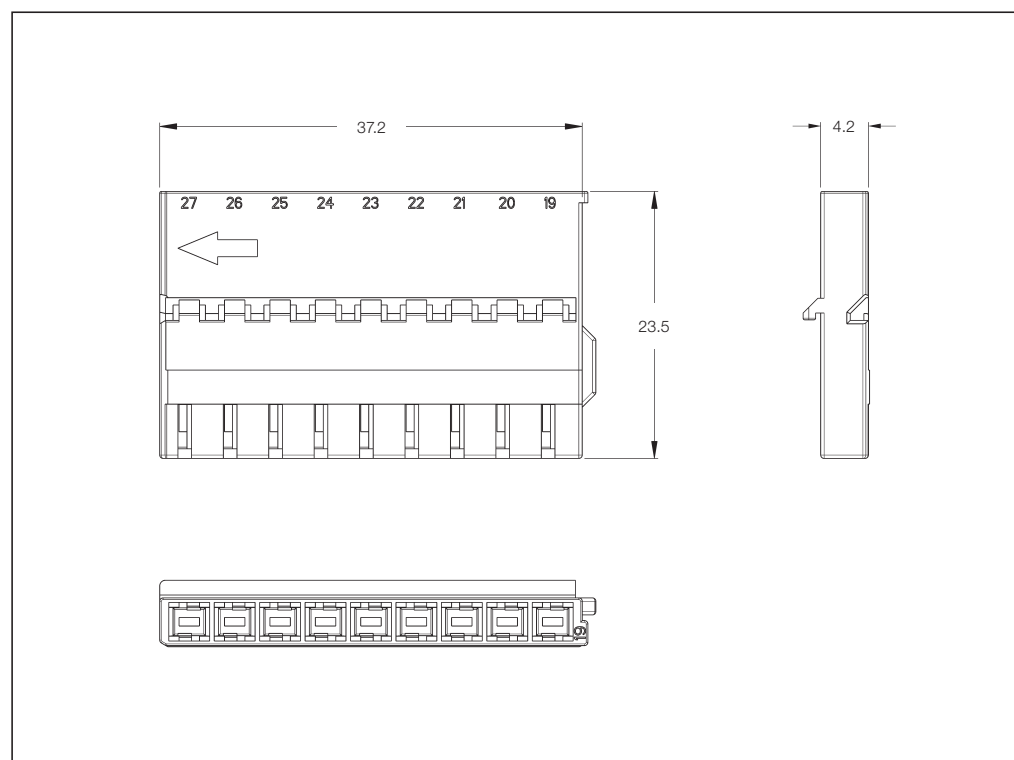
1.5 mm<sup>2</sup> FLR Max.

##### Product Specification:

108-18957

##### Application Specification:

114-18663



#### AMP MCP 1.5K Receptacle Insert

| No. of Positions | Keying Options | Housing Color | Part Numbers      |                   |
|------------------|----------------|---------------|-------------------|-------------------|
|                  |                |               | Receptacle Insert | Used with Carrier |
| 9                | A              | Black         | 1718490-1         | 1-1718485-1       |
|                  |                |               |                   | 1-1718485-2       |
|                  | B              | Natural       | 1718490-2         | 1-1718485-3       |
|                  |                |               |                   | 1-1718485-4       |

### Unsealed AMP MCP 1.5K Receptacle Insert

#### Technical Features

##### No. of Positions:

18 Positions

##### Housing Material:

PBT-GF20

##### Wire Size Range:

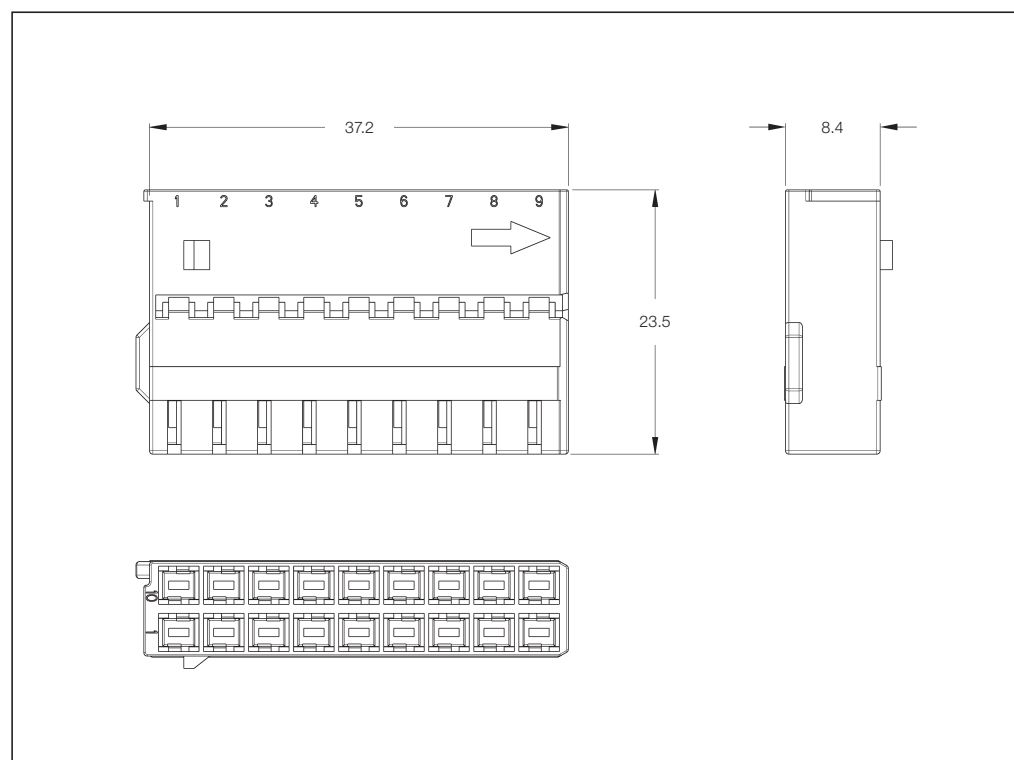
1.5 mm<sup>2</sup> FLR Max.

##### Product Specification:

108-18957

##### Application Specification:

114-18663



### AMP MCP 1.5K Receptacle Insert

| No. of Positions | Keying Options | Housing Color | Part Numbers      |                   |
|------------------|----------------|---------------|-------------------|-------------------|
|                  |                |               | Receptacle Insert | Used with Carrier |
| 18               | —              | Black         | 1718489-1         | 1-1718484-1       |
|                  |                |               |                   | 1-1718484-2       |
|                  |                |               |                   | 1-1718484-3       |
|                  |                |               |                   | 1-1718484-4       |
|                  |                |               |                   | 1-1718485-1       |
|                  |                |               |                   | 1-1718485-2       |
|                  |                |               |                   | 1-1718485-3       |
|                  |                |               |                   | 1-1718485-4       |

### Unsealed AMP MCP 2.8 Receptacle Insert

#### Technical Features

**No. of Positions:**

7 Positions

**Housing Material:**

PBT-GF20

**Wire Size Range:**

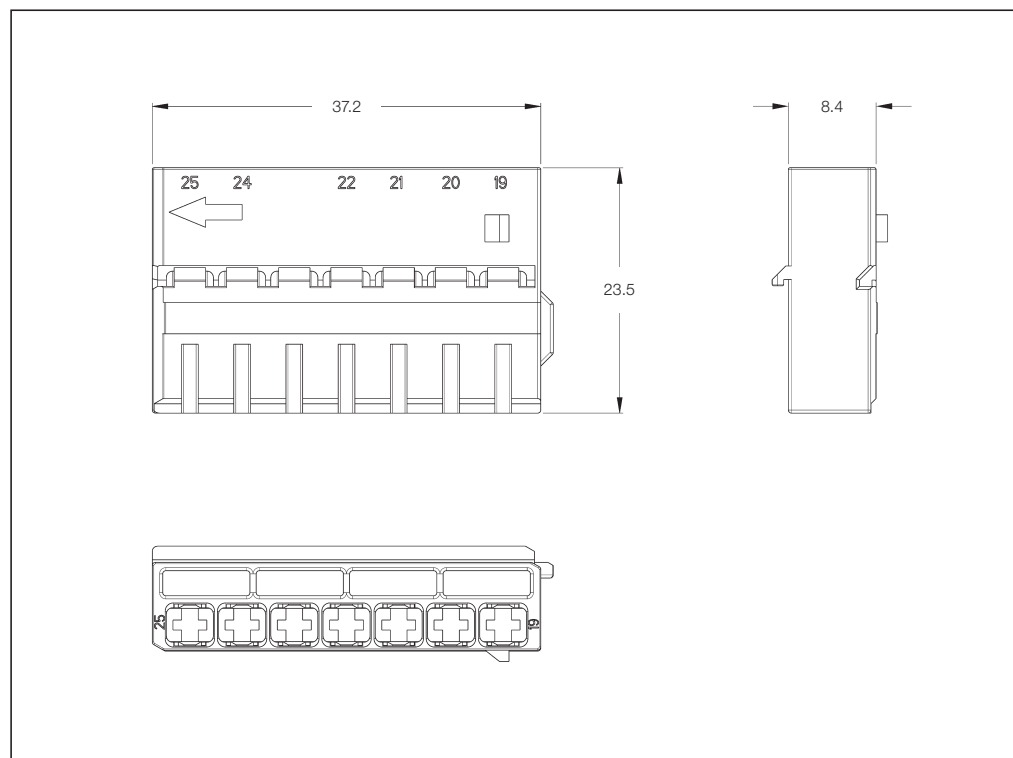
2.5 mm<sup>2</sup> FLR Max.

**Product Specification:**

108-18957

**Application Specification:**

114-18663



#### AMP MCP 2.8 Receptacle Insert

| No. of Positions | Keying Options | Housing Color | Part Numbers      |                   |
|------------------|----------------|---------------|-------------------|-------------------|
|                  |                |               | Receptacle Insert | Used with Carrier |
| 7                | —              | Natural       | 1718488-1         | 1-1718484-1       |
|                  |                |               |                   | 1-1718484-2       |
|                  |                |               |                   | 1-1718484-3       |
|                  |                |               |                   | 1-1718484-4       |

### Unsealed (Carrier) Housings for AMP MCP 1.5K Receptacle Inserts

#### Technical Features

##### No. of Positions:

36 Positions

##### Housing Material:

PBT/ASA-GF30

##### Wire Size Range:

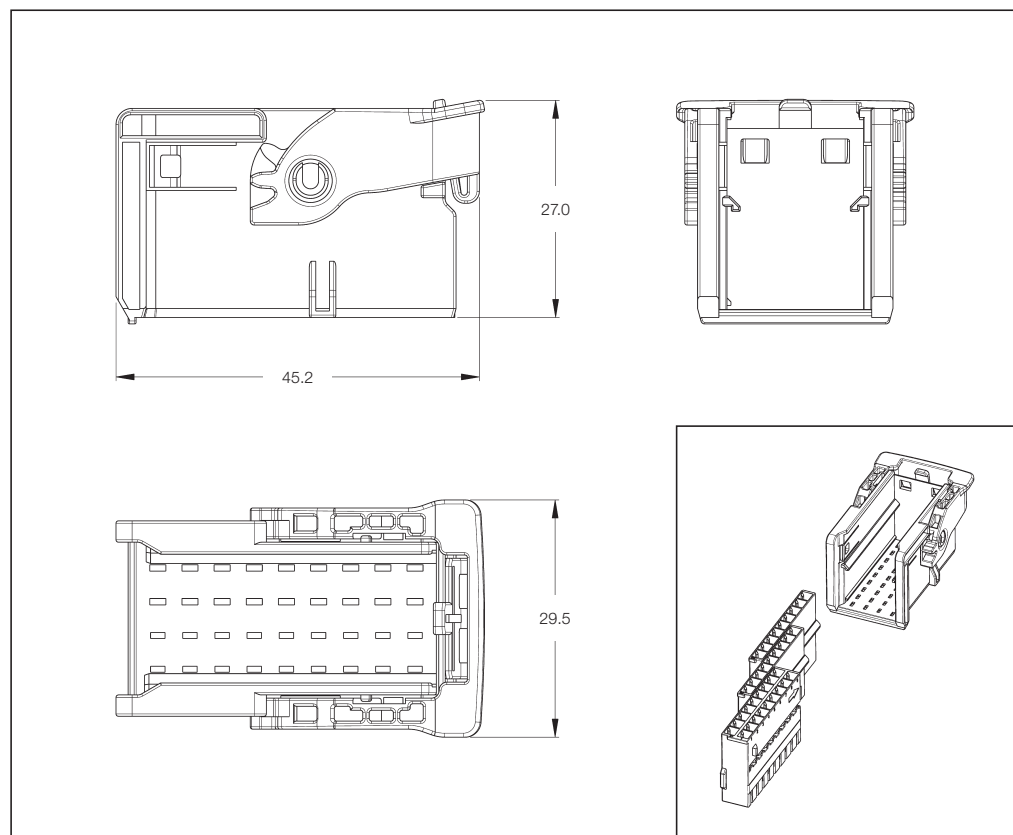
1.5 mm<sup>2</sup> FLR Max.  
with receptacle insert  
Part No. **1718489** and  
Part No. **1718490**

##### Product Specification:

108-18957

##### Application Specification:

114-18663



### Unsealed (Carrier) Housings for AMP MCP 1.5K Receptacle Inserts

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                     |                     |                    |                   |
|------------------|----------------|---------------|--------------------|---------------------|---------------------|--------------------|-------------------|
|                  |                |               | Carrier with Lever | 9 Pos. Insert Key A | 9 Pos. Insert Key B | Mating Tab Housing | Mating Tab Header |
| 36               | A              | Brown         | 1-1718485-1        | 1718490-1           | 1718490-2           | 1-1718492-1        | 1-1670615-1       |
|                  | B              | Purple        | 1-1718485-2        |                     |                     | 1-1718492-2        | *)                |
|                  | C              | Emerald Green | 1-1718485-3        |                     |                     | 1-1718492-3        | *)                |
|                  | D              | Water Blue    | 1-1718485-4        |                     |                     | 1-1718492-4        | *)                |

\*) On request.

### Unsealed (Carrier) Housings for AMP MCP 1.5K and AMP MCP 2.8 Receptacle Inserts

#### Technical Features

##### No. of Positions:

25 Positions

##### Housing Material:

PBT/ASA-GF30

##### Wire Size Range

(with Receptacle Insert):

Part No. **1718488-1**

2.5 mm<sup>2</sup> FLR Max. (7x)

Part No. **1718489-1**

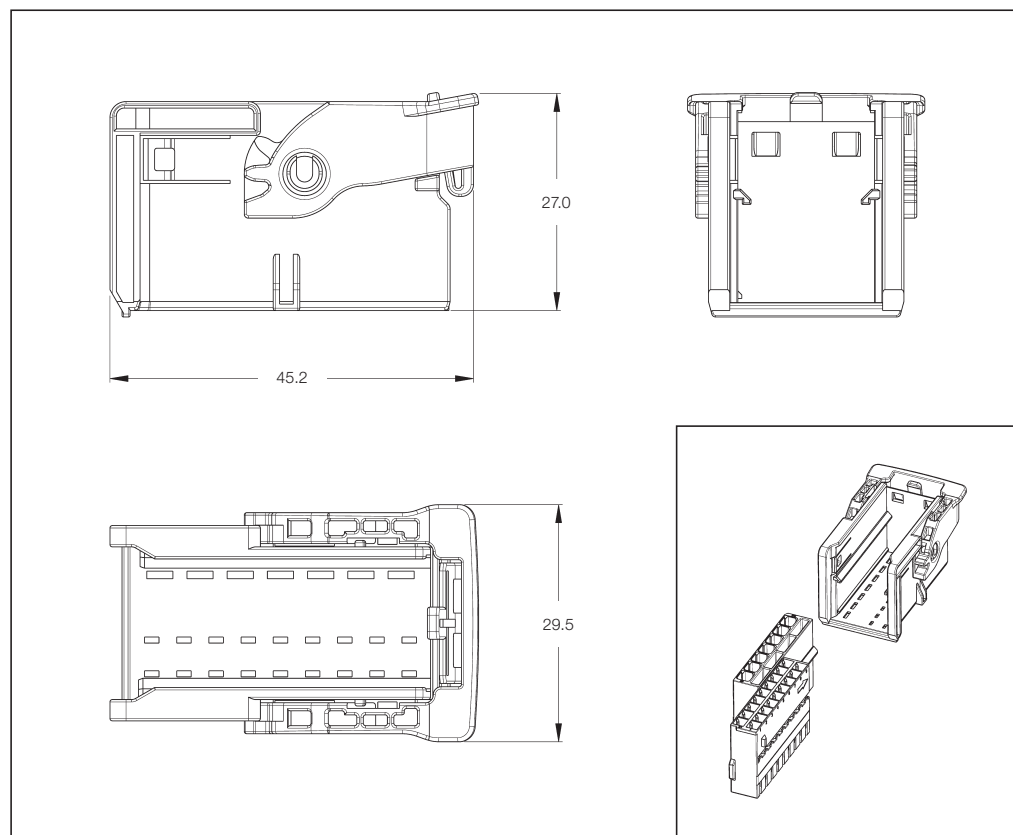
1.5 mm<sup>2</sup> FLR Max. (18x)

##### Product Specification:

108-18957

##### Application Specification:

114-18663



### Unsealed (Carrier) Housings for AMP MCP 1.5K and AMP MCP 2.8 Receptacle Inserts

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                   |                    |                    |                   |
|------------------|----------------|---------------|--------------------|-------------------|--------------------|--------------------|-------------------|
|                  |                |               | Carrier with Lever | 7 Position Insert | 18 Position Insert | Mating Tab Housing | Mating Tab Header |
| 25               | A              | Brown         | 1-1718484-1        | 1718488-1         | 1718489-1          | 1-1718491-1        | 1-1670615-2       |
|                  | B              | Purple        | 1-1718484-2        |                   |                    | 1-1718491-2        | *)                |
|                  | C              | Emerald Green | 1-1718484-3        |                   |                    | 1-1718491-3        | *)                |
|                  | D              | Water Blue    | 1-1718484-4        |                   |                    | 1-1718491-4        | *)                |

\*) On request.

### Unsealed AMP MCP 2.8 Receptacle Housings with Secondary Locking

#### Technical Features

##### No. of Positions:

3–21 Positions

##### Housing Material:

PA 66 GF13

##### Material and Finish

##### Headers:

CuSn, tin plated

##### Wire Size Range:

2.5 mm<sup>2</sup> FLR Max.

4.0 mm<sup>2</sup> FLR Max. (3 pos. only)

##### Product Group Drawing:

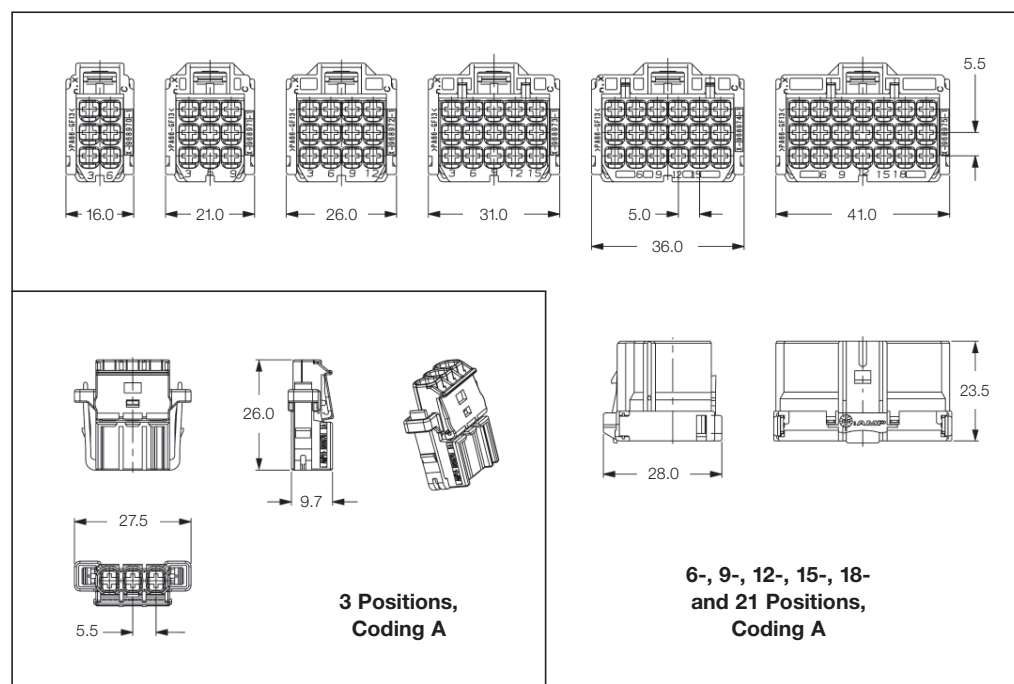
1355073 for 3–21 positions

##### Product Specification:

108-18619-3

##### Application Specification:

114-18221-3



### AMP MCP 2.8 Receptacle Housings with Secondary Locking

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |                    |
|------------------|----------------|---------------|--------------------|------------------|--------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Mating Tab Housing |
| 3                | A              | Black         | 1-968976-9         | –                | 1-968977-9         |
| 6                |                | Blue**        | 8-968970-1         | –                | 1-965641-1*        |
| 9                |                | Yellow**      | 8-968971-1         | –                | 1-967626-1*        |
| 12               |                | Green**       | 8-968972-1         | –                | 1-967627-1*        |
| 15               |                | Violet**      | 8-968973-1         | –                | 1-967628-1*        |
| 18               |                | Gray          | 8-968974-1         | –                | 1-967629-1*        |
| 21               |                | Brown**       | 8-968975-1         | –                | 1-967630-1*        |
| 3                | B              | Gray          | 2-968976-9         | –                | 2-968977-9         |
| 6                |                | Natural       | 7-968970-1         | –                | 2-965641-1         |
| 9                |                | Natural       | 7-968971-1         | –                | 2-967626-1         |
| 12               |                | Natural       | 7-968972-1         | –                | 2-967627-1         |
| 15               |                | Natural       | 7-968973-1         | –                | 2-967628-1         |
| 18               |                | Natural       | 7-968974-1         | –                | –                  |
| 21               |                | Natural       | 7-968975-1         | –                | 2-967630-1         |
| 3                | C              | Blue          | 3-968976-9         | –                | 3-968977-9         |
| 6                |                | Blue          | 6-968970-1         | –                | 3-965641-1         |
| 9                |                | Blue          | 6-968971-1         | –                | 3-967626-1         |
| 12               |                | Blue          | 6-968972-1         | –                | 3-967627-1         |
| 15               |                | Blue          | 6-968973-1         | –                | 3-967628-1         |
| 18               |                | Blue          | 6-968974-1         | –                | –                  |
| 21               |                | Blue          | 6-968975-1         | –                | 3-967630-1         |
| 6                | D              | Violet        | 5-968970-1         | –                | 4-965641-1         |
| 9                |                | Violet        | 5-968971-1         | –                | 4-967626-1         |
| 12               |                | Violet        | 5-968972-1         | –                | 4-967627-1         |
| 15               |                | Violet        | 5-968973-1         | –                | 4-967628-1         |
| 18               |                | Violet        | 5-968974-1         | –                | –                  |

6 Pos. 966140-5, Black  
9 Pos. 966140-4, Black  
12 Pos. 966140-3, Black  
15 Pos. 966140-2, Black  
18 Pos. 966140-1, Black  
21 Pos. 966140-6, Black

\*) Other colors available. See Product Group Drawing 1355072.

\*\*) Other colors available. See Product Group Drawing 1355073.

### Receptacle Housings for AMP MCP 2.8 Contacts

#### Technical Features

##### No. of Positions:

4, 6, 10 and 14 Positions

##### Housing Material:

PBT-GF10

##### Wire Size Range:

4.0 mm<sup>2</sup> FLR Max.

##### Extraction Tool:

Part No. **929039-1**

##### Interface Drawing:

114-18792 – 4 Positions

114-18793 – 6 Positions

114-18795 – 10 Positions

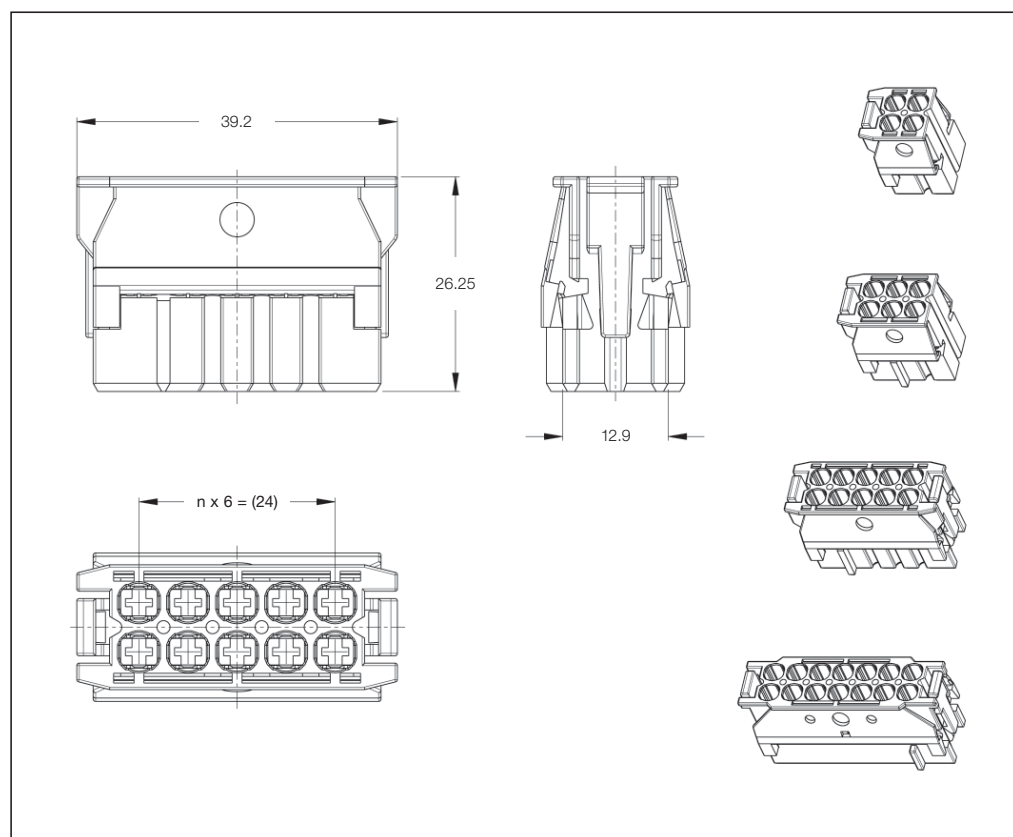
114-18754 – 14 Positions

##### Product Specification:

108-94219

##### Application Specification:

—



#### Receptacle Housings

| No. of Positions | Keying Options* | Housing Color* | Part Numbers       |                  |                    |                   |
|------------------|-----------------|----------------|--------------------|------------------|--------------------|-------------------|
|                  |                 |                | Receptacle Housing | Package Quantity | Mating Tab Housing | Mating PCB Header |
| 4                | A               | Black          | 1-1670876-1        | —                |                    |                   |
| 6                | A               | Black          | 1-1670877-1        | —                |                    |                   |
| 10               | B               | Natural        | 2-1670879-1        | —                |                    |                   |
| 14               | C               | Blue           | 3-1719844-1        | —                |                    |                   |
|                  | G               | Orange         | 7-1719844-1        | —                |                    |                   |
|                  | H               | Pink           | 8-1719844-1        | —                |                    |                   |

\*) Other Colors and Codings on request.

### Unsealed AMP MCP 2.8 Receptacle Housings with Secondary Locking

#### Technical Features

##### Applications:

Connection to switch

##### No. of Positions:

10 Positions

##### Housing Material:

PA 66 GF13

##### Material and Finish

##### Headers:

CuSn, tin plated

##### Wire Size Range:

2.5 mm<sup>2</sup> FLR Max.

##### Product Group Drawing:

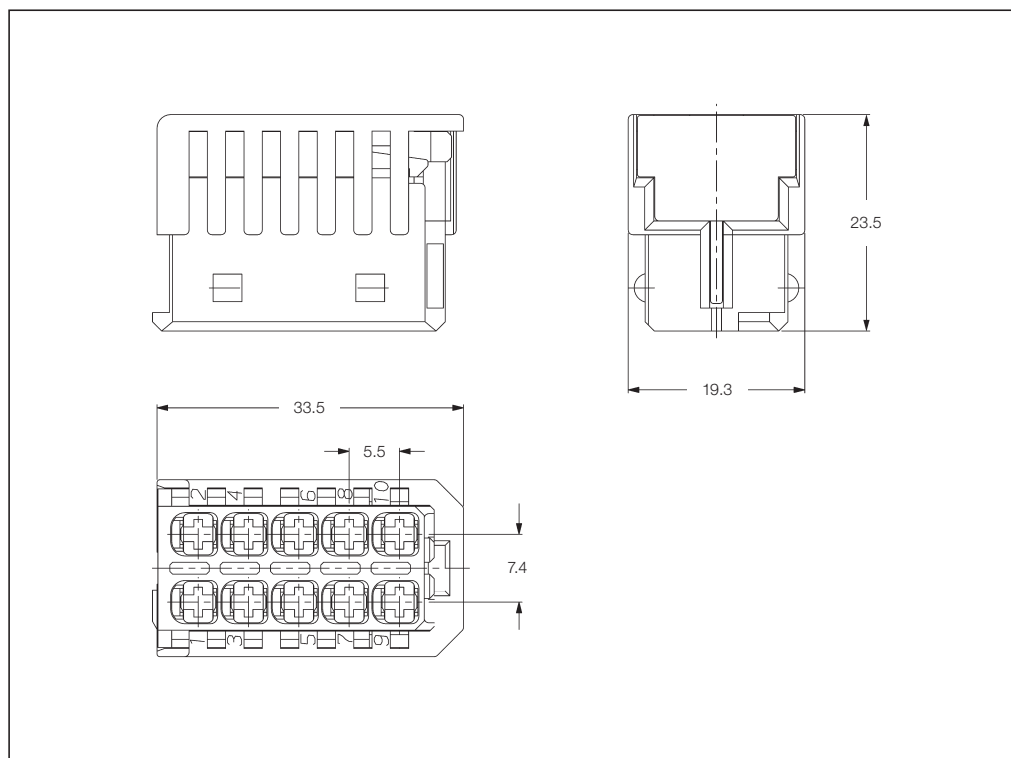
1355073 for 3–21 positions

##### Product Specification:

108-18619-3

##### Application Specification:

114-18221-3



### AMP MCP 2.8 Receptacle Housings with Secondary Locking

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |                    |                               |
|------------------|----------------|---------------|--------------------|------------------|--------------------|-------------------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Mating Tab Housing | Mating PCB Header Right-Angle |
| 10               | A              | Black         | 1418994-1          | –                | –                  | –                             |

### Unsealed AMP MCP 2.8 Receptacle Housings

#### Technical Features

##### Application:

Connection to tachograph

##### No. of Positions:

16 Positions (2 × 8)

##### Housing Material:

PA 66 GF13

##### Wire Size Range:

2.5 mm<sup>2</sup> FLR Max.

##### Extraction Tool:

Part No. **1579007-1**

##### Product Group Drawing:

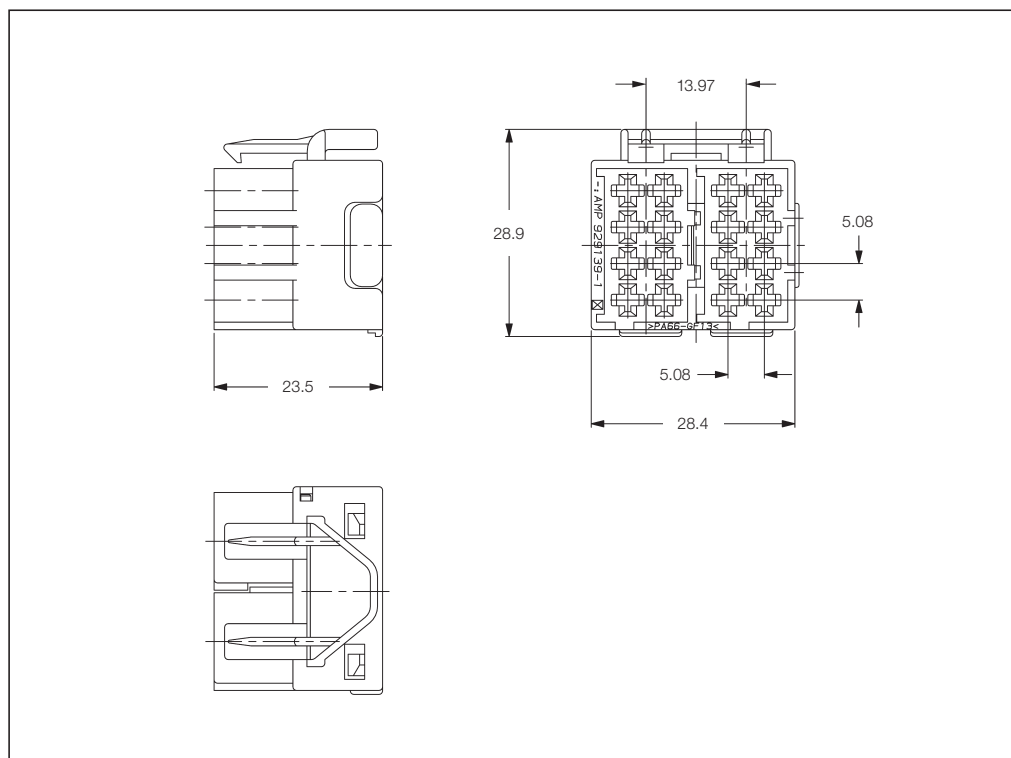
929092

##### Product Specification:

108-18619-3

##### Application Specification:

114-18221-3



### AMP MCP 2.8 Receptacle Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |                    |                   |
|------------------|----------------|---------------|--------------------|------------------|--------------------|-------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Mating Tab Housing | Mating PCB Header |
| 2 × 8            | –              | Black         | 929092-1           | –                | –                  | –                 |

Unsealed AMP MCP 6.3 Receptacle Housings with Secondary Locking

**Technical Features**

**No. of Positions:**

4 Positions

**Housing Material:**

PBT-GF10

**Wire Size Range:**

6.0 mm<sup>2</sup> FLR Max.

**Extraction Tool:**

Part No. **1-1579007-3**

**Product Group Drawing:**

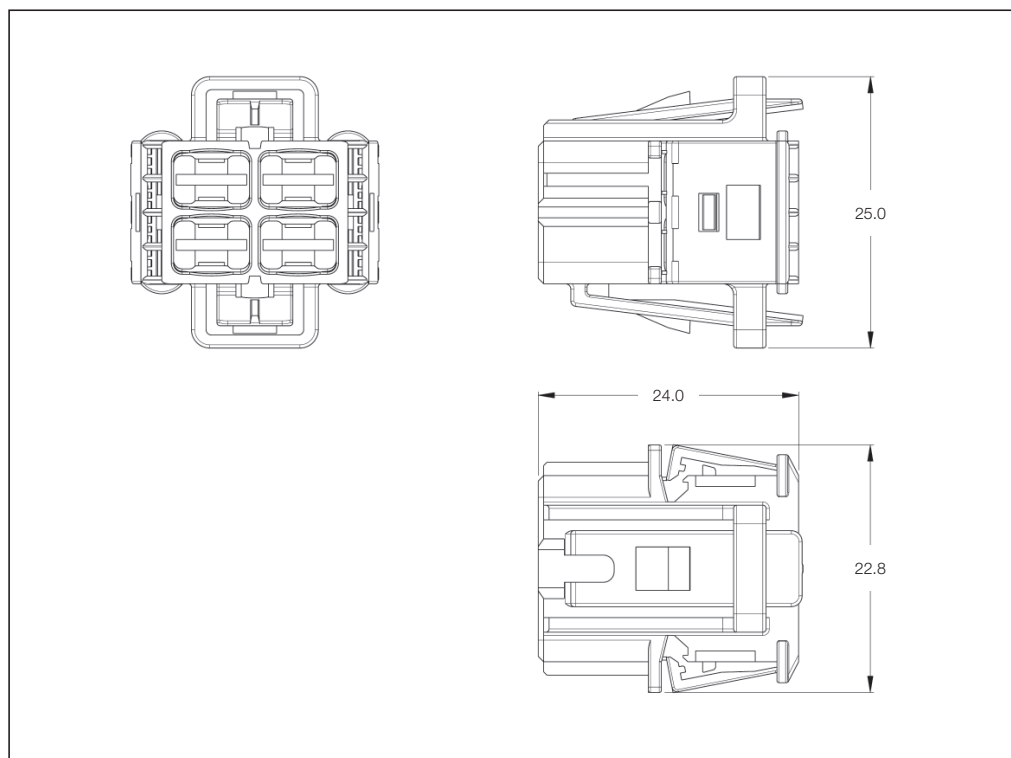
1241438

**Product Specification:**

—

**Application Specification:**

—



**AMP MCP 6.3 Receptacle Housings with Secondary Locking**

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |                    |                   |
|------------------|----------------|---------------|--------------------|------------------|--------------------|-------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Mating Tab Housing | Mating PCB Header |
| 4                | A              | Black         | 1534404-1          | —                | —                  | —                 |
|                  | B              | Gray          | 1534404-2          | —                | —                  | —                 |

### Unsealed AMP MCP 9.5 Receptacle Housings with Secondary Locking

#### Technical Features

##### No. of Positions:

2 Positions

##### Housing Material:

PA 66 GF13

##### Wire Size Range:

10.0 mm<sup>2</sup> FLK Max.

##### Extraction Tool:

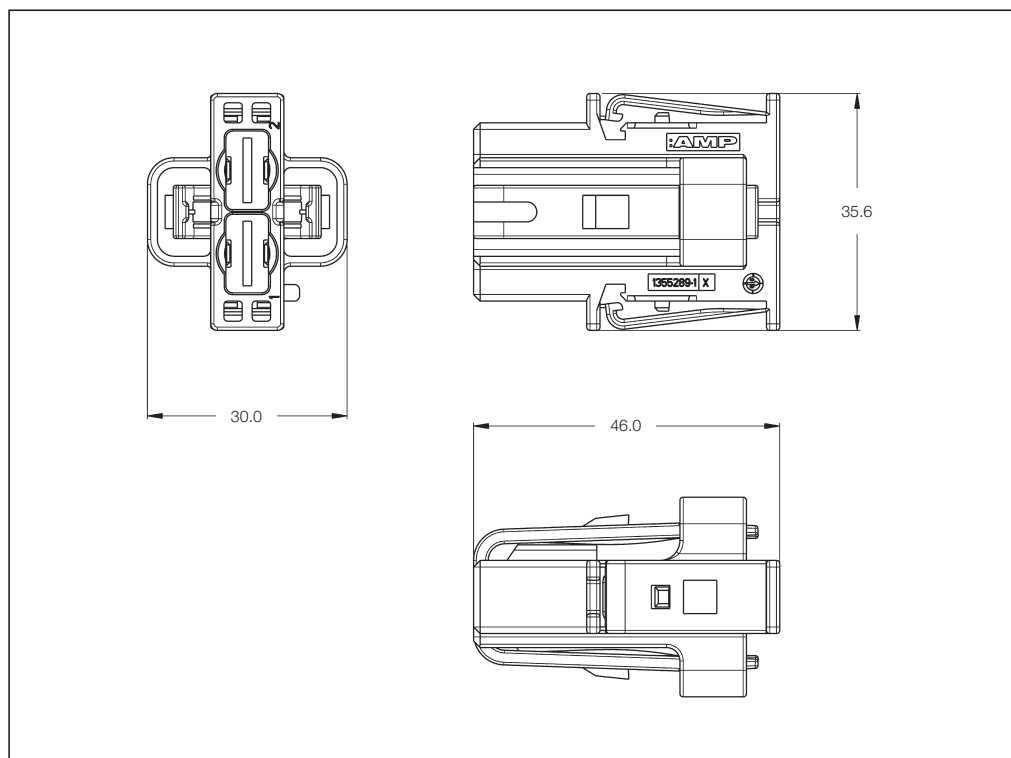
Part No. **539971-1**

##### Product Specification:

—

##### Application Specification:

—



### AMP MCP 9.5 Receptacle Housings with Secondary Locking

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |                    |                   |
|------------------|----------------|---------------|--------------------|------------------|--------------------|-------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Mating Tab Housing | Mating PCB Header |
| 2                | A              | Black         | 1355289-1          | —                | 1355290-1          | —                 |
|                  | B              | Gray          | 1355289-2          | —                | —                  | —                 |
|                  | C              | Blue          | 1355289-3          | —                | —                  | —                 |
|                  | D              | Yellow/Green  | 1355289-4          | —                | —                  | —                 |

### Unsealed 1.5 mm/2.8 mm Tab Housings

#### Technical Features

##### No. of Positions:

12 Positions Assembly

##### Housing Material:

PA 66 GF

##### Wire Size Range:

4x 2.5 mm<sup>2</sup> FLR Max.

8x 1.5 mm<sup>2</sup> FLR Max.

##### Extraction Tools:

Part No. **539960-1**

Part No. **1-1579007-6**

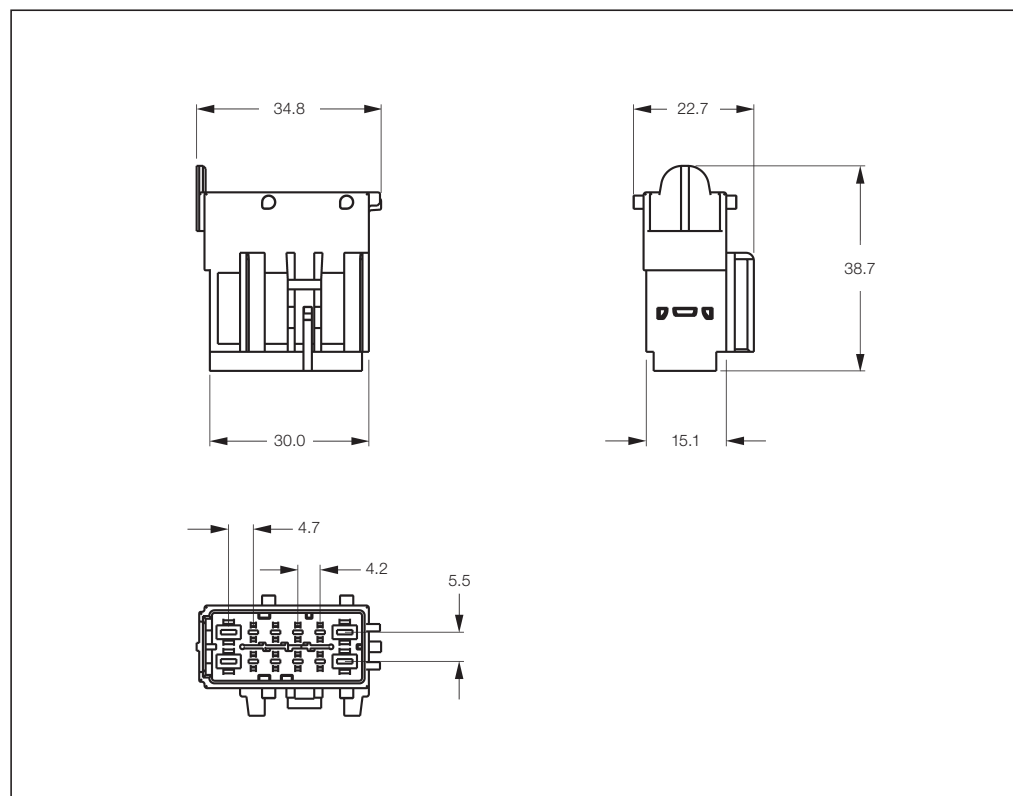
dependent on the contact

##### Product Specification:

108-20243

##### Application Specification:

411-20071



#### Unsealed Tab Housings

| No. of Positions | Keying Options                | Housing Color | Part Numbers |                  |                           |                   |
|------------------|-------------------------------|---------------|--------------|------------------|---------------------------|-------------------|
|                  |                               |               | Tab Housing  | Package Quantity | Mating Receptacle Housing | Mating PCB Header |
| 12               | A<br>Panel Hook on Left Side  | Black         | 284858-1     | 900              | 284853-1                  | —                 |
|                  | A<br>Panel Hook on Right Side | Black         | 284858-3     | 900              | 284853-2                  |                   |
|                  | B<br>Panel Hook on Left Side  | Gray          | 284858-2     | 900              | 284853-3                  | —                 |
|                  | B<br>Panel Hook on Right Side | Gray          | 284858-4     | 900              | 284853-4                  |                   |

### Unsealed 1.5 mm/2.8 mm Tab Housings

#### Technical Features

##### No. of Positions:

20 Positions Assembly

##### Housing Material:

PA 66 GF

##### Wire Size Range:

4x 2.5 mm<sup>2</sup> FLR Max.

16x 1.5 mm<sup>2</sup> FLR Max.

##### Extraction Tools:

Part No. **539960-1**

Part No. **1-1579007-6**

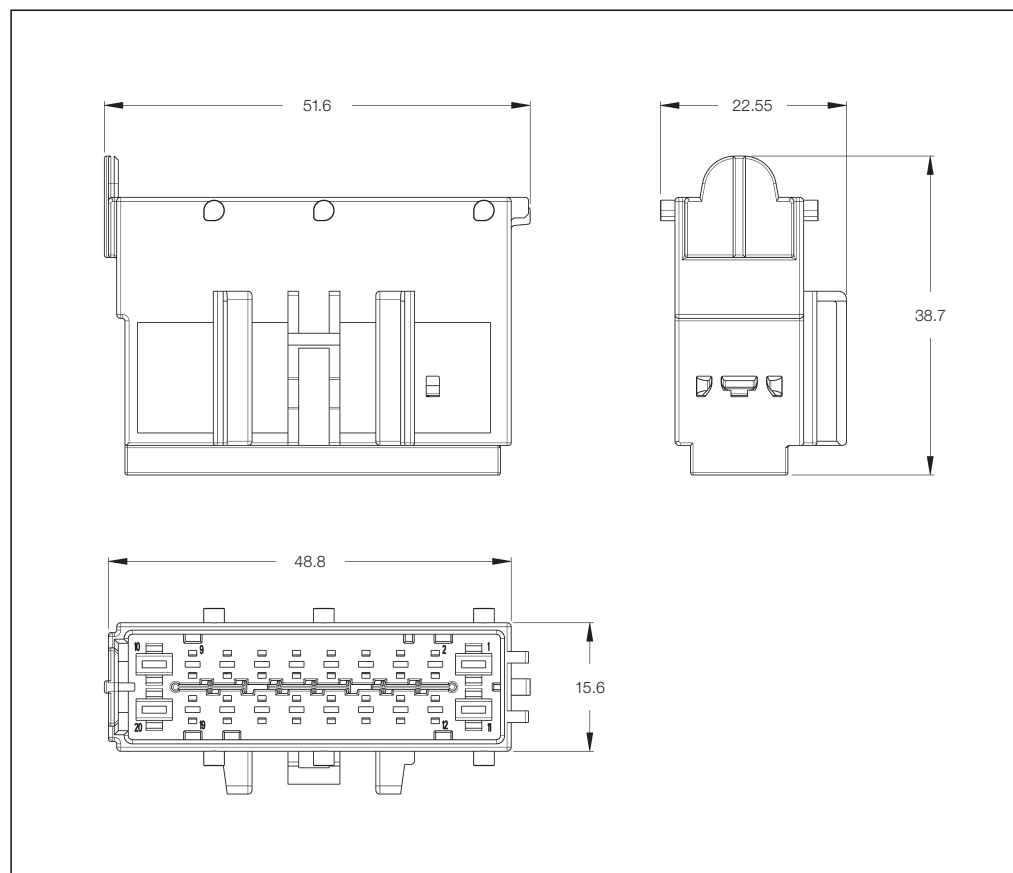
dependent on the contact

##### Product Specification:

108-20243

##### Application Specification:

411-20071



#### Unsealed Tab Housings

| No. of Positions | Keying Options                | Housing Color | Part Numbers |                  |                           |                   |
|------------------|-------------------------------|---------------|--------------|------------------|---------------------------|-------------------|
|                  |                               |               | Tab Housing  | Package Quantity | Mating Receptacle Housing | Mating PCB Header |
| 20               | A<br>Panel Hook on Left Side  | Black         | 284879-1     | 450              | 284875-1                  | —                 |
|                  | A<br>Panel Hook on Right Side | Black         | 284879-3     | 450              | 284875-2                  |                   |
|                  | B<br>Panel Hook on Left Side  | Gray          | 284879-2     | 450              | 284875-3                  | —                 |
|                  | B<br>Panel Hook on Right Side | Gray          | 284879-4     | 450              | 284875-4                  |                   |

### Unsealed 1.5 mm and 2.8 mm Tab Housings

#### Technical Features

##### No. of Positions:

25 Positions

##### Housing Material:

PBT-GF10

##### Wire Size Range:

7x 2.5 mm<sup>2</sup> FLR Max.

18x 1.5 mm<sup>2</sup> FLR Max.

##### Extraction Tools:

Part No. **1-1579007-1**

Part No. **1-1579007-2**

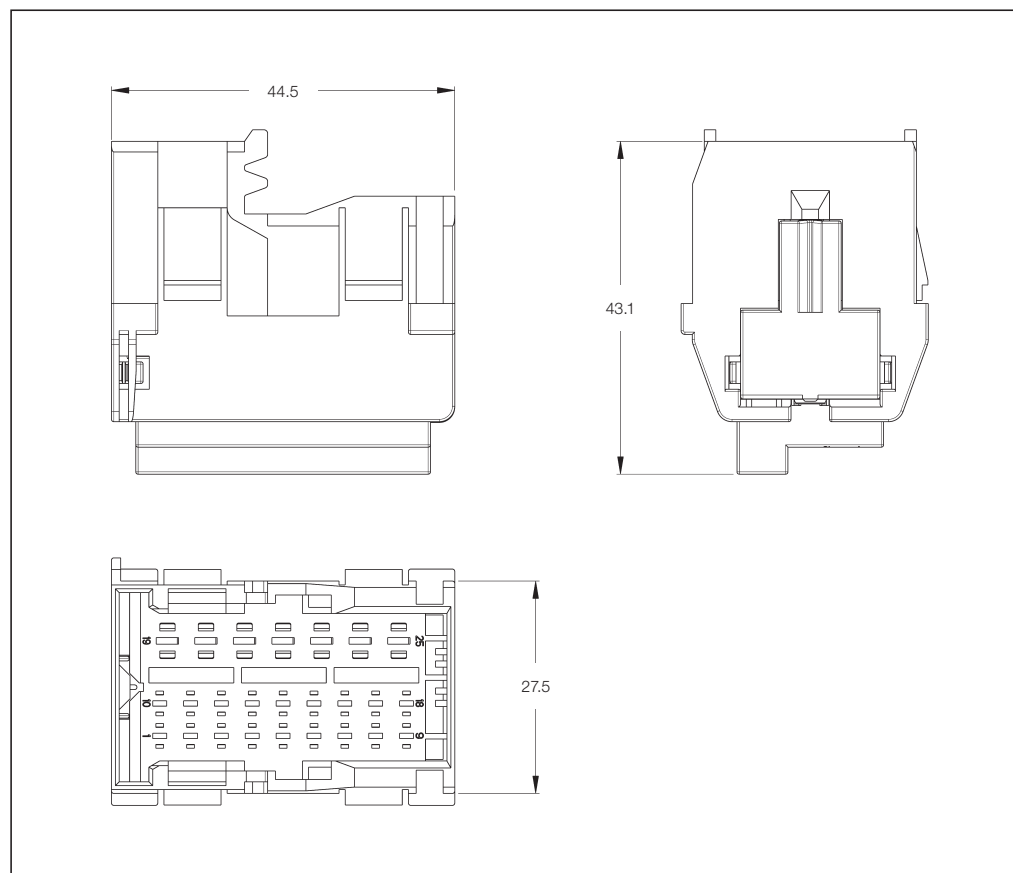
dependent on the contact

##### Product Specification:

108-18957

##### Application Specification:

114-18663



#### Unsealed Tab Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers |                    |                             |                              |
|------------------|----------------|---------------|--------------|--------------------|-----------------------------|------------------------------|
|                  |                |               | Tab Housing  | Carrier with Lever | Mating<br>7 Position Insert | Mating<br>18 Position Insert |
| 25               | A              | Black         | 1-1718491-1  | 1-1718484-1        | 1718488-1                   | 1718489-1                    |
|                  | B              | Gray          | 1-1718491-2  | 1-1718484-2        |                             |                              |
|                  | C              | Light Blue    | 1-1718491-3  | 1-1718484-3        |                             |                              |
|                  | D              | Yellow Green  | 1-1718491-4  | 1-1718484-4        |                             |                              |

### Unsealed 1.5 mm and 2.8 mm Tab Housings

#### Technical Features

##### No. of Positions:

36 Positions

##### Housing Material:

PBT-GF10

##### Wire Size Range:

1.5 mm<sup>2</sup> FLR Max.

##### Extraction Tools:

Part No. **1-1579007-1**

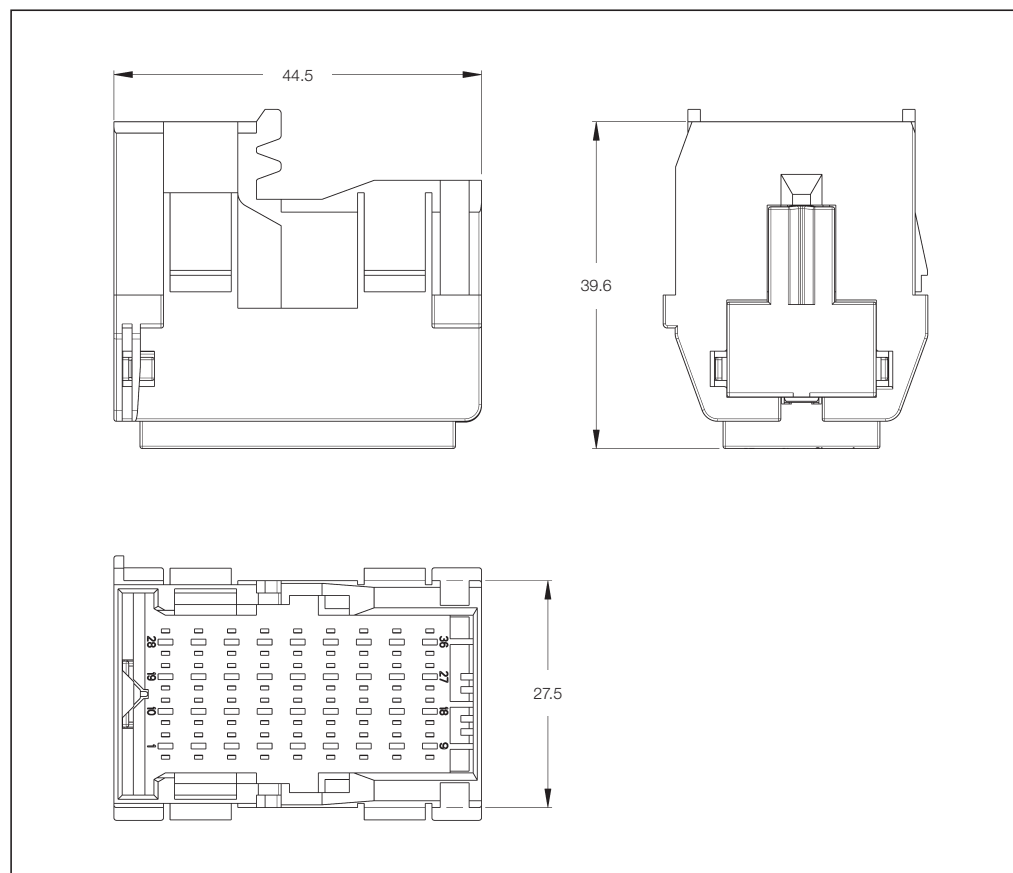
Part No. **1-1579007-2**  
dependent on the contact

##### Product Specification:

108-18957

##### Application Specification:

114-18663



#### Unsealed Tab Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers |                    |                     |                     |                    |
|------------------|----------------|---------------|--------------|--------------------|---------------------|---------------------|--------------------|
|                  |                |               | Tab Housing  | Mating             |                     |                     |                    |
|                  |                |               |              | Carrier with Lever | 9 Pos. Insert Key A | 9 Pos. Insert Key B | 18 Position Insert |
| 36               | A              | Brown         | 1-1718492-1  | 1-1718484-1        | 1718490-1           | 1718490-2           | 1718489-1          |
|                  | B              | Purple        | 1-1718492-2  | 1-1718484-2        |                     |                     |                    |
|                  | C              | Emerald Green | 1-1718492-3  | 1-1718484-3        |                     |                     |                    |
|                  | D              | Water Blue    | 1-1718492-4  | 1-1718484-4        |                     |                     |                    |

### Unsealed 2.8 mm Tab Housings with Optional Secondary Locking

#### Technical Features

##### No. of Positions:

3–21 Positions

##### Housing Material:

PA 66 GF13

##### Locking Device:

PBT ASA-GF30

##### Wire Size Range:

2.5 mm<sup>2</sup> FLR Max.

##### Product Group Drawing:

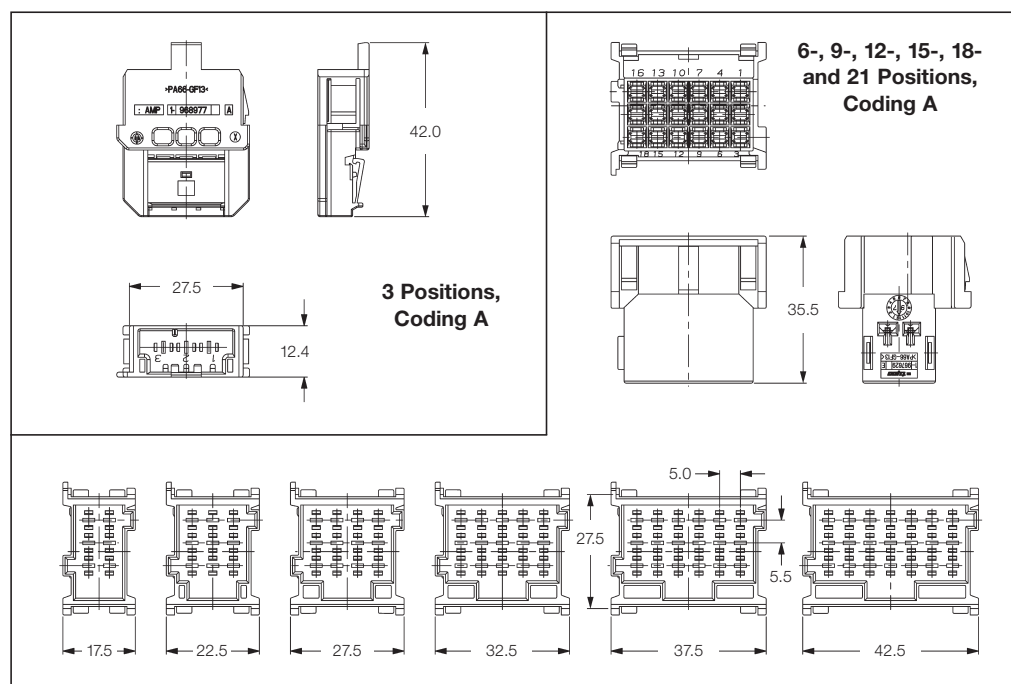
1355072 for 6–21 positions

##### Product Specification:

108-18619-3

##### Application Specification:

114-18051



### Unsealed 2.8 mm Tab Housings with Optional Secondary Locking

| No. of Positions | Keying Options | Housing Color | Part Numbers |                  |                                    |                  |                           |
|------------------|----------------|---------------|--------------|------------------|------------------------------------|------------------|---------------------------|
|                  |                |               | Tab Housing  | Package Quantity | Secondary Locking Device           | Package Quantity | Mating Receptacle Housing |
| 3                | A              | Black         | 1-968977-9   | –                | 6 Position<br>Blue:<br>968271-1    | –                | 1-968976-9                |
| 6                |                | Blue          | 1-965641-1 * | –                |                                    |                  | 8-968970-1                |
| 9                |                | Yellow        | 1-967626-1 * | –                |                                    |                  | 8-968971-1                |
| 12               |                | Green         | 1-967627-1 * | –                |                                    |                  | 8-968972-1                |
| 15               |                | Violet        | 1-967628-1 * | –                |                                    |                  | 8-968973-1                |
| 18               |                | Gray          | 1-967629-1 * | –                |                                    |                  | 8-968974-1                |
| 21               |                | Brown         | 1-967630-1 * | –                |                                    |                  | 8-968975-1                |
| 3                | B              | Gray          | 2-968977-9   | –                | 9 Position<br>Yellow:<br>967631-1  | –                | 2-968976-9                |
| 6                |                | Natural       | 2-965641-1   | –                |                                    |                  | 7-968970-1                |
| 9                |                | Natural       | 2-967626-1   | –                |                                    |                  | 7-968971-1                |
| 12               |                | Natural       | 2-967627-1   | –                |                                    |                  | 7-968972-1                |
| 15               |                | Natural       | 2-967628-1   | –                |                                    |                  | 7-968973-1                |
| 18               |                | Natural       | –            | –                |                                    |                  | 7-968974-1                |
| 21               |                | Natural       | 2-967630-1   | –                |                                    |                  | 7-968975-1                |
| 3                | C              | Blue          | 3-968977-9   | –                | 15 Position<br>Violet:<br>967633-1 | –                | 3-968976-9                |
| 6                |                | Blue          | 3-965641-1   | –                |                                    |                  | 6-968970-1                |
| 9                |                | Blue          | 3-967626-1   | –                |                                    |                  | 6-968971-1                |
| 12               |                | Blue          | 3-967627-1   | –                |                                    |                  | 6-968972-1                |
| 15               |                | Blue          | 3-967628-1   | –                |                                    |                  | 6-968973-1                |
| 18               |                | Blue          | –            | –                |                                    |                  | 6-968974-1                |
| 21               |                | Blue          | 3-967630-1   | –                |                                    |                  | 6-968975-1                |
| 6                | D              | Violet        | 4-965641-1   | –                | 21 Position<br>Brown:<br>967635-1  | –                | 5-968970-1                |
| 9                |                | Violet        | 4-967626-1   | –                |                                    |                  | 5-968971-1                |
| 12               |                | Violet        | 4-967627-1   | –                |                                    |                  | 5-968972-1                |
| 15               |                | Violet        | 4-967628-1   | –                |                                    |                  | 5-968973-1                |
| 18               |                | Violet        | –            | –                |                                    |                  | 5-968974-1                |

\*) Other colors available. See Product Group Drawing 1355072.

### Unsealed 2.8 mm Tab Housings for Potential Distribution for Wall or Panel Mounting

#### Technical Features

##### No. of Positions:

21 Pos. on One Electrical Level  
2 x 9 Pos. on Two Electrical Level

##### Housing Material:

PBT-GF10

##### Material and Finish:

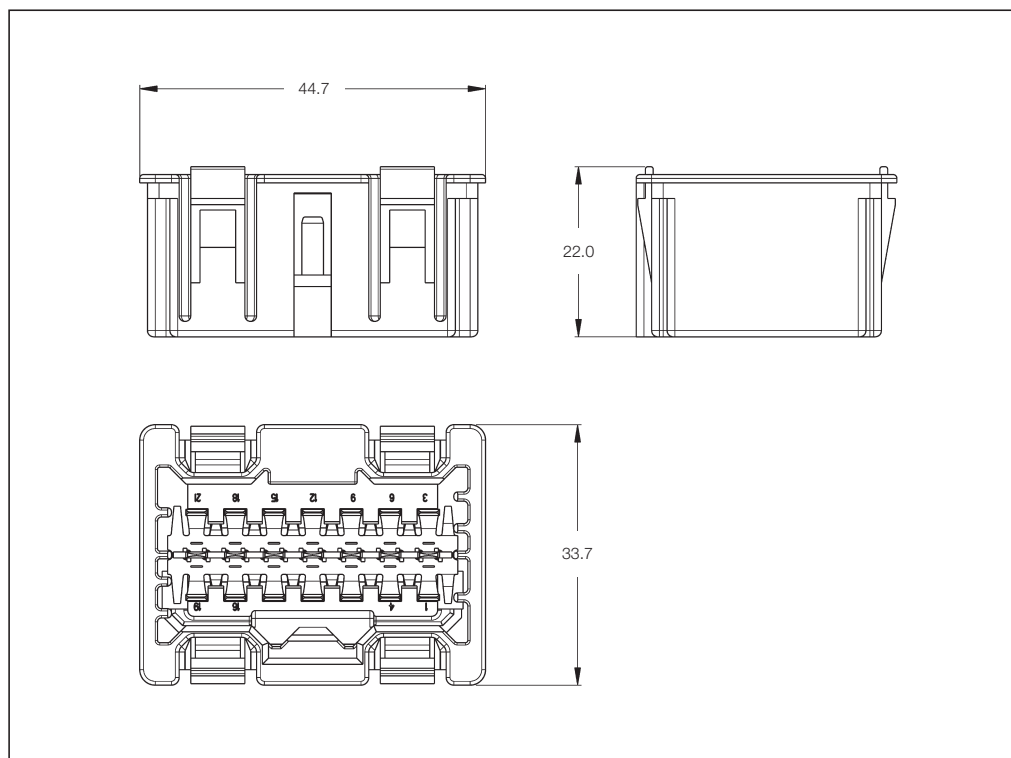
CuSn4, tin plated

##### Product Specification:

108-18879

##### Application Specification:

—



### Unsealed 2.8 mm Tab Housings for Potential Distribution for Wall or Panel Mounting

| No. of Positions | Keying Options | Housing Color | Part Numbers |                  |                           |                   |
|------------------|----------------|---------------|--------------|------------------|---------------------------|-------------------|
|                  |                |               | Tab Housing  | Package Quantity | Mating Receptacle Housing | Mating PCB Header |
| 21               | A              | Brown         | 1-1394765-1  | —                | 8-968975-1                | —                 |
|                  | B              | Natural       | 2-1394765-1  | —                | 7-968975-1                | —                 |
| 2 x 9            | B              | Natural       | 2-1394766-1  | —                | 7-968975-1                | —                 |
|                  | C              | Blue          | 3-1394766-1  | —                | 6-968975-1                | —                 |
| 2 x 9<br>120 Ω   | C              | Blue          | 3-1394766-2  | —                | 6-968975-1                | —                 |

### Unsealed 2.8 mm Tab Housings for Potential Distribution for Wall or Panel Mounting

#### Technical Features

##### No. of Positions:

21 Pos. on One Electrical Level

##### Housing Material:

PBT-GF10

##### Material and Finish:

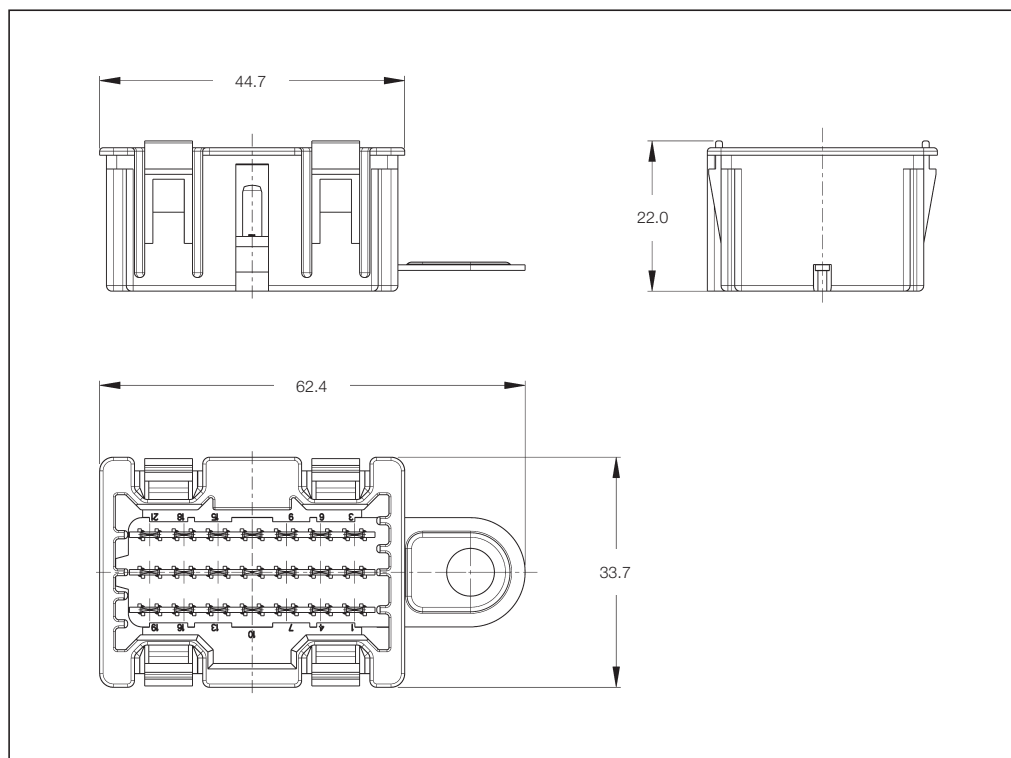
CuSn4, tin plated

##### Product Specification:

108-18879

##### Application Specification:

—



### Unsealed 2.8 mm Tab Housings for Potential Distribution for Wall or Panel Mounting

| No. of Positions | Keying Options | Housing Color | Part Numbers |                  |                           |                   |
|------------------|----------------|---------------|--------------|------------------|---------------------------|-------------------|
|                  |                |               | Tab Housing  | Package Quantity | Mating Receptacle Housing | Mating PCB Header |
| 21               | A              | Brown         | 1534188-1    | —                | 8-968975-1                | —                 |

### Unsealed 9.5 mm Tab Housings with Secondary Locking

#### Technical Features

##### No. of Positions:

2 Positions

##### Housing Material:

PA 66 GF13

##### Wire Size Range:

10.0 mm<sup>2</sup> FLK Max.

##### Extraction Tool:

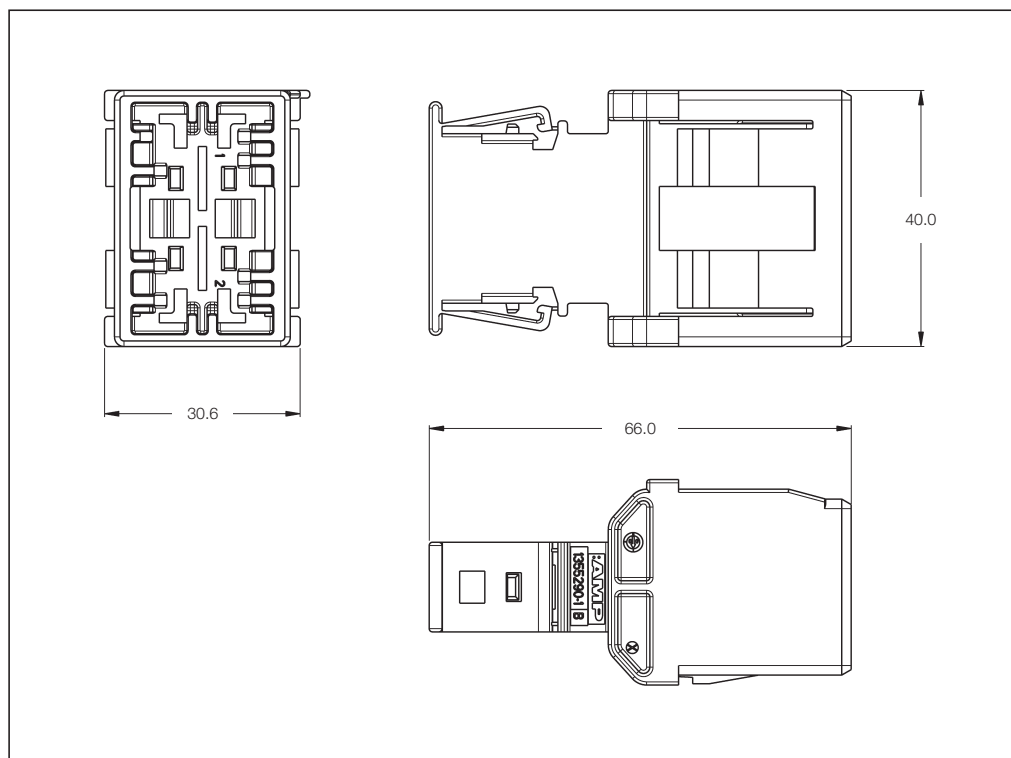
Part No. **1-1579007-7**

##### Product Specification:

—

##### Application Specification:

—



### Unsealed 9.5 mm Tab Housings with Secondary Locking

| No. of Positions | Keying Options | Housing Color | Part Numbers |                  |                           |                   |
|------------------|----------------|---------------|--------------|------------------|---------------------------|-------------------|
|                  |                |               | Tab Housing  | Package Quantity | Mating Receptacle Housing | Mating PCB Header |
| 2                | A              | Black         | 1355290-1    | —                | 1355289-1                 | —                 |
|                  | B              | Gray          | *)           | —                | 1355289-2                 | —                 |
|                  | C              | Blue          | *)           | —                | 1355289-3                 | —                 |
|                  | D              | Yellow/Green  | *)           | —                | 1355289-4                 | —                 |

\*) On request.

Unsealed 1.5 mm Housings – Printed Circuit Board Headers

**Technical Features**

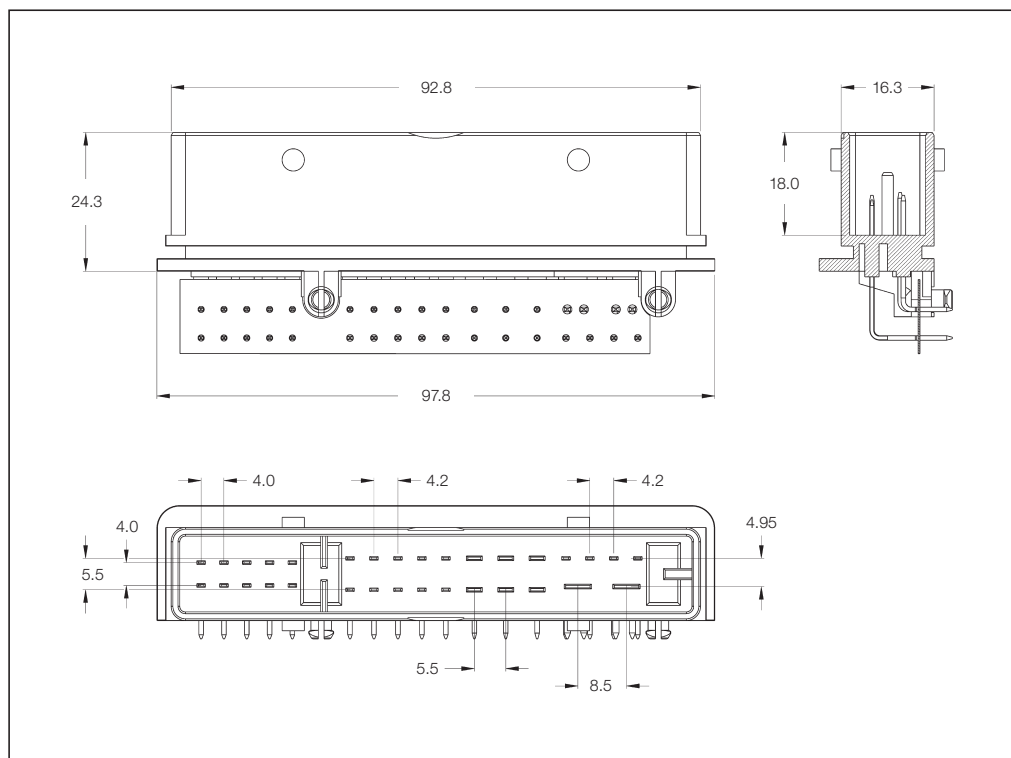
**No. of Positions:**  
 32 Positions

**Housing Material:**  
 PBT-GF20

**Material and Finish:**  
 CuSn4, tin plated

**Product Specification:**  
 108-18950

**Application Specification:**  
 114-18619-001



**32 Positions Printed Circuit Board Headers**

| No. of Positions | Keying Options | Housing Color | Part Numbers           |                           |
|------------------|----------------|---------------|------------------------|---------------------------|
|                  |                |               | PCB Header Right-Angle | Mating Receptacle Housing |
| 32               | A              | Black         | 1534046-1              | 1534180                   |
|                  |                |               |                        | 1534181                   |
|                  |                |               |                        | 1534399                   |

### Unsealed 1.5 mm Housings – Printed Circuit Board Headers

#### Technical Features

##### No. of Positions:

36 Positions

##### Housing Material:

PBT-GF20

##### Material and Finish:

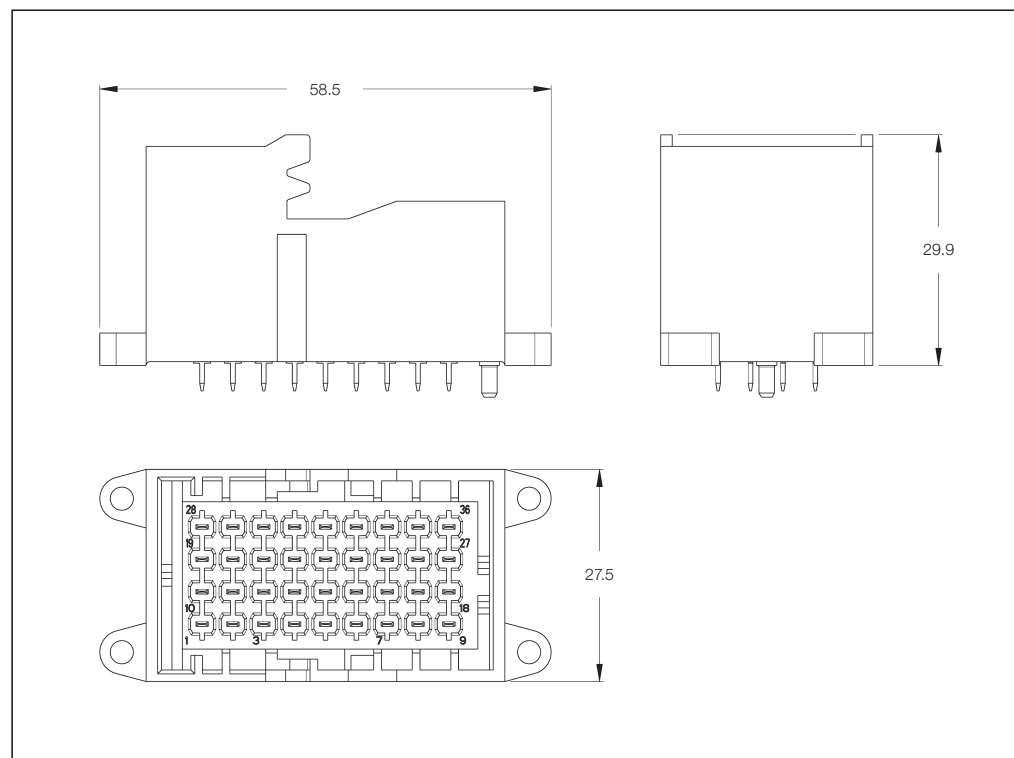
CuSn, tin plated

##### Product Specification:

108-18957

##### Application Specification:

—



### Unsealed 1.5 mm Housings – Printed Circuit Board Headers

| No. of Positions | Housing Color | Part Numbers        |                  |                           |
|------------------|---------------|---------------------|------------------|---------------------------|
|                  |               | Vertical PCB Header | Package Quantity | Mating Receptacle Housing |
| 36               | Brown         | 1-1670615-1         | —                | 1-1718485-1               |
|                  |               |                     |                  | + 1718489-1               |
|                  |               |                     |                  | + 1718490-1               |
|                  |               |                     |                  | + 1718490-2               |

Unsealed 1.5 mm Housings – Printed Circuit Board Headers

**Technical Features**

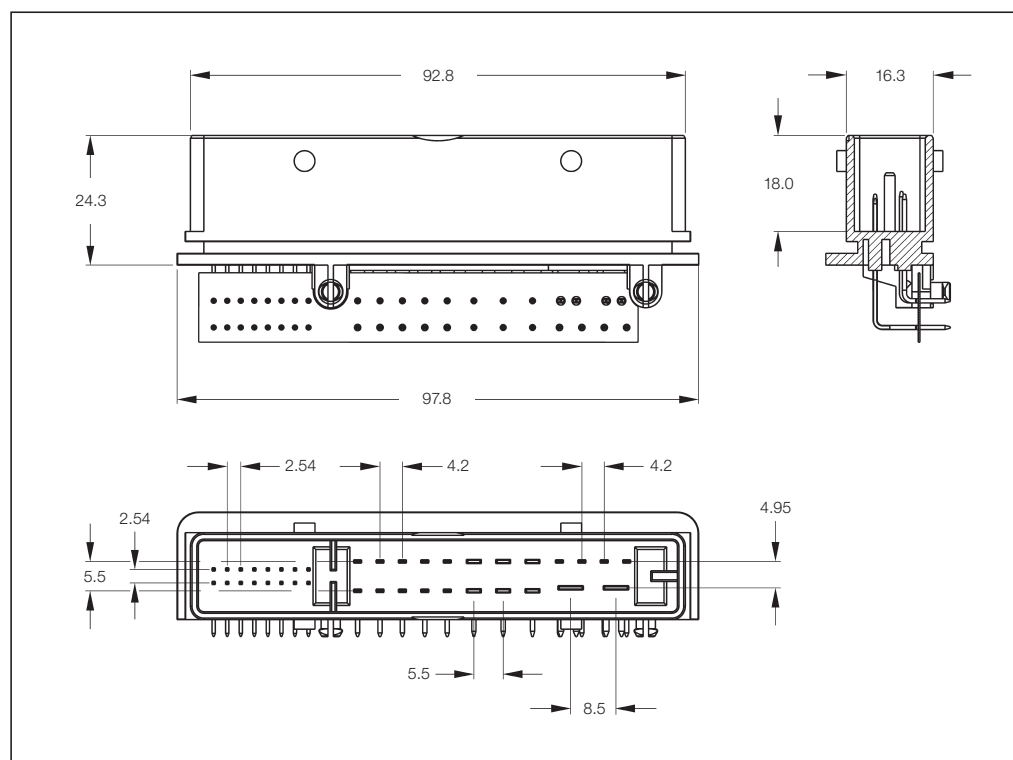
**No. of Positions:**  
 38 Positions

**Housing Material:**  
 PBT-GF20

**Material and Finish:**  
 CuSn4, tin plated  
 CuFe4, tin plated

**Product Specification:**  
 —

**Application Specification:**  
 —



**38 Positions Printed Circuit Board Headers**

| No. of Positions | Keying Options | Housing Color | Part Numbers           |                           |
|------------------|----------------|---------------|------------------------|---------------------------|
|                  |                |               | PCB Header Right-Angle | Mating Receptacle Housing |
| 38               | A              | Black         | 1534531-1              | 1534180                   |
|                  |                |               |                        | 1534579                   |
|                  |                |               |                        | 1534399                   |

### Unsealed Mixed 1.5 mm/2.8 mm Housings – Printed Circuit Board Headers

#### Technical Features

##### No. of Positions:

25 Positions

##### Housing Material:

PBT-GF20

##### Material and Finish:

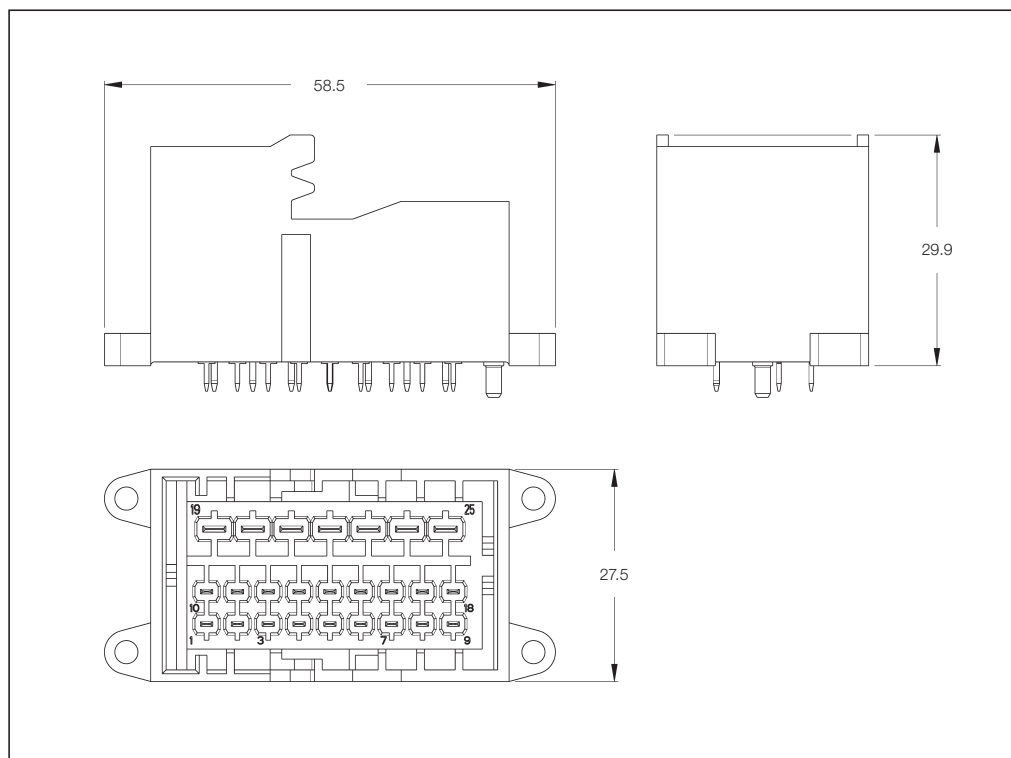
CuSn, tin plated

##### Product Specification:

108-18957

##### Application Specification:

—



### Unsealed Mixed Housings – Printed Circuit Board Headers

| No. of Positions | Housing Color | Part Numbers        |                  |                           |
|------------------|---------------|---------------------|------------------|---------------------------|
|                  |               | Vertical PCB Header | Package Quantity | Mating Receptacle Housing |
| 25               | Black         | 1-1670615-2         | —                | 1-1718485-1               |
|                  |               |                     |                  | + 1718488-1               |
|                  |               |                     |                  | + 1718489-1               |

### Unsealed 2.8 mm Housings – Vertical PC Board Headers

#### Technical Features

**No. of Positions:**  
6–21 Positions

**Housing Material:**  
PA 66 GF13

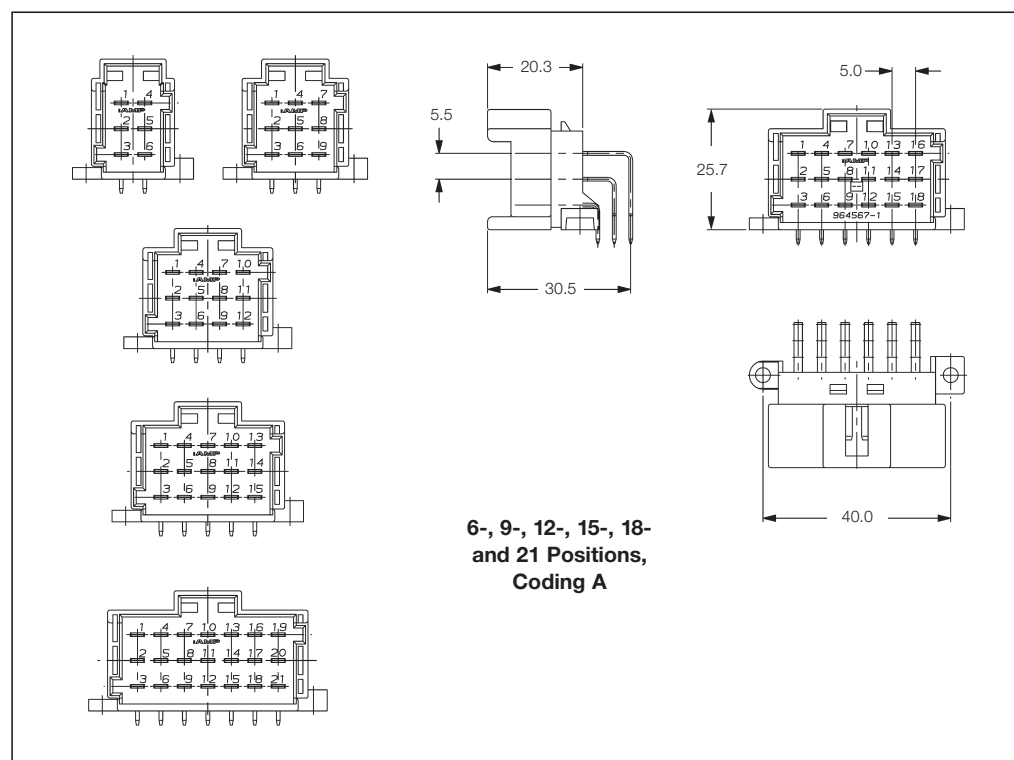
**Material and Finish Headers:**  
CuSn4, tin plated  
(silver plated on request)

**Wire Size Range:**  
2.5 mm<sup>2</sup> FLR Max.

**Product Group Drawing:**  
966140

**Product Specification:**  
108-18619-3

**Application Specification:**  
114-18051



### Unsealed 2.8 mm Housings – PC Board Headers

| No. of Positions               | Housing Color* | Part Numbers                                                                         |                  |                           |
|--------------------------------|----------------|--------------------------------------------------------------------------------------|------------------|---------------------------|
|                                |                | Mating Right-Angle PCB Header                                                        | Package Quantity | Mating Receptacle Housing |
| 6<br>9<br>12<br>15<br>18<br>21 | Black          | 966140-5<br>966140-4<br>966140-3**<br>966140-2<br>966140-1<br>966140-6**             | –                | 8-968970-1                |
|                                |                |                                                                                      |                  | 8-968971-1                |
|                                |                |                                                                                      |                  | 8-968972-1                |
|                                |                |                                                                                      |                  | 8-968973-1                |
|                                |                |                                                                                      |                  | 8-968974-1                |
|                                |                |                                                                                      |                  | 8-968975-1                |
|                                |                |                                                                                      |                  | 7-968970-1                |
|                                |                |                                                                                      |                  | 7-968971-1                |
|                                |                |                                                                                      |                  | 7-968972-1                |
|                                |                |                                                                                      |                  | 7-968973-1                |
| 6<br>9<br>12<br>15<br>18<br>21 | Black          | 9-966140-5<br>9-966140-4<br>9-966140-3**<br>9-966140-2<br>9-966140-1<br>9-966140-6** | –                | 7-968974-1                |
|                                |                |                                                                                      |                  | 7-968975-1                |
|                                |                |                                                                                      |                  | 6-968970-1                |
|                                |                |                                                                                      |                  | 6-968971-1                |
|                                |                |                                                                                      |                  | 6-968972-1                |
|                                |                |                                                                                      |                  | 6-968973-1                |
|                                |                |                                                                                      |                  | 6-968974-1                |
|                                |                |                                                                                      |                  | 6-968975-1                |
|                                |                |                                                                                      |                  | 5-968970-1                |
|                                |                |                                                                                      |                  | 5-968971-1                |
| 6<br>9<br>12<br>15<br>18<br>21 | Black          | 9-966140-5<br>9-966140-4<br>9-966140-3**<br>9-966140-2<br>9-966140-1<br>9-966140-6** | –                | 5-968972-1                |
|                                |                |                                                                                      |                  | 5-968973-1                |

\*) Silver plated on request.  
\*\*) Other codings available. See Product Group Drawing 966140.

### Unsealed 2.8 mm Housings – Printed Circuit Board Headers

#### Technical Features

##### No. of Positions:

18 Positions

##### Housing Material:

PA 66 GF13

##### Material and Finish:

Part No. **967116-1**

CuSn, tin plated

Part No. **967116-2**

Mating Area: Silver plated

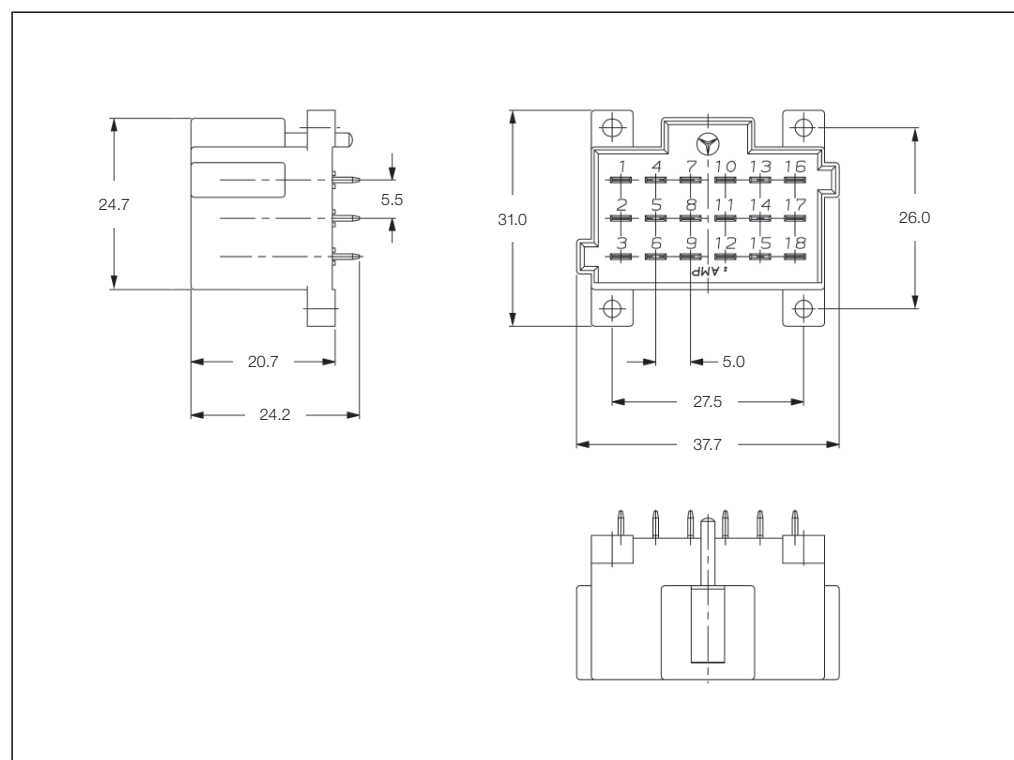
Solder Area: Tin plated

##### Product Specification:

108-18619-3

##### Application Specification:

—



### Unsealed 2.8 mm Housings – Printed Circuit Board Headers

| No. of Positions | Housing Color | Part Numbers        |                  |                           |
|------------------|---------------|---------------------|------------------|---------------------------|
|                  |               | Vertical PCB Header | Package Quantity | Mating Receptacle Housing |
| 18               | Black         | 967116-1            | —                | —                         |
|                  |               | 967116-2            |                  |                           |

### Sealed AMP MCP 2.8 Receptacle Housings

#### Technical Features

##### No. of Positions:

2 Positions

##### Housing Material:

PA 66 GF13

##### Wire Size Range:

2.5 mm<sup>2</sup> FLR Max.

##### Extraction Tool:

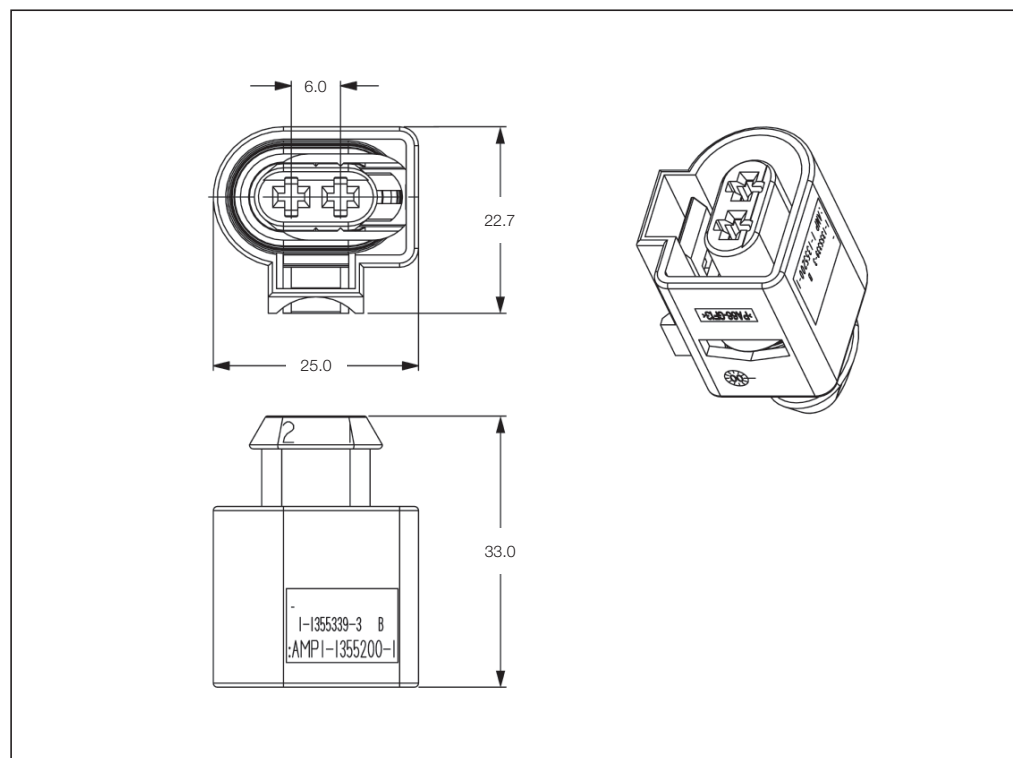
Part No. **1579007-1**  
dependent on the contact

##### Product Specification:

108-18699-1 (Rec. Housing)

##### Application Specification:

114-18148-1 (Rec. Housing)



#### Sealed Receptacle Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |                    |                   |
|------------------|----------------|---------------|--------------------|------------------|--------------------|-------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Mating Tab Housing | Mating PCB Header |
| 2                | A              | Black         | 1-1355200-1        | —                | 1-966867-1         | —                 |
|                  | B              | Natural       | 2-1355200-1        | —                | 1-966867-2         | —                 |
|                  |                | Black         | 2-1355200-2        | —                | 1-966867-2         | —                 |

### Sealed Receptacle Housings for AMP MCP 2.8 mm and Sensor Flat Contacts

#### Technical Features

##### No. of Positions:

2 Positions

##### Housing Material:

PA 66 GF13

##### Wire Size Range:

2.5 mm<sup>2</sup> FLR Max.

##### Extraction Tool:

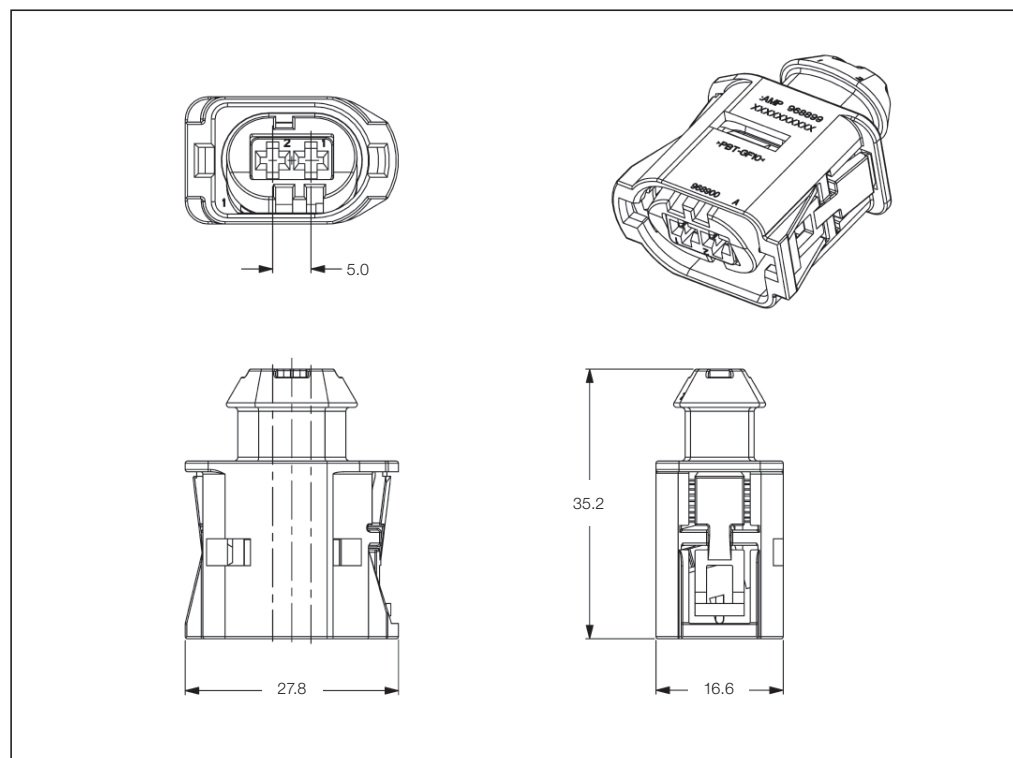
Part No. **1-1579007-2**

##### Product Specification:

108-18519

##### Application Specification:

—



### Sealed Receptacle Housings for AMP MCP 2.8 and Sensor Flat Contacts

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |                    |                   |
|------------------|----------------|---------------|--------------------|------------------|--------------------|-------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Mating Tab Housing | Mating PCB Header |
| 2                | A              | Black         | 968899-1           | —                | —                  | —                 |
|                  | B              | Gray          | 968899-2           | —                | —                  | —                 |
|                  | C              | Natural       | 968899-3           | —                | —                  | —                 |
|                  | Z              | Blue          | 968899-4           | —                | —                  | —                 |

### Sealed Receptacle Housings for AMP MCP 2.8 Contacts

#### Technical Features

##### No. of Positions:

2, 3, 4 and 5 Positions

##### Housing Material:

PA 66 GF30

##### Wire Size Range:

2.5 mm<sup>2</sup> FLR Max.

##### Extraction Tool:

Part No. **929039-1**

##### Interface Drawing:

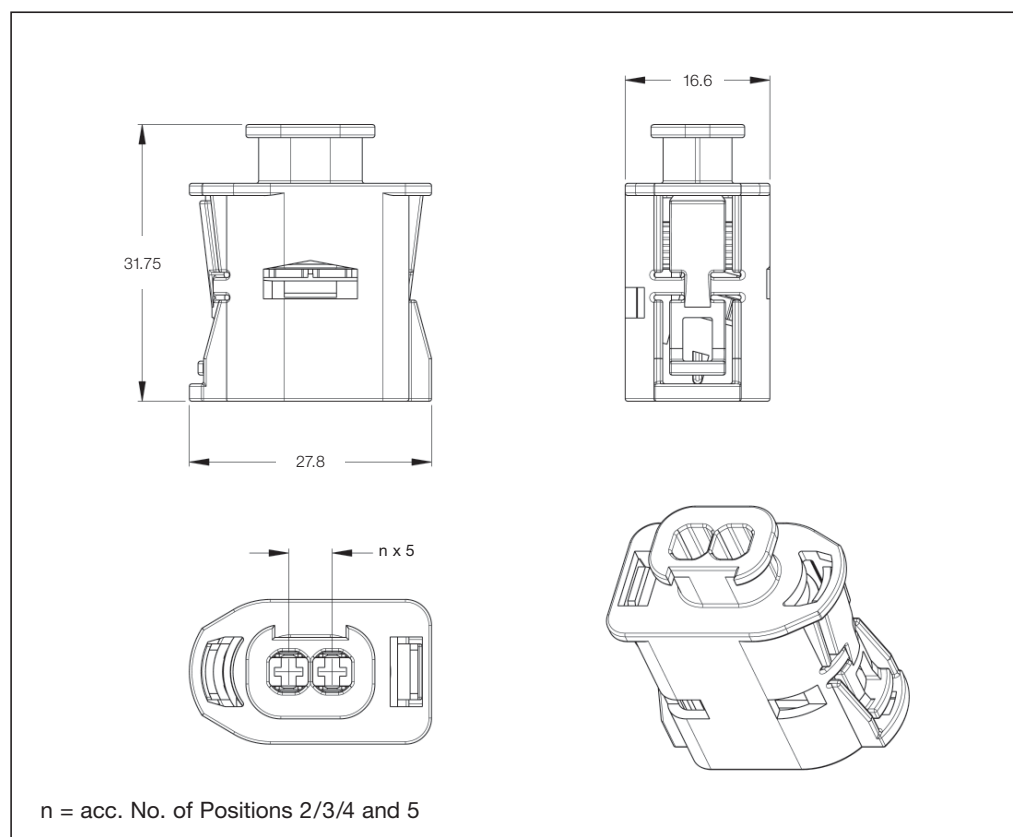
114-18251-011

##### Product Specification:

108-18981

##### Application Specification:

—



#### Sealed Receptacle Housings

| No. of Positions | Keying Options* | Housing Color* | Part Numbers       |                  |                    |                   |
|------------------|-----------------|----------------|--------------------|------------------|--------------------|-------------------|
|                  |                 |                | Receptacle Housing | Package Quantity | Mating Tab Housing | Mating PCB Header |
| 2                | A               | Black          | 1-1718626-1        | —                |                    |                   |
| 3                | A               | Black          | 1-1718627-1        | —                |                    |                   |
| 4                | A               | Black          | 1-1718628-1        | —                |                    |                   |
| 5                | A               | Black          | 1-1718629-1        | —                |                    |                   |

\*) Other Colors and Codings on request.

**Sealed AMP MCP 9.5 Receptacle Housings**

**Technical Features**

**No. of Positions:**

2 Positions

**Housing Material:**

PA 66 GF13

**Wire Size Range:**

16.0 mm<sup>2</sup> FLK Max.

**Extraction Tool:**

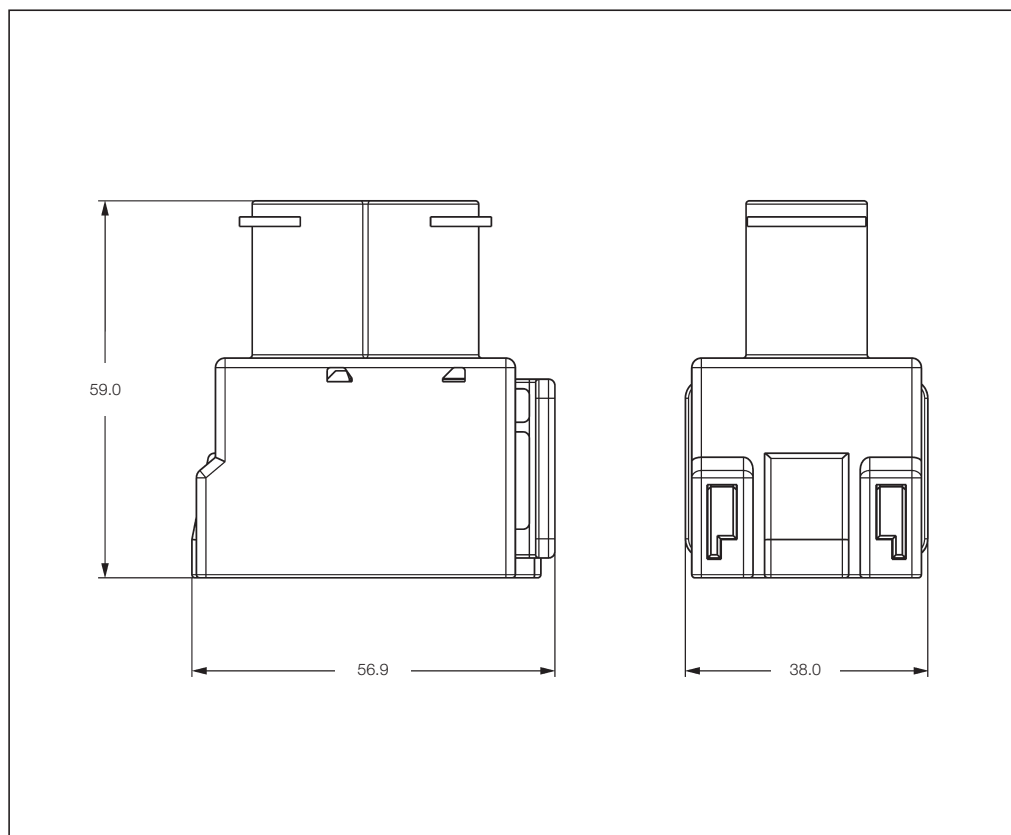
Part No. **539971-1**

**Product Specification:**

108-18809

**Application Specification:**

114-18501



**Sealed Receptacle Housings**

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |                                               |                   |
|------------------|----------------|---------------|--------------------|------------------|-----------------------------------------------|-------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Mating Tab Housing                            | Mating PCB Header |
| 2                | —              | Black         | 1355328-1          | —                | 1394026-2                                     | —                 |
|                  |                |               |                    |                  | 1394026-1<br>(with Sealing for Wall Mounting) |                   |

### Sealed Receptacle Housings for AMP MCP 2.8 and Sensor Flat Contacts

#### Technical Features

##### No. of Positions:

3 Positions

##### Housing Material:

PA 66 GF13

##### Wire Size Range:

2.5 mm<sup>2</sup> FLR Max.

##### Extraction Tool:

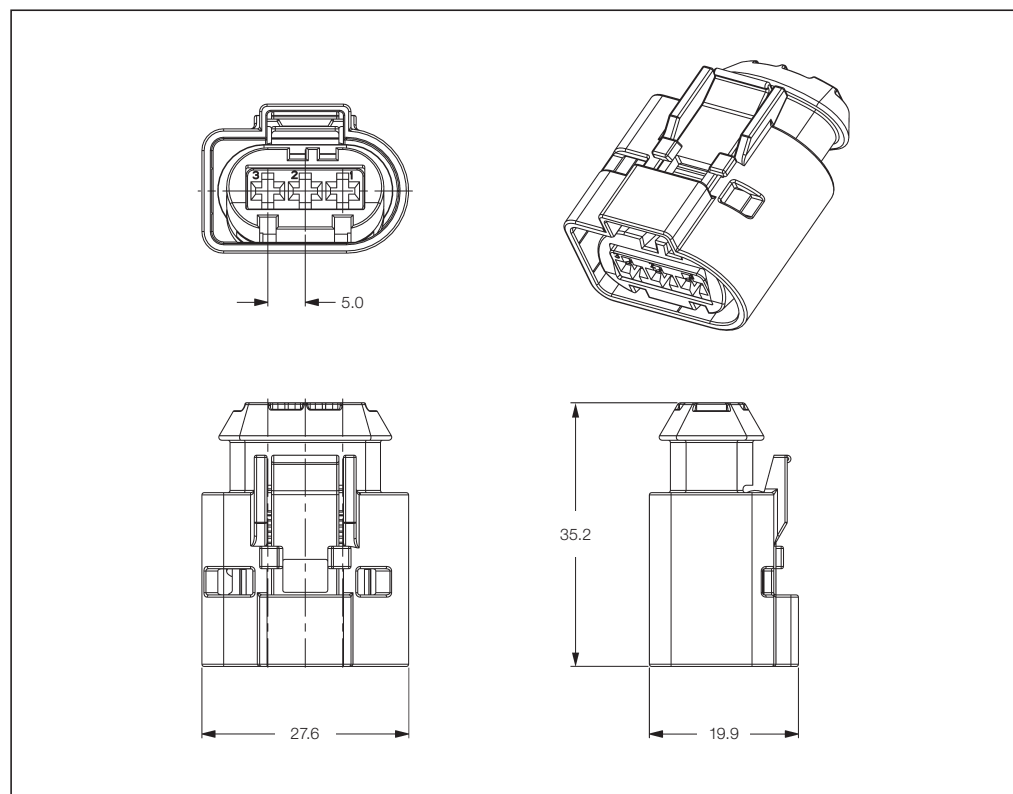
Part No. **1-1579007-2**

##### Product Specification:

108-18519

##### Application Specification:

—



### Sealed Receptacle Housings for AMP MCP 2.8 and Sensor Flat Contacts

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |                    |                   |
|------------------|----------------|---------------|--------------------|------------------|--------------------|-------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Mating Tab Housing | Mating PCB Header |
| 3                | A              | Black         | 968925-1           | —                | —                  | —                 |
|                  | B              | Gray          | 968925-2           | —                | —                  | —                 |
|                  | C              | Natural       | 968925-3           | —                | —                  | —                 |
|                  | Z              | Blue          | 968925-4           | —                | —                  | —                 |

### Sealed AMP MCP 2.8 Receptacle Housings

#### Technical Features

##### No. of Positions:

4–6 Positions

##### Housing Material:

PBT-GF

##### Wire Size Range:

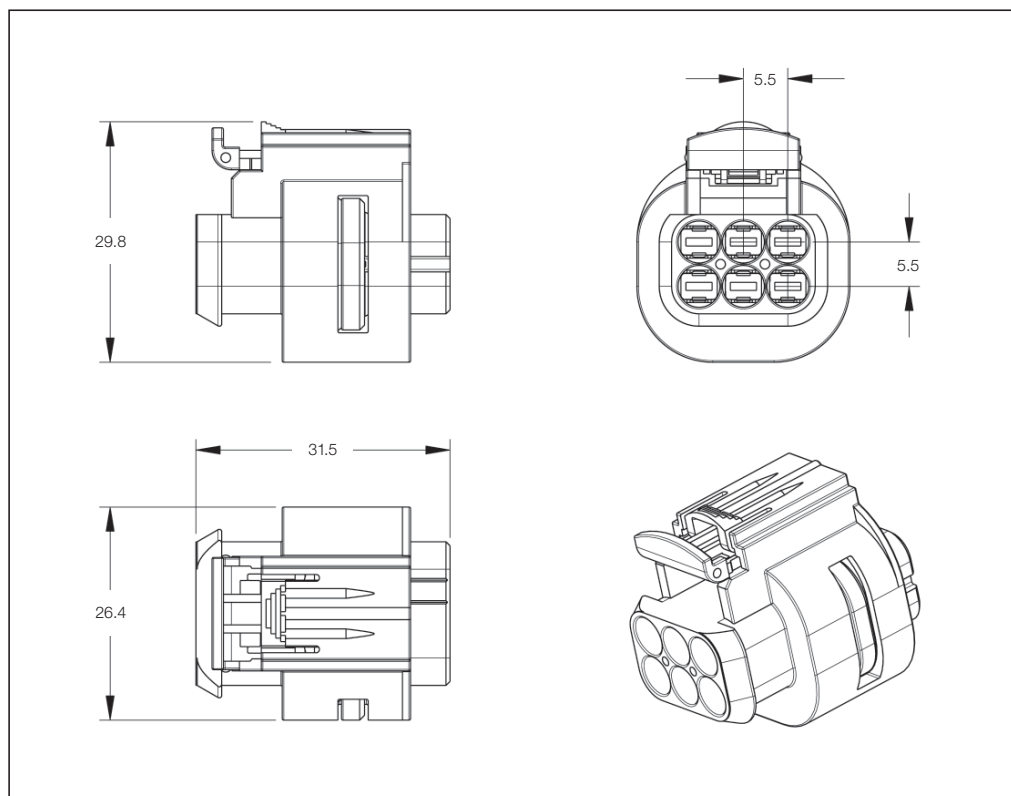
2.5 mm<sup>2</sup> FLR Max.

##### Product Specification:

108-20274

##### Application Specification:

—



#### Sealed Receptacle Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |       |                    |                   |
|------------------|----------------|---------------|--------------------|------------------|-------|--------------------|-------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Cover | Mating Tab Housing | Mating PCB Header |
| 6                | A              | Gray          | 1745078-1          | 400              | —     | —                  | —                 |
| 4                | A              | Black         | 1745078-2          | 400              | —     | —                  | —                 |

### Sealed AMP MCP 2.8 Receptacle Housings

#### Technical Features

##### No. of Positions:

9 Positions

##### Housing Material:

PBT-GF

##### Wire Size Range:

2.5 mm<sup>2</sup> FLR Max.

##### Product Specification:

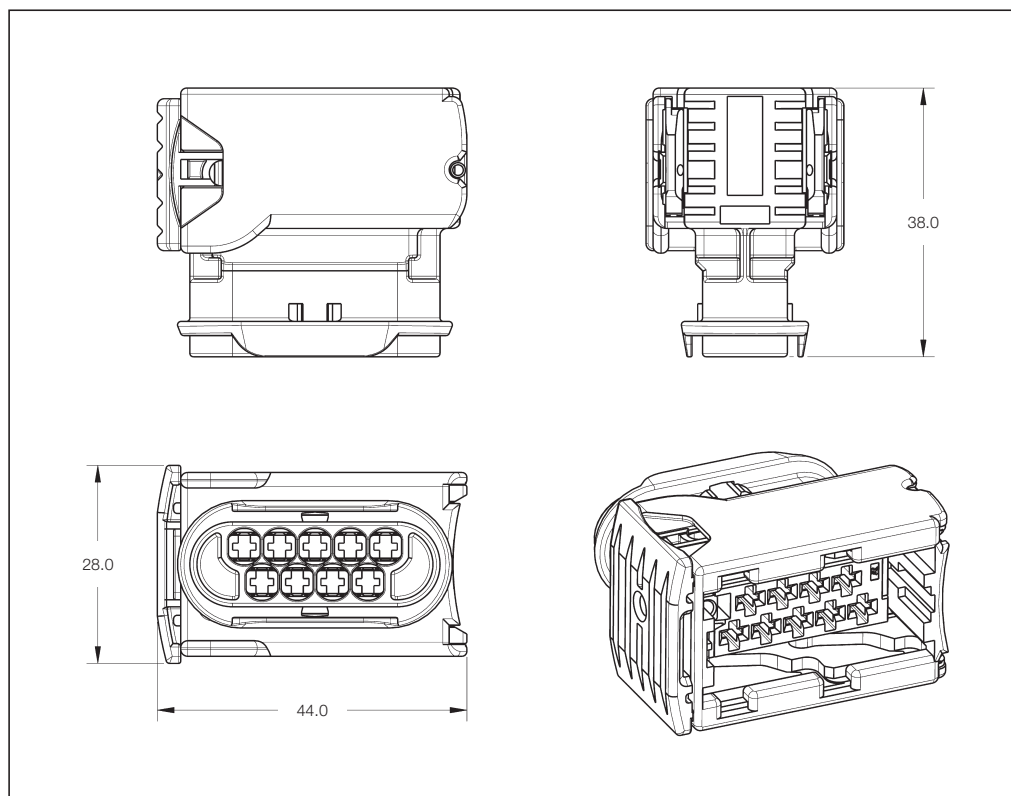
108-15403

##### Application Specification:

411-15726

##### Interface Specification:

1801318



#### Sealed Receptacle Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |          |                    |                   |
|------------------|----------------|---------------|--------------------|------------------|----------|--------------------|-------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Cover    | Mating Tab Housing | Mating PCB Header |
| 9                | –              | Black         | 1801286-1          | –                | 953717-1 | 1534238-1          | –                 |
|                  |                | Gray          | 1801286-3          | –                |          |                    |                   |
|                  |                | Purple        | 1801286-6          | –                |          |                    |                   |

### Sealed AMP MCP 2.8 Receptacle Housings

#### Technical Features

##### No. of Positions:

15 Positions

##### Housing Material:

PBT-GF

##### Wire Size Range:

2.5 mm<sup>2</sup> FLR Max.

##### Product Specification:

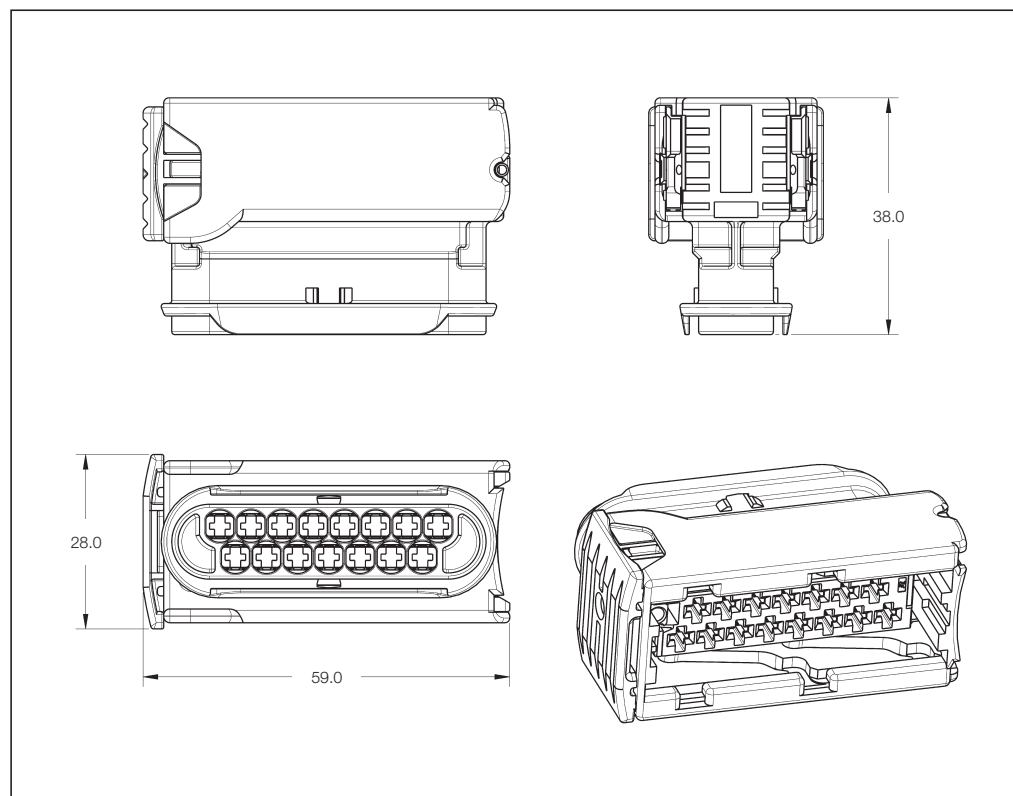
108-15403

##### Application Specification:

411-15726

##### Interface Specification:

1801287



#### Sealed Receptacle Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |       |                    |                   |
|------------------|----------------|---------------|--------------------|------------------|-------|--------------------|-------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Cover | Mating Tab Housing | Mating PCB Header |
| 15               | –              | Black         | 1801326-1          | –                | –     | –                  | –                 |
|                  |                | Gray          | 1801326-3          | –                |       |                    |                   |
|                  |                | Green         | 1801326-4          | –                |       |                    |                   |
|                  |                | Brown         | 1801326-5          | –                |       |                    |                   |
|                  |                | Purple        | 1801326-6          | –                |       |                    |                   |

### Sealed AMP MCP 1.5K/2.8 Receptacle Housings

#### Technical Features

##### No. of Positions:

12 Positions

##### Housing Material:

PA 66 GF

##### Wire Size Range:

4x 2.5 mm<sup>2</sup> FLR Max.

8x 1.0 mm<sup>2</sup> FLR Max.

##### Extraction Tools:

Part No. **1579007-1**

Part No. **1-1579007-1**

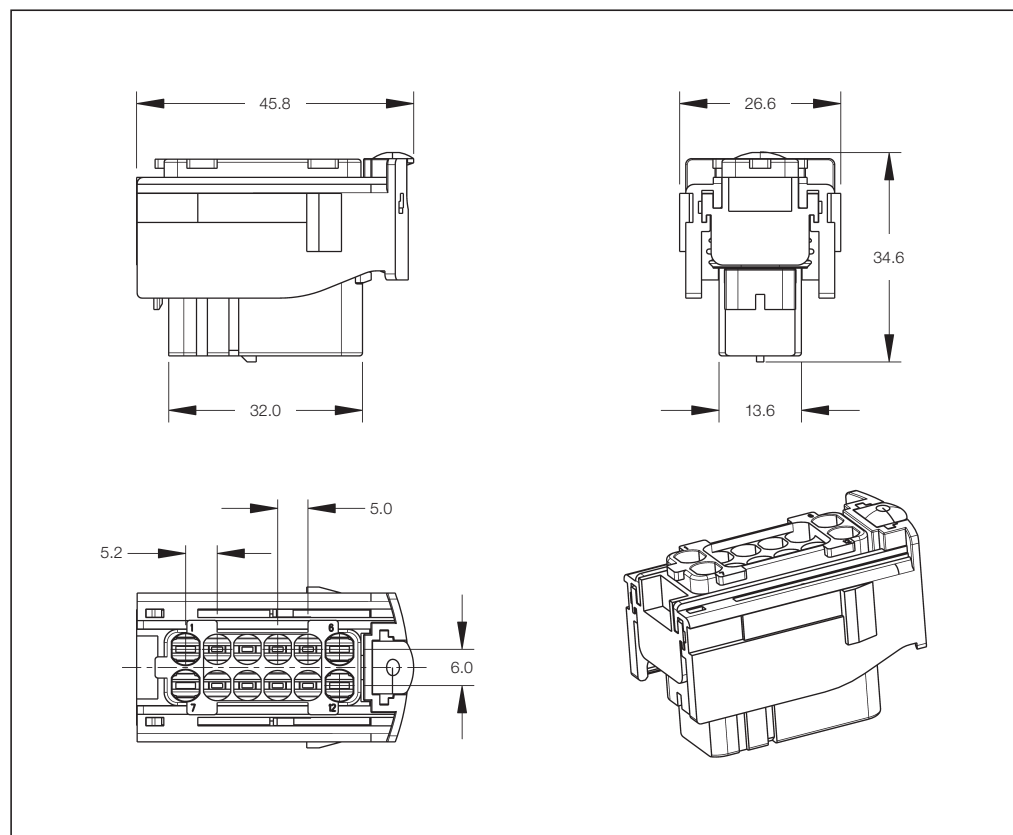
dependent on the contact

##### Product Specification:

108-20242

##### Application Specification:

411-20073



#### Sealed Mixed Receptacle Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |                                  |                   |
|------------------|----------------|---------------|--------------------|------------------|----------------------------------|-------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Mating Tab Housing               | Mating PCB Header |
| 12               | A with CPA*    | Black         | 284848-1           | 500              | 284844-1 & 284844-3<br>1745045-1 | –                 |
|                  | A without CPA  | Black         | 284848-3           | 500              | 284844-1 & 284844-3              | –                 |
|                  | B with CPA*    | Gray          | 284848-2           | 500              | 284844-2                         | –                 |
|                  | B without CPA  | Gray          | 284848-4           | 500              | 284844-4                         | –                 |

\*) CPA = Connector Position Assurance.

### Sealed AMP MCP 2.8 Receptacle Housings

#### Technical Features

##### No. of Positions:

10 Positions

##### Housing Material:

PBT-GF

##### Wire Size Range:

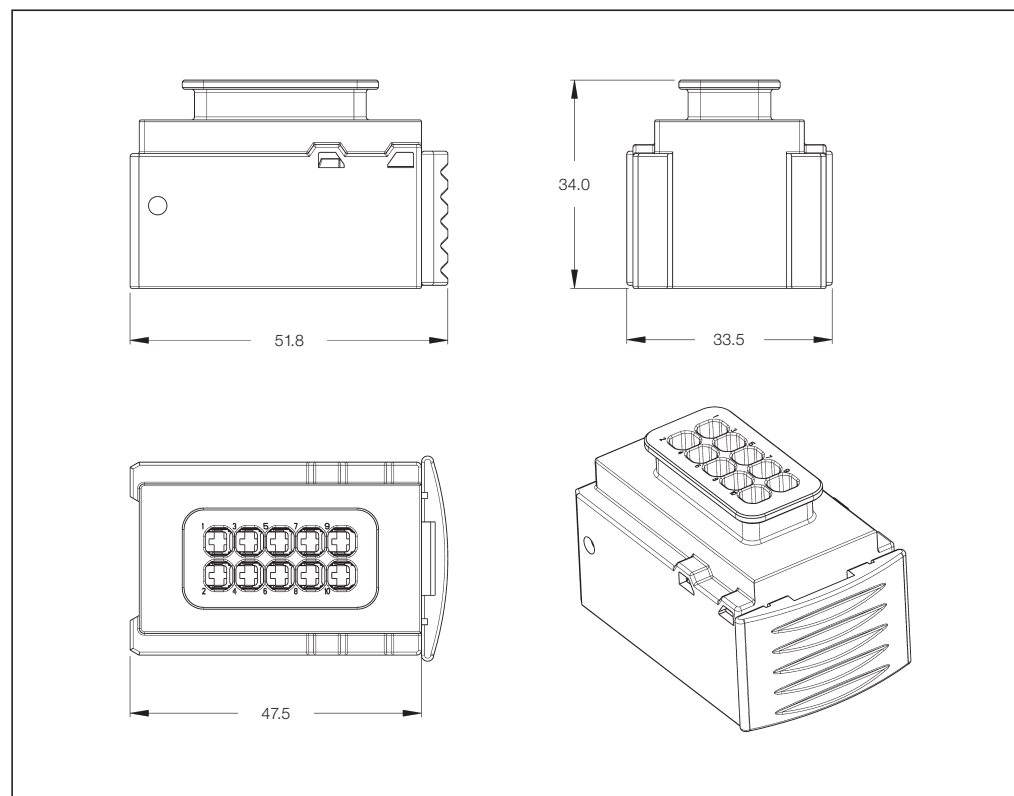
2.5 mm<sup>2</sup> FLR Max.

##### Product Specification:

108-18923

##### Application Specification:

114-18631



#### Sealed Receptacle Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |           |                    |                   |
|------------------|----------------|---------------|--------------------|------------------|-----------|--------------------|-------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Cover     | Mating Tab Housing | Mating PCB Header |
| 10               | A              | Black         | 1718156-1          | –                | 1718495-1 | –                  | –                 |
|                  | B              | Gray          | 1718156-2          | –                |           |                    |                   |

### Sealed AMP MCP 2.8 Receptacle Housings

#### Technical Features

##### No. of Positions:

16 Positions

##### Housing Material:

PBT-GF

##### Wire Size Range:

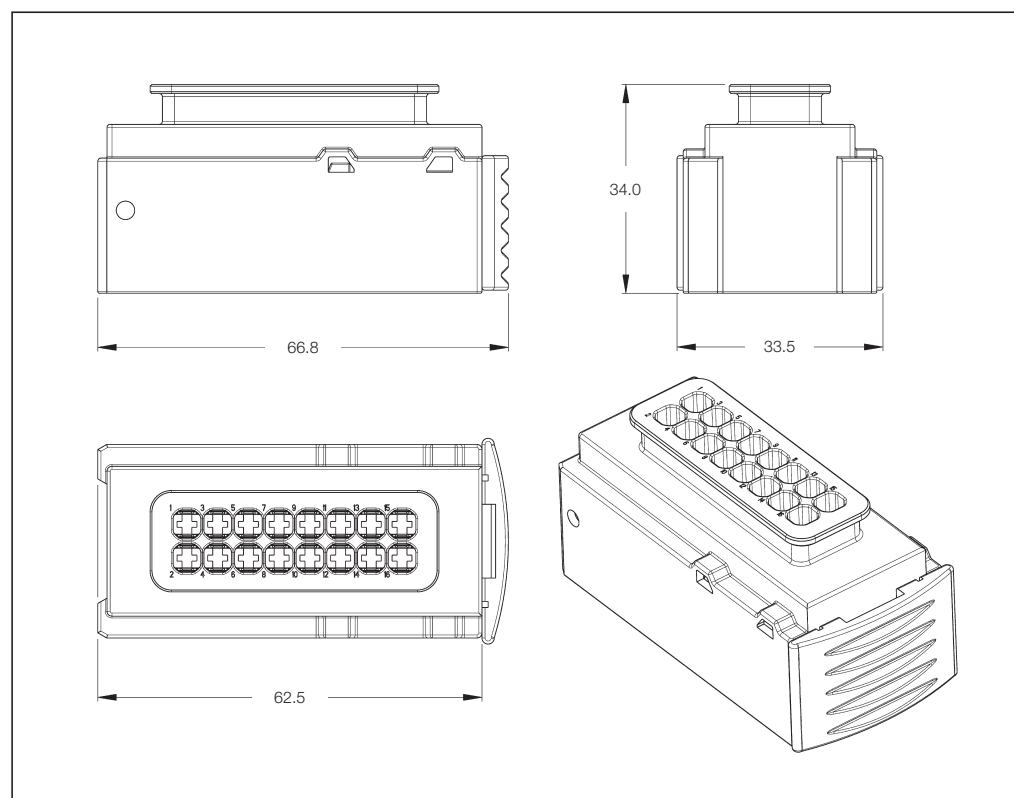
2.5 mm<sup>2</sup> FLR Max.

##### Product Specification:

108-18923

##### Application Specification:

114-18631



#### Sealed Receptacle Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |           |                    |                   |
|------------------|----------------|---------------|--------------------|------------------|-----------|--------------------|-------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Cover     | Mating Tab Housing | Mating PCB Header |
| 16               | A              | Black         | 1718149-1          | –                | 1718155-1 | –                  | –                 |
|                  | B              | Gray          | 1718149-2          | –                |           |                    |                   |

### Sealed AMP MCP 1.5K/2.8 Receptacle Housings

#### Technical Features

##### No. of Positions:

20–24 Positions

##### Housing Material:

PA 66 GF

##### Wire Size Range:

8x 2.5 mm<sup>2</sup> FLR Max.

16x 1.0 mm<sup>2</sup> FLR Max.

##### Extraction Tools:

Part No. **1579007-1**

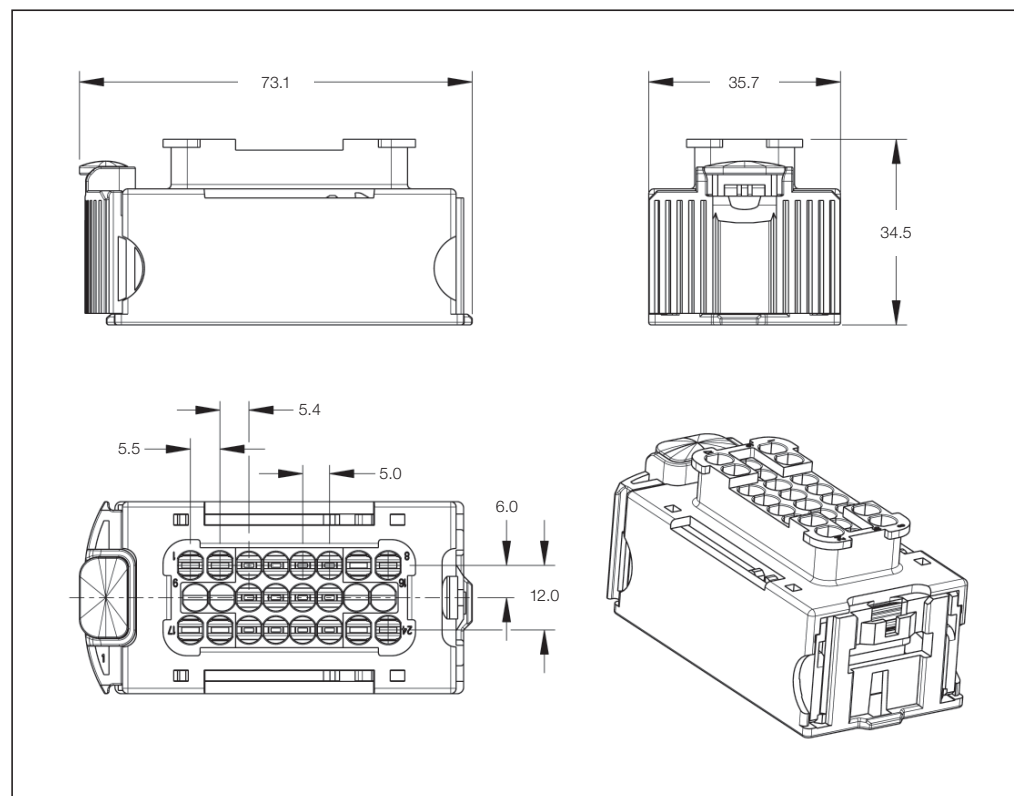
Part No. **1-1579007-1**  
dependent on the contact

##### Product Specification:

108-20262

##### Application Specification:

411-20100



#### Sealed Mixed Receptacle Housings

| No. of Positions | Keying Options  | Housing Color | Part Numbers       |                  |       |                    |                   |
|------------------|-----------------|---------------|--------------------|------------------|-------|--------------------|-------------------|
|                  |                 |               | Receptacle Housing | Package Quantity | Cover | Mating Tab Housing | Mating PCB Header |
| 20               | A (Slide Right) | Black         | 1745043-1          | 320              | –     | 1745044-1          | –                 |
|                  | A (Slide Left)  | Black         | 1745043-2          | 320              | –     | –                  | –                 |
| 24               | A (Slide Right) | Gray          | 1745043-3          | 320              | –     | 1745044-2          | –                 |
|                  | A (Slide Left)  | Gray          | 1745043-4          | 320              | –     | –                  | –                 |

### Sealed AMP MCP 2.8 Receptacle Housings

#### Technical Features

**No. of Positions:**  
15 Positions

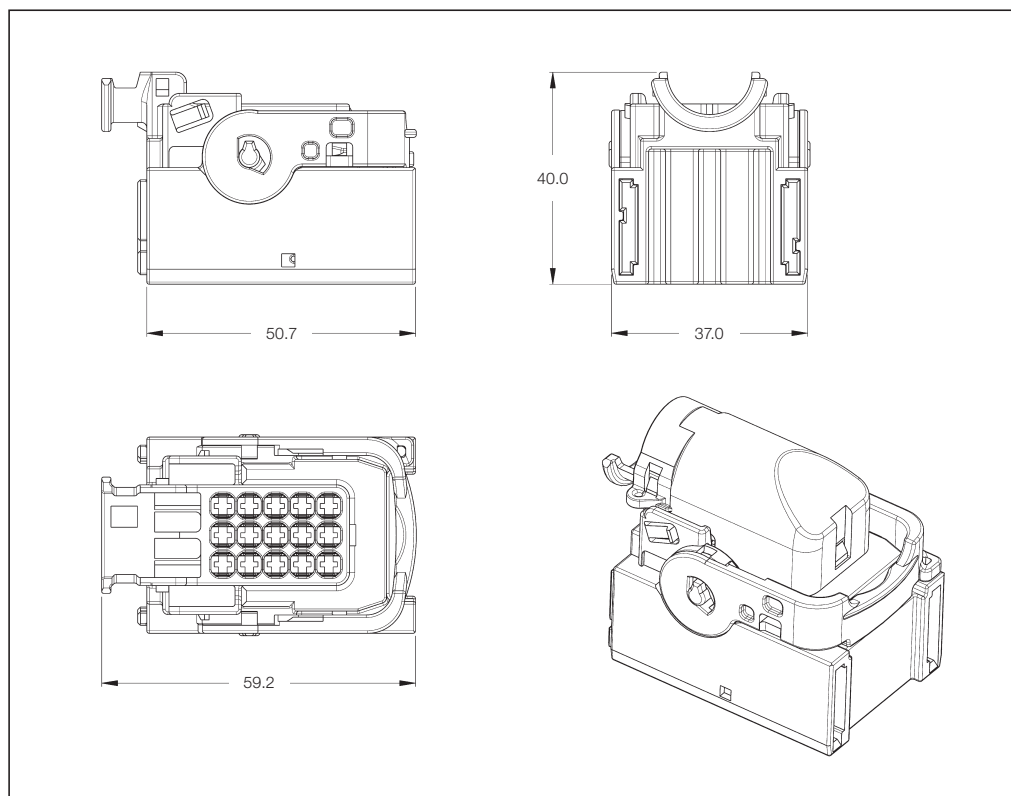
**Housing Material:**  
PBT-GF20

**Extraction Tool:**  
Part No. **1579007-1**

**Wire Size Range:**  
2.5 mm<sup>2</sup> FLR Max.  
AWG 12 TXL Max.

**Product Specification:**  
108-18696

**Application Specification:**  
114-18376



#### Sealed Receptacle Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |                    |                   |
|------------------|----------------|---------------|--------------------|------------------|--------------------|-------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Mating Tab Housing | Mating PCB Header |
| 15               | A              | Black         | 1-1534126-1        | —                | 9-1394049-1        | 1703799-1         |
|                  | B              | Natural       | 2-1534126-1        | —                |                    | *)                |
|                  | C              | Blue          | 3-1534126-1        | —                |                    | *)                |

\*) On request.

### Sealed AMP MCP 1.5K/2.8/6.3 Receptacle Housings

#### Technical Features

##### No. of Positions:

22 Positions

##### Housing Material:

PBT-GF30

##### Wire Size Range:

16x AMP MCP 1.5K  
1.5 mm<sup>2</sup> FLR Max.

6x AMP MCP 2.8  
2.5 mm<sup>2</sup> FLR Max.  
AWG 12 TXL Max.

##### Extraction Tools:

Part No. **1579007-1**

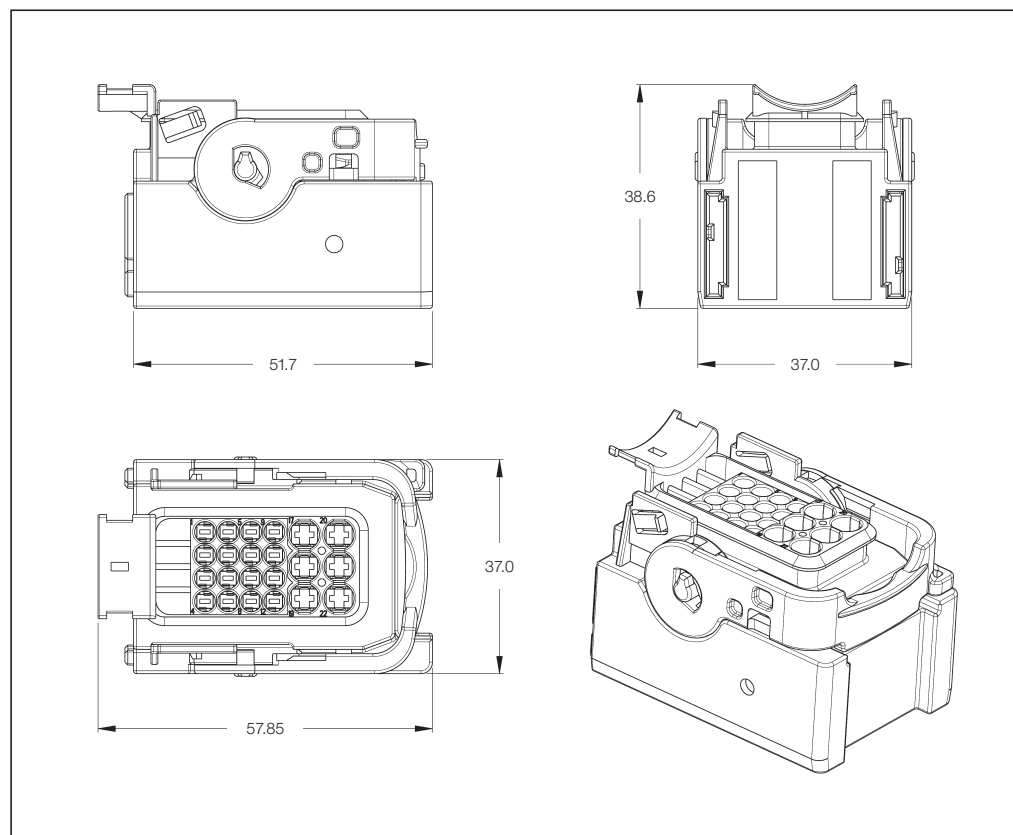
Part No. **1-1579007-1**  
dependent on the contact

##### Product Specification:

108-94025

##### Application Specification:

114-18993



### Sealed Mixed Receptacle Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |           |                    |
|------------------|----------------|---------------|--------------------|------------------|-----------|--------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Cover     | Mating Tab Housing |
| 18               | A              | Black         | 1-1823440-2        | —                | *)        | 1-1823449-2        |
|                  | B              | Gray          | *)                 | —                |           | *)                 |
|                  | C              | Blue          | *)                 | —                |           | *)                 |
|                  | D              | Green         | *)                 | —                |           | *)                 |
| 22               | A              | Black         | 1-1823440-3        | —                | 2112452-1 | *)                 |
|                  | B              | Gray          | 2-1823440-3        | —                |           | *)                 |
|                  | C              | Blue          | 3-1823440-3        | —                |           | *)                 |
|                  | D              | Green         | 4-1823440-3        | —                |           | *)                 |

\*) On request.

### Sealed AMP MCP 2.8 Receptacle Housings

#### Technical Features

##### No. of Positions:

21 Positions

##### Housing Material:

PBT-GF20

##### Wire Size Range:

2.5 mm<sup>2</sup> FLR Max.  
AWG 12 TXL Max.

##### Extraction Tool:

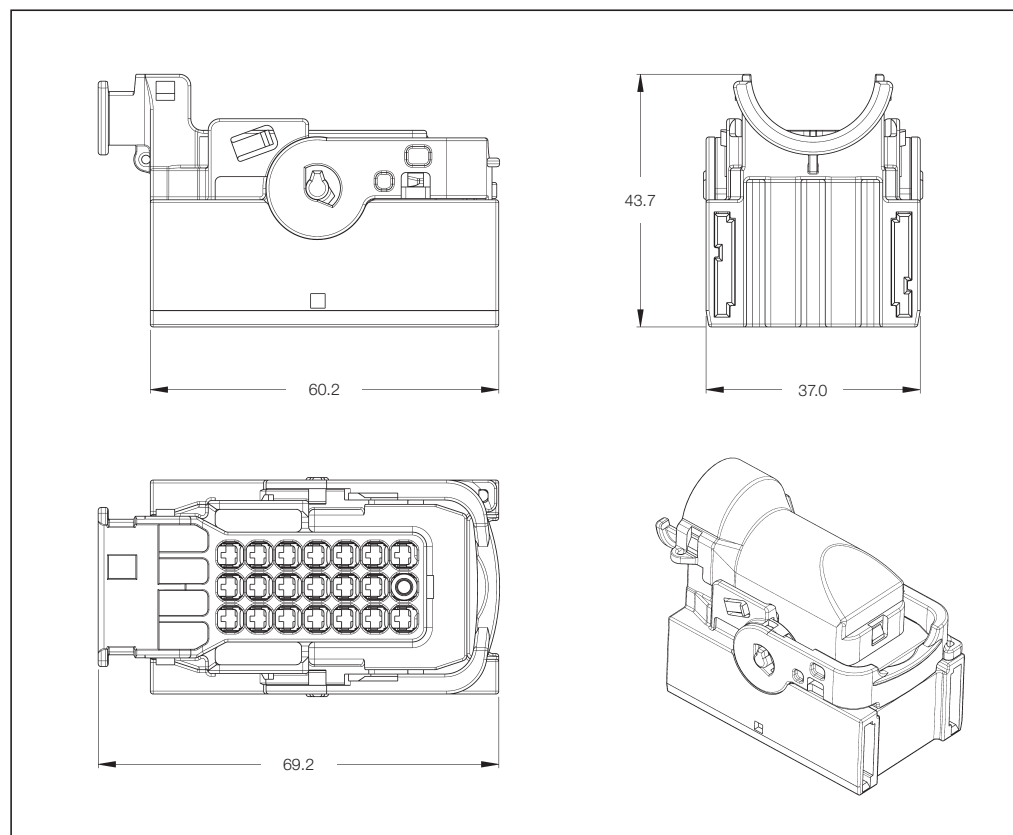
Part No. **1579007-1**

##### Product Specification:

108-18696

##### Application Specification:

114-18376



#### Sealed Receptacle Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |             |                                |                            |
|------------------|----------------|---------------|--------------------|------------------|-------------|--------------------------------|----------------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Cover       | Mating Tab Housing with Flange | Mating Vertical PCB Header |
| 21               | A              | Black         | 1-1534127-1        | –                | 9-1394050-1 | 1-2112162-1                    | 1534238-1                  |
|                  | B              | Natural       | 2-1534127-1        | –                |             | *)                             | *)                         |
|                  | C              | Blue          | 3-1534127-1        | –                |             | *)                             | *)                         |
|                  | D              | Violet        | 4-1534127-1        | –                |             | *)                             | *)                         |

\*) On request.

### Sealed AMP MCP 1.5K/2.8/6.3 Receptacle Housings

#### Technical Features

##### No. of Positions:

29 Positions

##### Housing Material:

PBT-GF30

##### Wire Size Range:

26x AMP MCP 1.5K

1.5 mm<sup>2</sup> FLR Max.

2x AMP MCP 2.8

2.5 mm<sup>2</sup> FLR Max.

1x AMP MCP 4.8K/6.3

6.0 mm<sup>2</sup> FLR Max.

##### Extraction Tools:

Part No. **1579007-1**

Part No. **1-1579007-1**

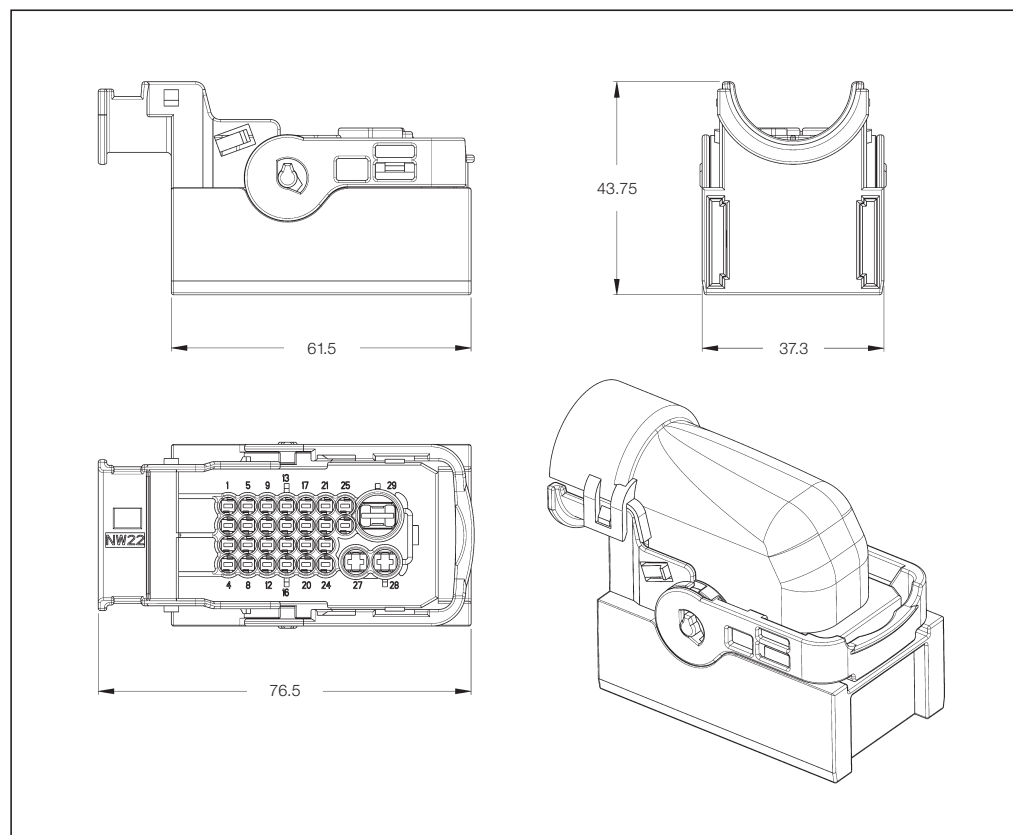
Part No. **1-1579007-3**  
dependent on the contact

##### Product Specification:

108-94215

##### Application Specification:

114-94011



### Sealed Mixed Receptacle Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |       |                    |
|------------------|----------------|---------------|--------------------|------------------|-------|--------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Cover | Mating Tab Housing |
| 29               | A              | Black         | 1-1823402-1        | —                | *)    | *)                 |
|                  | B              | Gray          | 2-1823402-1        | —                |       |                    |
|                  | C              | Blue          | 3-1823402-1        | —                |       |                    |
|                  | D              | Green         | *)                 | —                |       |                    |

\*) On request.

### Sealed AMP MCP 1.5K/2.8/6.3 Receptacle Housings

#### Technical Features

##### No. of Positions:

26 Positions

##### Housing Material:

PBT-GF30

##### Wire Size Range:

12x AMP MCP 1.5K

1.5 mm<sup>2</sup> FLR Max.

12x AMP MCP 2.8

2.5 mm<sup>2</sup> FLR Max.

2x AMP MCP 4.8K/6.3

6.0 mm<sup>2</sup> FLR Max.

##### Extraction Tools:

Part No. **1579007-1**

Part No. **1-1579007-1**

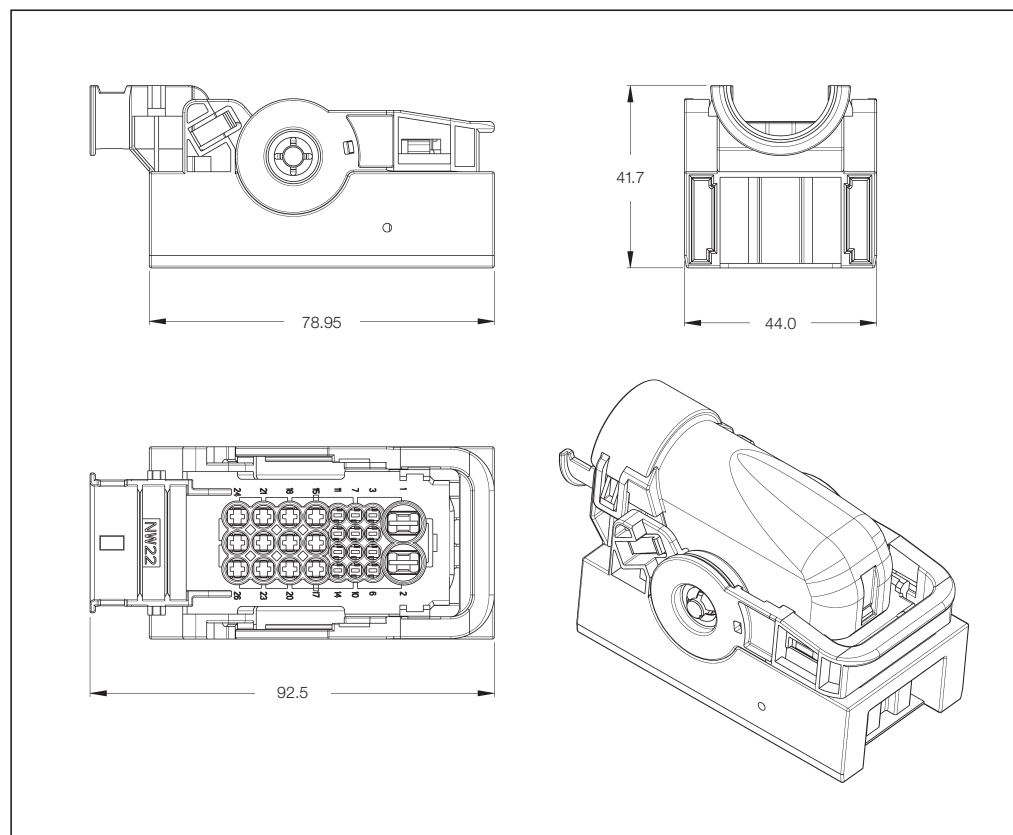
Part No. **1-1579007-3**  
dependent on the contact

##### Product Specification:

108-94214

##### Application Specification:

114-94010



#### Sealed Mixed Receptacle Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |           |                            |
|------------------|----------------|---------------|--------------------|------------------|-----------|----------------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Cover     | Mating Tab Housing         |
| 26               | A              | Black         | 1-2112035-1        | —                | 2112046-1 | 1-2112041-1<br>1-2112041-2 |

### Sealed AMP MCP 1.5K Receptacle Housings

#### Technical Features

##### No. of Positions:

46 Positions

##### Housing Material:

PBT-GF20

##### Extraction Tool:

Part No. **1-1579007-1**

##### Wire Size Range:

1.5 mm<sup>2</sup> FLR Max.

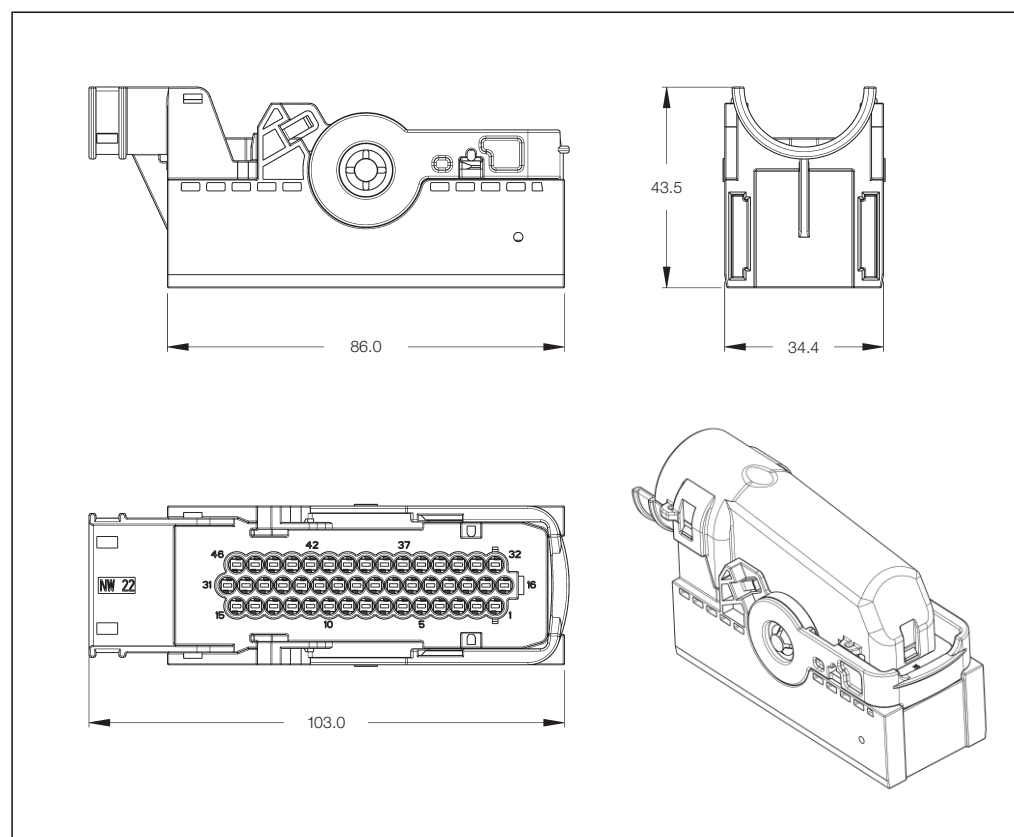
AWG 16 TXL Max.

##### Product Specification:

108-94216

##### Application Specification:

114-94012



#### Sealed Receptacle Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |           |                   |
|------------------|----------------|---------------|--------------------|------------------|-----------|-------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Cover     | Mating Tab Header |
| 46               | A              | Black         | 1-2112231-1        | –                | 2112233-1 | *)                |

\*) On request.

### Sealed AMP MCP 1.5K/2.8 Receptacle Housings

#### Technical Features

##### No. of Positions:

62 Positions

##### Housing Material:

PBT-GF20

##### Wire Size Range:

6x AMP MCP 1.5K

1.5 mm<sup>2</sup> FLR Max.

AWG 16 TXL Max.

56x AMP MCP 2.8

2.5 mm<sup>2</sup> FLR Max.

AWG 12 TXL Max.

##### Extraction Tools:

Part No. **1579007-1**

Part No. **1-1579007-1**

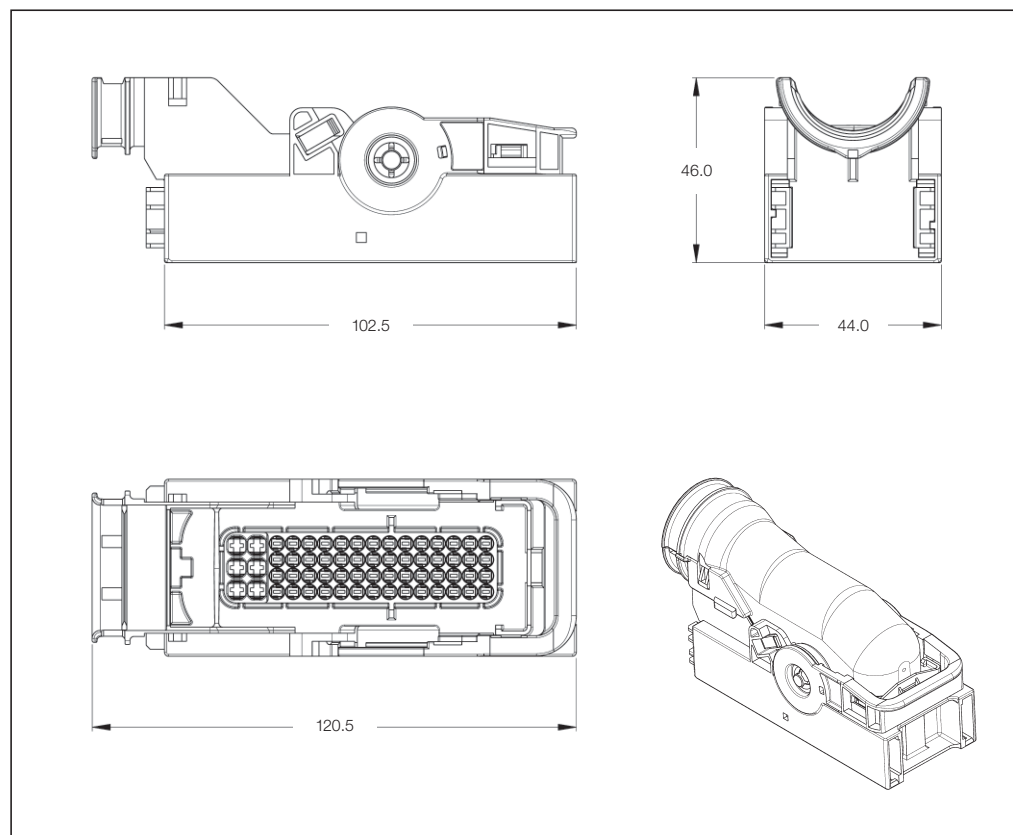
dependent on the contact

##### Product Specification:

108-18946

##### Application Specification:

114-18660



#### Sealed Mixed Receptacle Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers       |           |                    |                            |                              |
|------------------|----------------|---------------|--------------------|-----------|--------------------|----------------------------|------------------------------|
|                  |                |               | Receptacle Housing | Cover     | Mating Tab Housing | Mating PCB Header Straight | Mating PCB Header 90° Angled |
| 62               | A              | Black         | 1-1418883-1        | 1418882-1 | 1-1718324-1        | 1-1418362-1                | 1-1418362-3                  |
|                  | B              | Gray          | 2-1418883-1        |           | 2-1718324-1        | 2-1418362-1                | 2-1418362-3                  |
|                  | C              | Blue          | 3-1418883-1        |           | –                  | –                          | –                            |
| 62*              | A              | Black         | 1-1823498-1        | 1823500-1 | –                  | –                          | –                            |
|                  | B              | Gray          | 2-1823498-1        |           | –                  | –                          | –                            |
|                  | C              | Blue          | 3-1823498-1        |           | –                  | –                          | –                            |
|                  | D              | Green         | 4-1823498-1        |           | –                  | –                          | –                            |

\*) UL 94 V-0 rated.

### Sealed AMP MCP 2.8 Receptacle Housings

#### Technical Features

##### No. of Positions:

39 Positions

##### Housing Material:

PBT-GF20

##### Wire Size Range:

AMP MCP 2.8  
2.5 mm<sup>2</sup> FLR Max.  
AWG 12 TXL Max.

##### Extraction Tool:

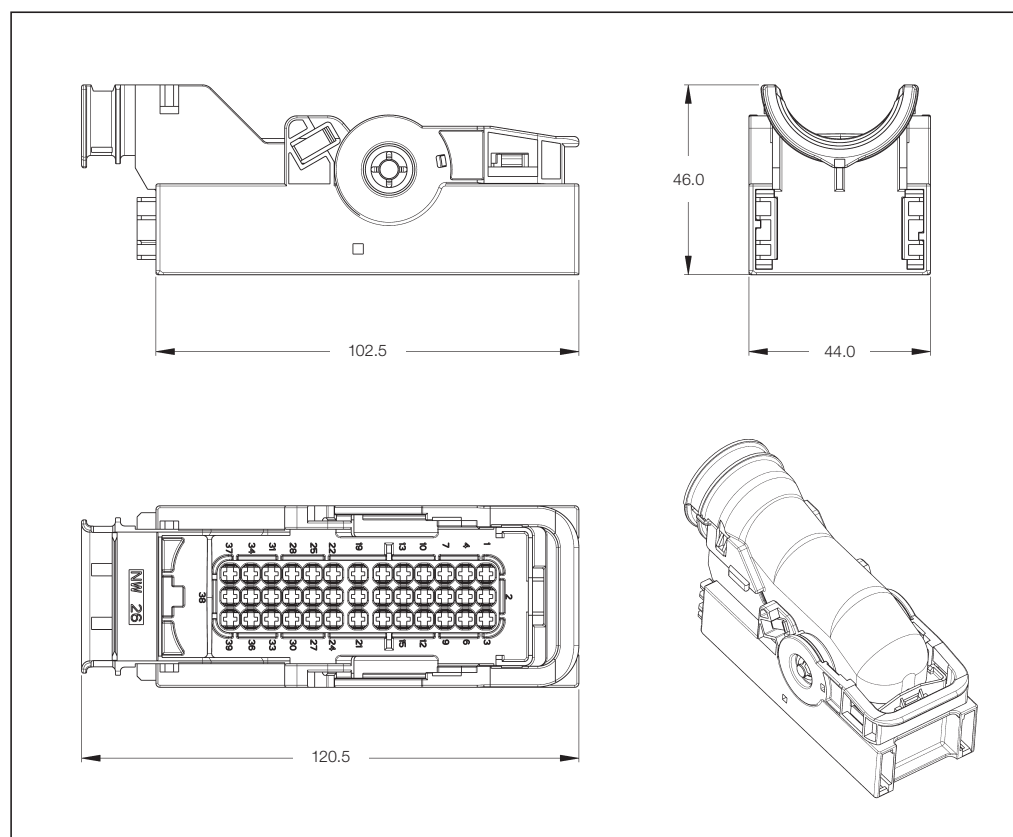
Part No. **1579007-1**

##### Product Specification:

108-18946

##### Application Specification:

114-18660



#### Sealed Receptacle Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers       |           |                    |                            |                              |
|------------------|----------------|---------------|--------------------|-----------|--------------------|----------------------------|------------------------------|
|                  |                |               | Receptacle Housing | Cover     | Mating Tab Housing | Mating PCB Header Straight | Mating PCB Header 90° Angled |
| 39               | E              | Emerald Green | 5-1718321-3        | 1418882-1 | 5-1718323-1        | 5-1418363-1                | 5-1418363-3                  |

### Sealed AMP MCP 2.8/6.3 Receptacle Housings

#### Technical Features

##### No. of Positions:

31 Positions

##### Housing Material:

PBT-GF20

##### Wire Size Range:

27x AMP MCP 2.8

2.5 mm<sup>2</sup> FLR Max./

AWG 12 TXL Max.

4x AMP MCP 4.8K/6.3

6.0 mm<sup>2</sup> FLR Max.

##### Extraction Tools:

Part No. **1579007-1**

Part No. **1-1579007-3**

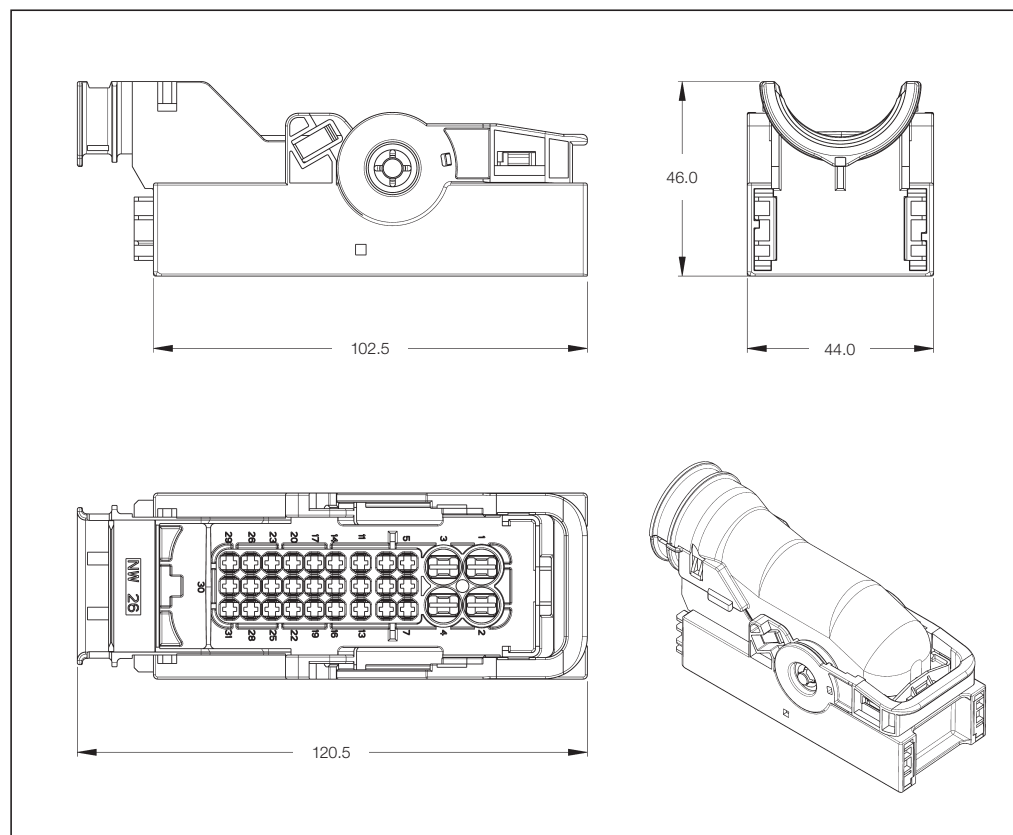
dependent on the contact

##### Product Specification:

108-18946

##### Application Specification:

114-18660



#### Sealed Receptacle Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers       |           |                    |                            |                              |
|------------------|----------------|---------------|--------------------|-----------|--------------------|----------------------------|------------------------------|
|                  |                |               | Receptacle Housing | Cover     | Mating Tab Housing | Mating PCB Header Straight | Mating PCB Header 90° Angled |
| 31               | A              | Bordeaux      | 1-1564297-6        | 1418882-1 | *)                 | *)                         | *)                           |

\*) On request.

### Sealed AMP MCP 1.5K Receptacle Housings

#### Technical Features

##### No. of Positions:

92 Positions

##### Housing Material:

PBT-GF20

##### Extraction Tool:

Part No. **1-1579007-1**

##### Wire Size Range:

1.5 mm<sup>2</sup> FLR Max.

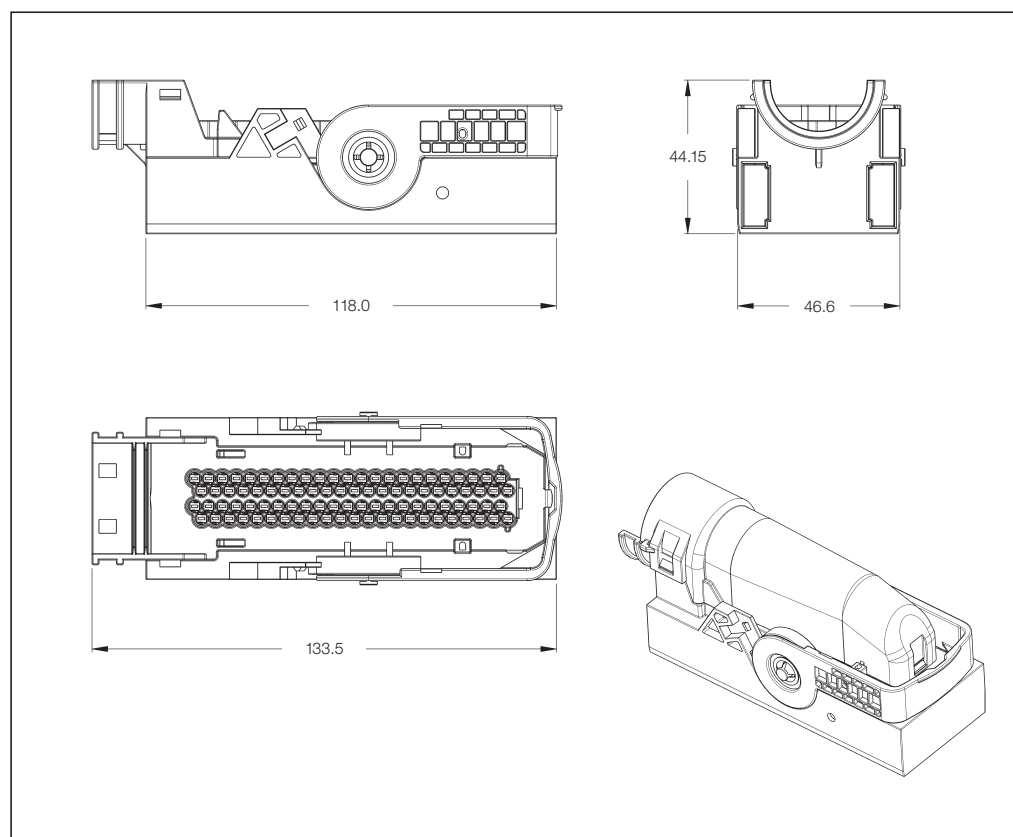
AWG 16 TXL Max.

##### Product Specification:

108-18893

##### Application Specification:

114-18598



#### Sealed Receptacle Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers       |                  |           |                   |
|------------------|----------------|---------------|--------------------|------------------|-----------|-------------------|
|                  |                |               | Receptacle Housing | Package Quantity | Cover     | Mating Tab Header |
| 92               | A              | Black         | 1703998-1          | –                | 1703997-1 | 1-1452228-9       |

### Sealed 2.8 mm Tab Housings

#### Technical Features

##### No. of Positions:

15 Positions

##### Housing Material:

PBT-GF20

##### Wire Size Range:

2.5 mm<sup>2</sup> FLR Max.  
AWG 12 TXL Max.

##### Extraction Tool:

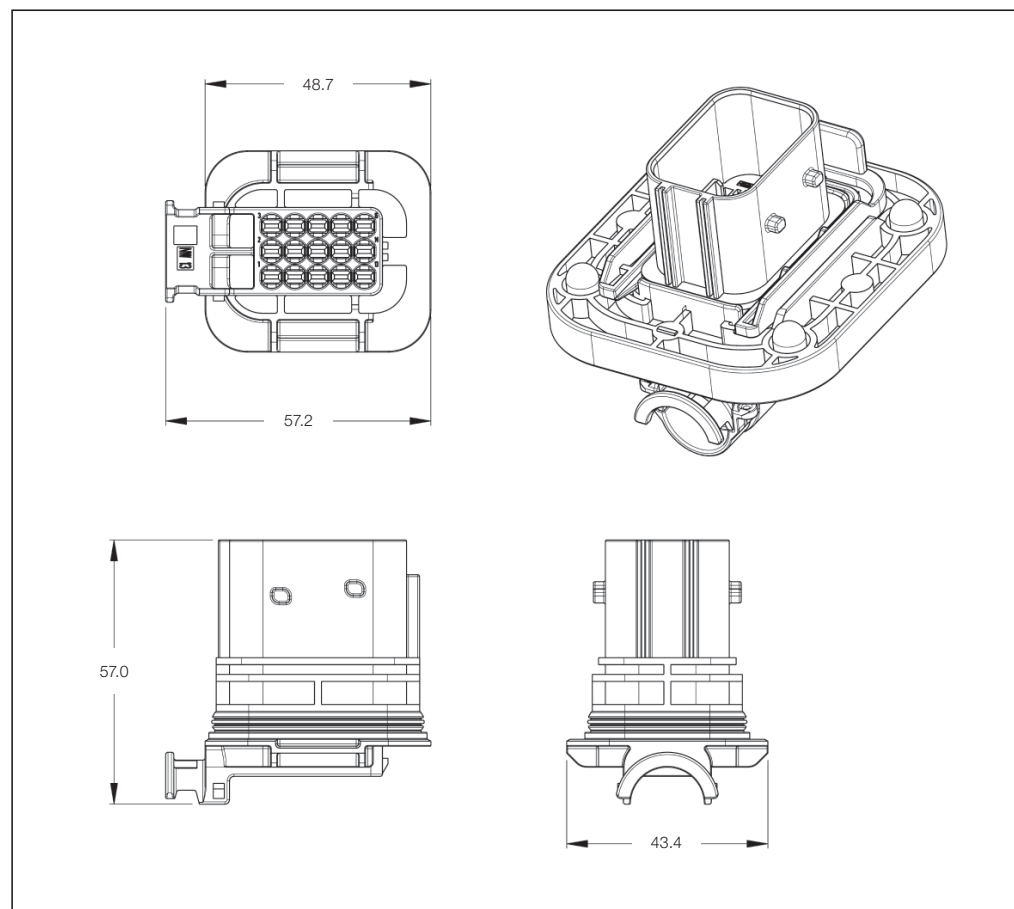
Part No. **1-1579007-6**

##### Product Specification:

108-18696

##### Application Specification:

114-18376



### Sealed 2.8 mm Tab Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers |             |           |               |                           |
|------------------|----------------|---------------|--------------|-------------|-----------|---------------|---------------------------|
|                  |                |               | Tab Housing  | Cover       | Adapter   | Locking Slide | Mating Receptacle Housing |
| 15               | A              | Black         | 1703799-1    | 9-1394049-1 | 1703806-1 | 1703804-1     | 1-1534126-1               |
|                  | B              | Natural       | *)           |             |           |               | 2-1534126-1               |
|                  | C              | Blue          | *)           |             |           |               | 3-1534126-1               |

\*) On request.

### Sealed 1.5 mm/2.8 mm Tab Housings

#### Technical Features

##### No. of Positions:

22 Positions

##### Housing Material:

PBT-GF30

##### Wire Size Range:

1.5 mm<sup>2</sup> FLR Max.

2.5 mm<sup>2</sup> FLR Max.

AWG 12 TXL Max.

##### Extraction Tools:

Part No. **1-1579007-1**

Part No. **1-1579007-6**

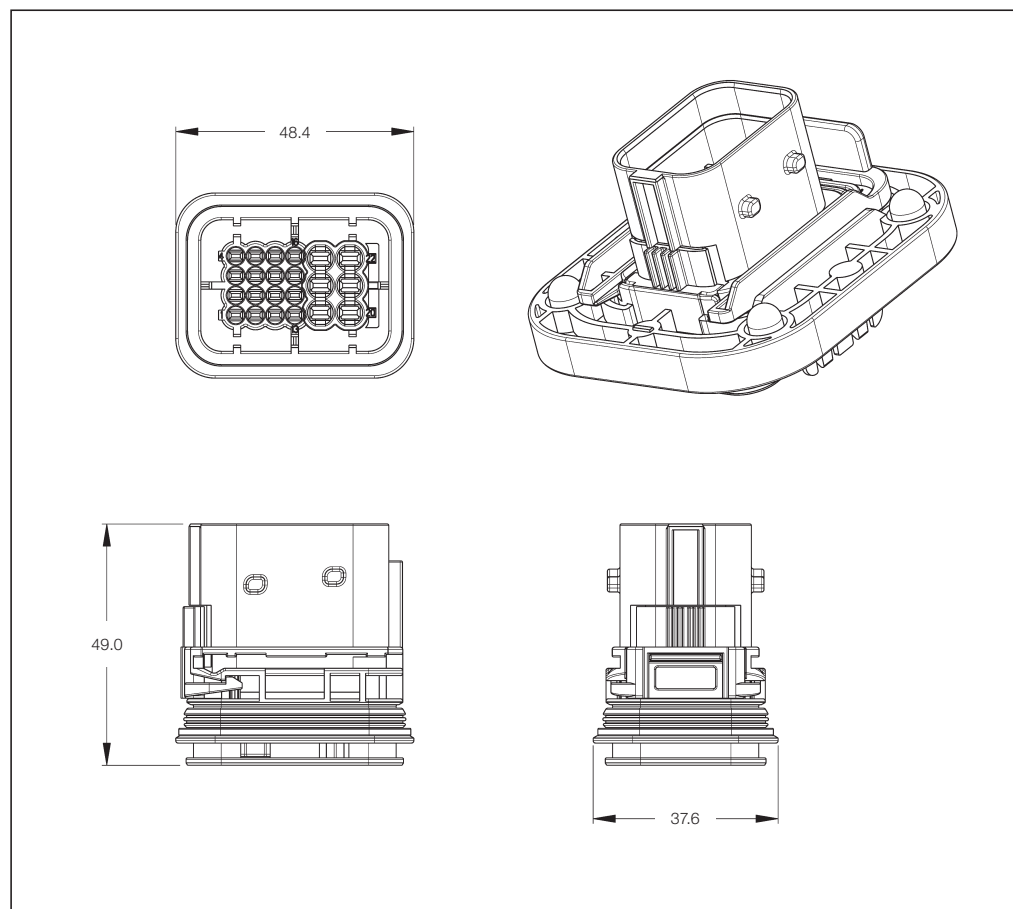
dependent on the contact

##### Product Specification:

108-94025

##### Application Specification:

114-18993



#### Sealed Mixed Tab Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers |       |           |               |                           |
|------------------|----------------|---------------|--------------|-------|-----------|---------------|---------------------------|
|                  |                |               | Tab Housing  | Cover | Adapter   | Locking Slide | Mating Receptacle Housing |
| 18               | A              | Black         | 1-1823449-2  |       |           |               | 1-1823440-2               |
|                  | B              | Gray          | *)           | *)    | 1703806-1 | 1703804-1     | *)                        |
|                  | C              | Blue          | *)           |       |           |               | *)                        |

\*) On request.

### Sealed 2.8 mm Tab Housings

#### Technical Features

##### No. of Positions:

21 Positions

##### Housing Material:

PBT-GF30

##### Wire Size Range:

2.5 mm<sup>2</sup> FLR Max.  
AWG 12 TXL Max.

##### Extraction Tool:

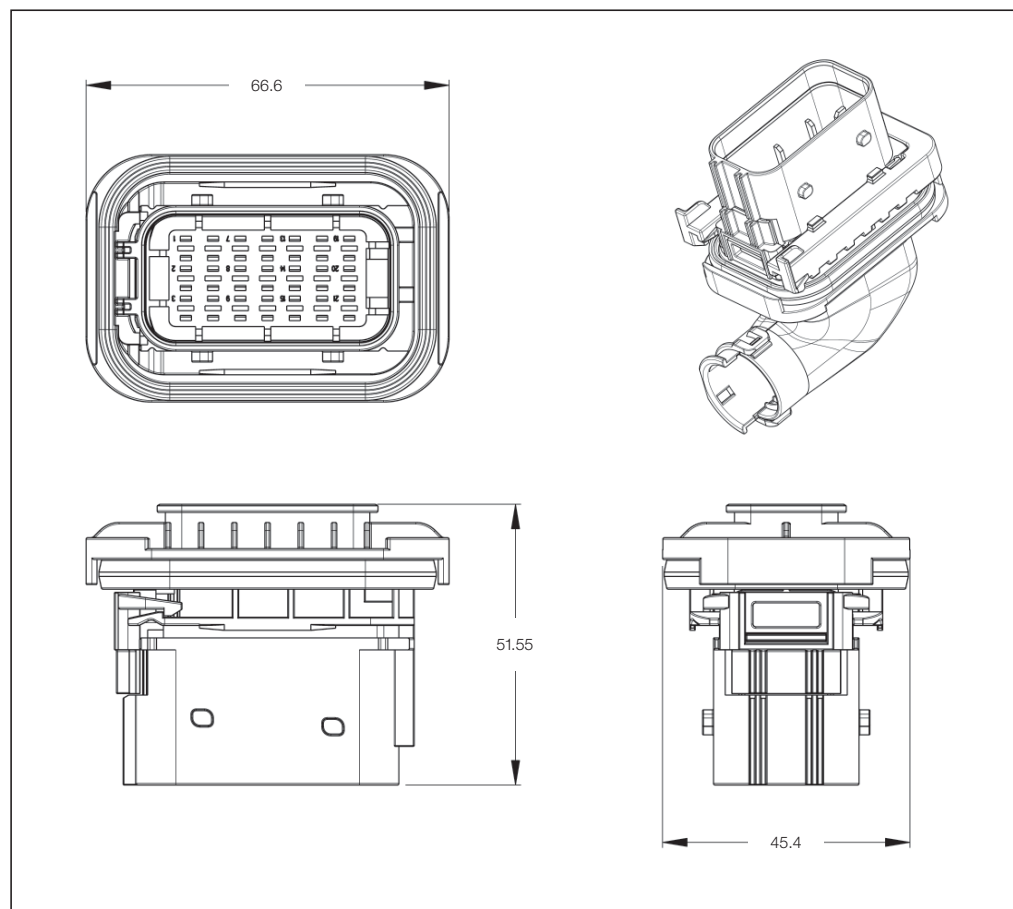
Part No. **1-1579007-6**

##### Product Specification:

108-18696

##### Application Specification:

114-18376



#### Sealed Tab Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers            |           |                       |                           |
|------------------|----------------|---------------|-------------------------|-----------|-----------------------|---------------------------|
|                  |                |               | Tab Housing with Flange | Cover     | Locking Slide         | Mating Receptacle Housing |
| 21               | A              | Black         | 1-2112162-1             | 2112167-1 | 2112166-1<br>(2.5 mm) | 1-1534127-1               |
|                  | B              | Natural       | *)                      |           |                       | 2-1534127-1               |
|                  | C              | Blue          | *)                      |           |                       | 3-1534127-1               |
|                  | D              | Violet        | *)                      |           |                       | 4-1534127-1               |

\*) On request.

### Sealed 1.5 mm/2.8 mm/6.3 mm Tab Housings

#### Technical Features

##### No. of Positions:

26 Positions

##### Housing Material:

PBT-GF30

##### Wire Size Range:

12x 1.0 mm<sup>2</sup> FLR Max.

12x 2.5 mm<sup>2</sup> FLR Max.

AWG 12 TXL Max.

4x 6.0 mm<sup>2</sup> FLR Max.

##### Extraction Tools:

Part No. **1-1579007-1**

Part No. **1-1579007-3**

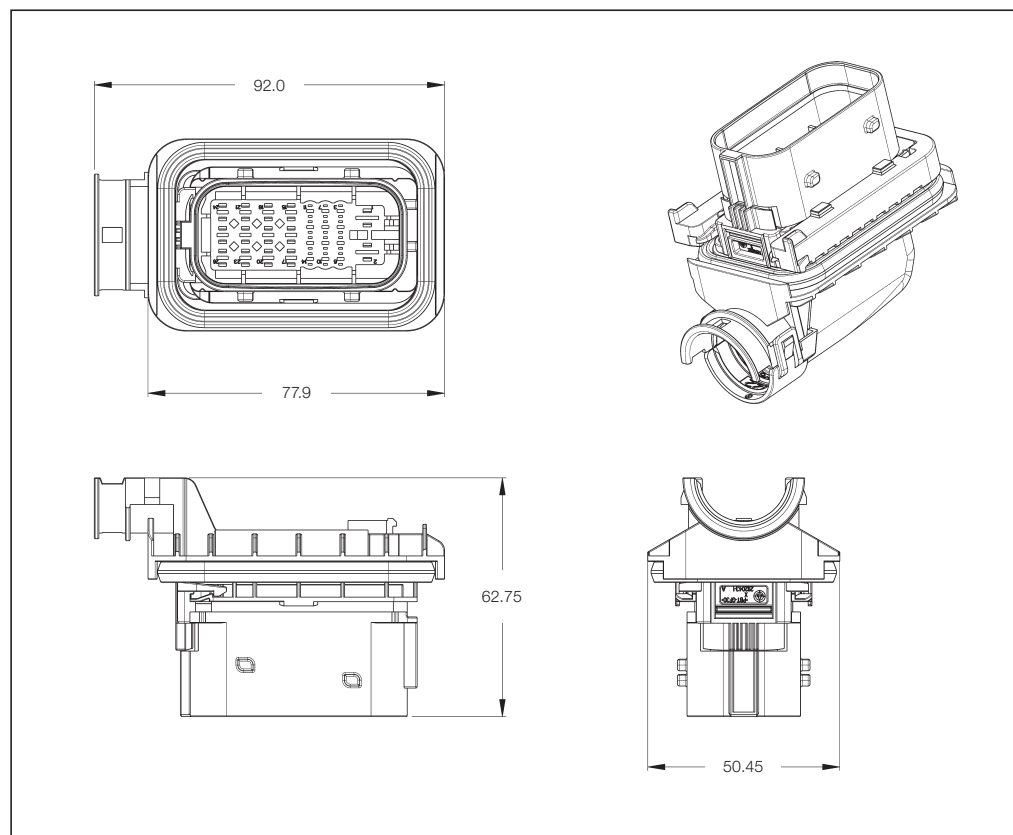
Part No. **1-1579007-6**  
dependent on the contact

##### Product Specification:

108-94214

##### Application Specification:

114-94010



#### Sealed Mixed Tab Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers            |             |           |                         |                           |
|------------------|----------------|---------------|-------------------------|-------------|-----------|-------------------------|---------------------------|
|                  |                |               | Tab Housing with Flange |             | Cover     | Locking Slide           | Mating Receptacle Housing |
| 26               | A              | Black         | 1-2112041-1             | 1-2112041-2 | 2112046-1 | 1-2112045-1<br>(2.5 mm) | 1-2112035-1               |

### Sealed 1.5 mm/2.8 mm Tab Housings

#### Technical Features

##### No. of Positions:

62 Positions

##### Housing Material:

PBT-GF20

##### Wire Size Range:

56x 1.5 mm<sup>2</sup> FLR Max.

6x 2.5 mm<sup>2</sup> FLR Max.

AWG 12 TXL Max.

##### Extraction Tools:

Part No. **1-1579007-1**

Part No. **1-1579007-6**

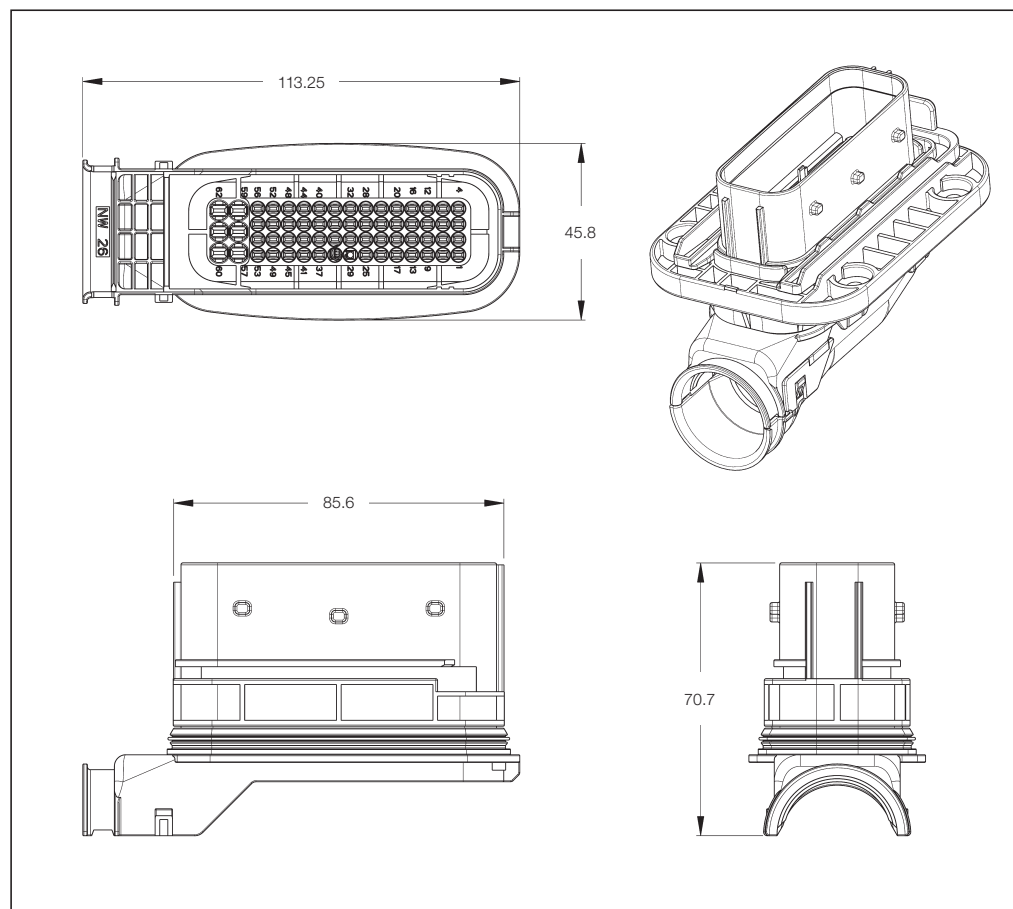
dependent on the contact

##### Product Specification:

108-18946

##### Application Specification:

114-18660



#### Sealed Tab Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers |           |           |               |                           |
|------------------|----------------|---------------|--------------|-----------|-----------|---------------|---------------------------|
|                  |                |               | Tab Housing  | Cover     | Adapter   | Locking Slide | Mating Receptacle Housing |
| 62               | A              | Black         | 1-1718324-1  | 1418882-1 | 1718329-1 | 1718328-1     | 1-1418883-1               |
|                  | B              | Gray          | 2-1718324-1  |           | 1813123-1 |               | 2-1418883-1               |
|                  | C              | Blue          | —            |           | 1813123-2 |               | 3-1418883-1               |

### Sealed 2.8 mm Tab Housings

#### Technical Features

##### No. of Positions:

39 Positions

##### Housing Material:

PBT-GF20

##### Wire Size Range:

2.5 mm<sup>2</sup> FLR Max.  
AWG 12 TXL Max.

##### Extraction Tool:

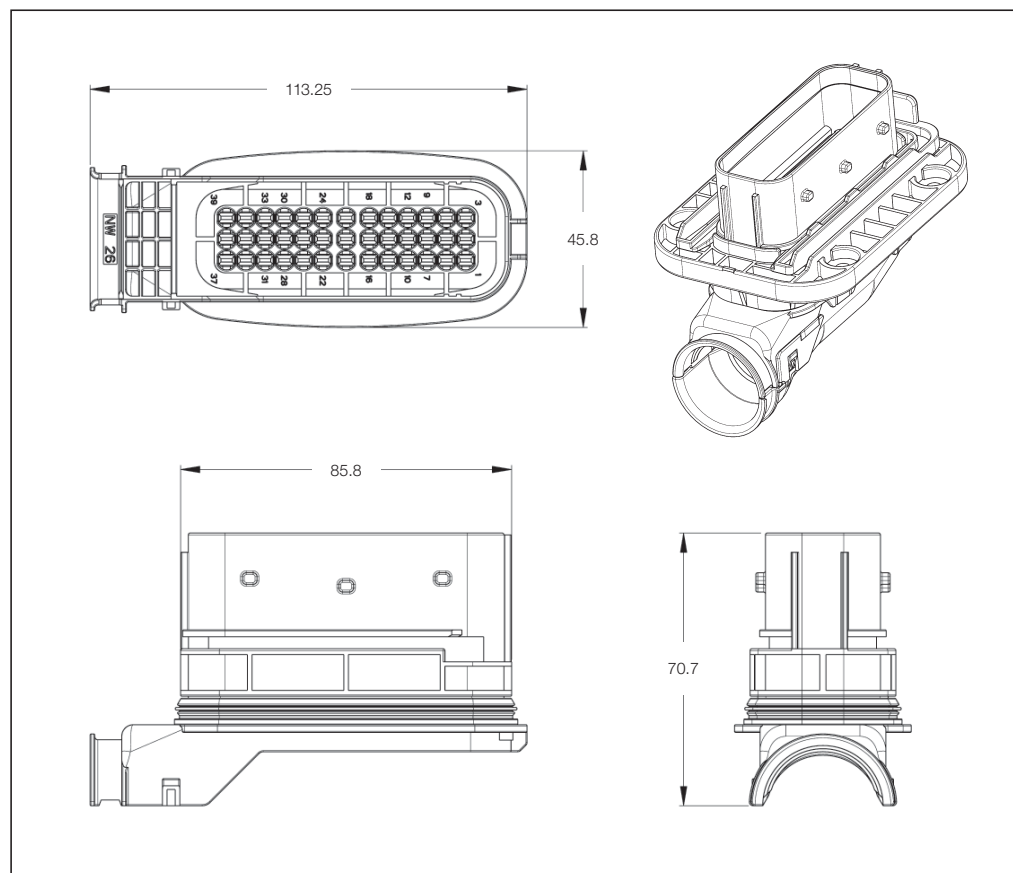
Part No. **1-1579007-6**

##### Product Specification:

108-18946

##### Application Specification:

114-18660



### Sealed 2.8 mm Tab Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers |           |           |               |                           |
|------------------|----------------|---------------|--------------|-----------|-----------|---------------|---------------------------|
|                  |                |               | Tab Housing  | Cover     | Adapter   | Locking Slide | Mating Receptacle Housing |
| 39               | E              | Emerald Green | 5-1718323-1  | 1418882-1 | 1718329-1 | 1718328-1     | 5-1718321-3               |
|                  |                |               |              |           | 1813123-1 |               |                           |
|                  |                |               |              |           | 1813123-2 |               |                           |

### Sealed 2.8 mm Tab Housings

#### Technical Features

##### No. of Positions:

2 Positions

##### Housing Material:

PA 66 GF13

##### Wire Size Range:

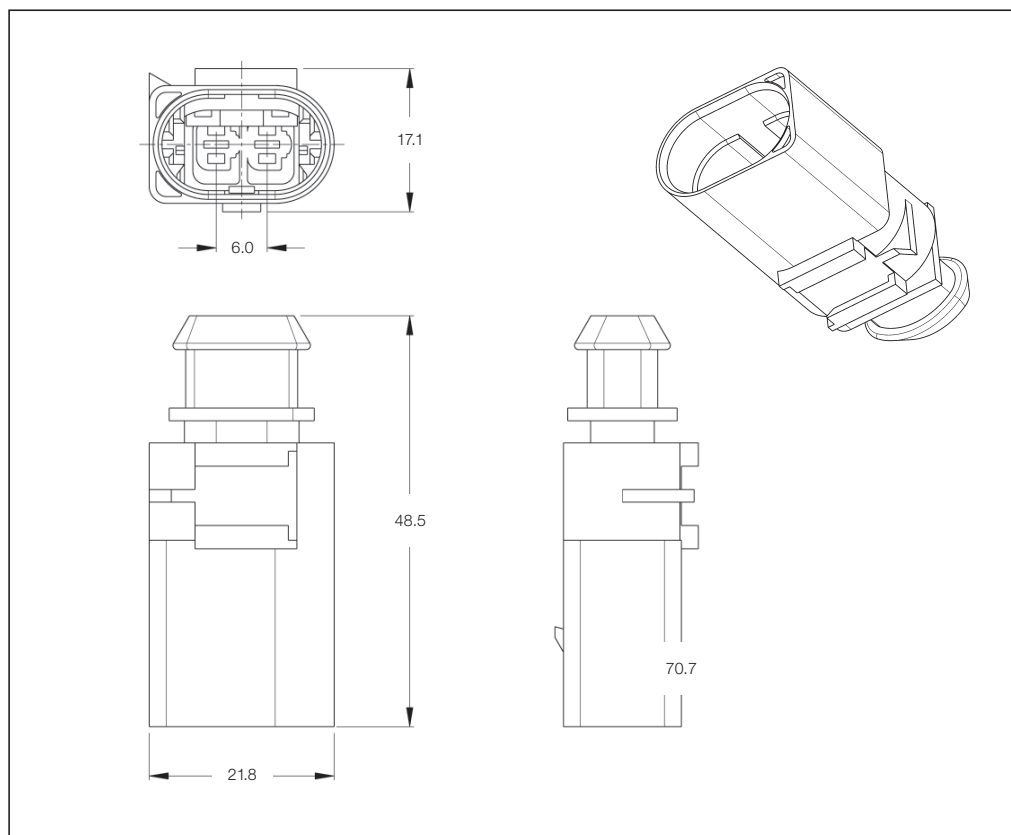
2.5 mm<sup>2</sup> FLR Max.

##### Product Specification:

108-18180 (Tab Housing)

##### Application Specification:

114-18131 (Tab Housing)



#### Sealed Tab Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers |                  |                           |                   |
|------------------|----------------|---------------|--------------|------------------|---------------------------|-------------------|
|                  |                |               | Tab Housing  | Package Quantity | Mating Receptacle Housing | Mating PCB Header |
| 2                | A              | Black         | 1-966867-1   | –                | 1-1355200-1               | –                 |
|                  | B              | Dark Brown    | 1-966867-2   | –                | 2-1355200-1               | –                 |

### Sealed 1.5 mm/2.8 mm Tab Housings

#### Technical Features

##### No. of Positions:

12 Positions

##### Housing Material:

PA 66 GF

##### Wire Size Range:

4x 2.5 mm<sup>2</sup> FLR Max.

8x 1.0 mm<sup>2</sup> FLR Max.

##### Extraction Tools:

Part No. **539960-1**

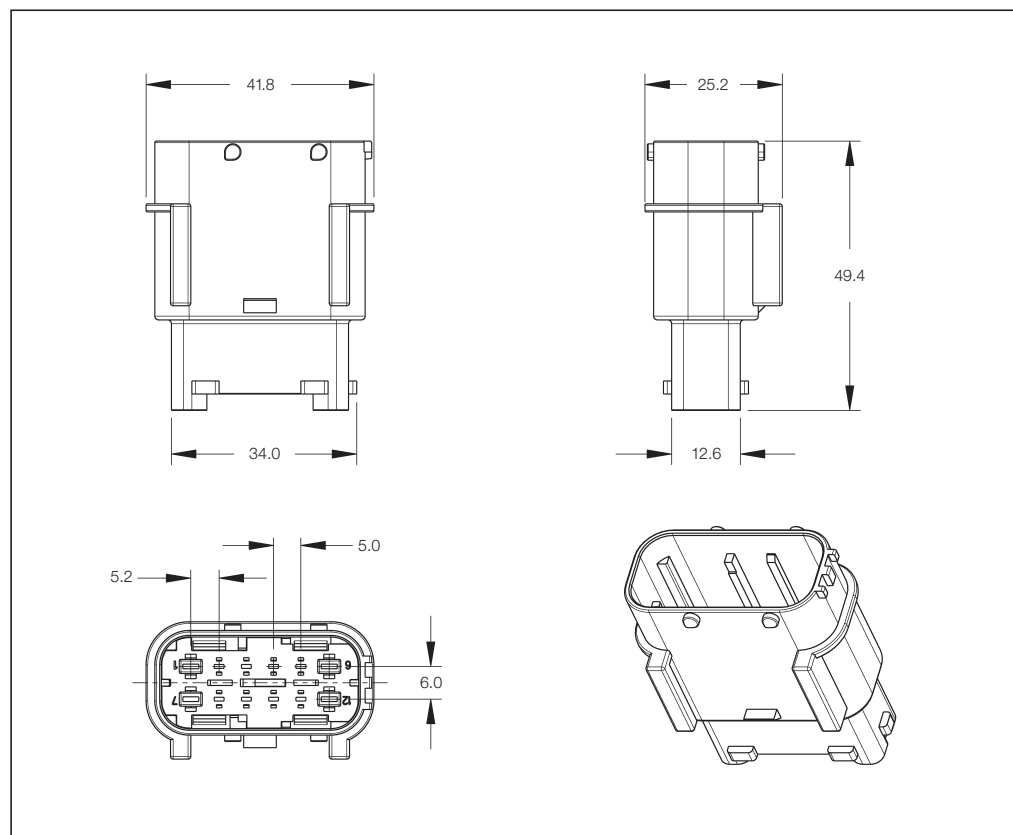
Part No. **1-1579007-6**  
dependent on the contact

##### Product Specification:

108-20242

##### Application Specification:

411-20073



#### Sealed Tab Housings

| No. of Positions | Keying Options                | Housing Color | Part Numbers |                  |                           |                   |
|------------------|-------------------------------|---------------|--------------|------------------|---------------------------|-------------------|
|                  |                               |               | Tab Housing  | Package Quantity | Mating Receptacle Housing | Mating PCB Header |
| 12               | A<br>Panel Hook on Left Side  | Black         | 284844-1     | 500              | 284848-1                  | —                 |
|                  | A<br>Panel Hook on Right Side | Black         | 284844-3     | 500              | 284848-3                  | —                 |
|                  | B<br>Panel Hook on Left Side  | Gray          | 284844-2     | 500              | 284848-2                  | —                 |
|                  | B<br>Panel Hook on Right Side | Gray          | 284844-4     | 500              | 284848-4                  | —                 |

### Sealed 1.5 mm/2.8 mm Tab Housings

#### Technical Features

##### No. of Positions:

12 Positions

##### Housing Material:

PA 66 GF

##### Wire Size Range:

4x 2.5 mm<sup>2</sup> FLR Max.

8x 1.5 mm<sup>2</sup> FLR Max.

##### Extraction Tools:

Part No. **539960-1**

Part No. **1-1579007-6**

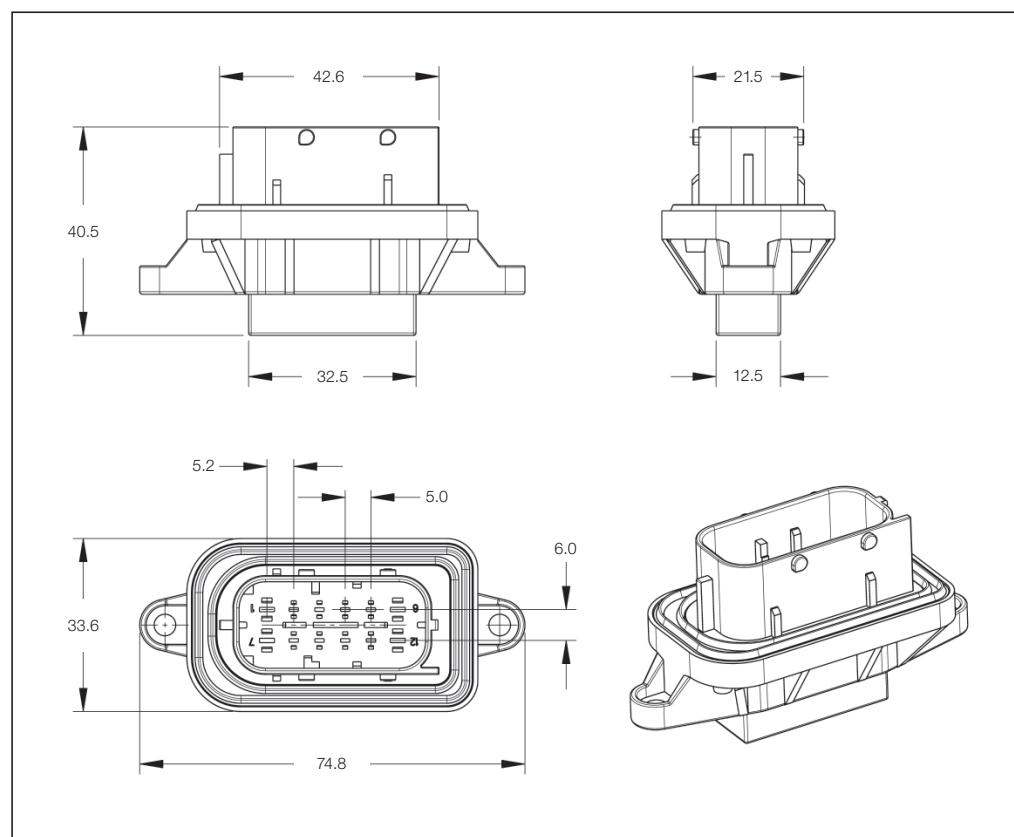
dependent on the contact

##### Product Specification:

108-20264

##### Application Specification:

—



#### Sealed Tab Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers            |                  |                           |                   |
|------------------|----------------|---------------|-------------------------|------------------|---------------------------|-------------------|
|                  |                |               | Tab Housing with Flange | Package Quantity | Mating Receptacle Housing | Mating PCB Header |
| 12               | A              | Black         | 1745045-1               | 350              | 284848-1                  | —                 |

### Sealed 1.5 mm/2.8 mm Tab Housings

#### Technical Features

##### No. of Positions:

20–24 Positions

##### Housing Material:

PA 66 GF

##### Wire Size Range:

8x 2.5 mm<sup>2</sup> FLR Max.  
16x 1.0 mm<sup>2</sup> FLR Max.

##### Extraction Tools:

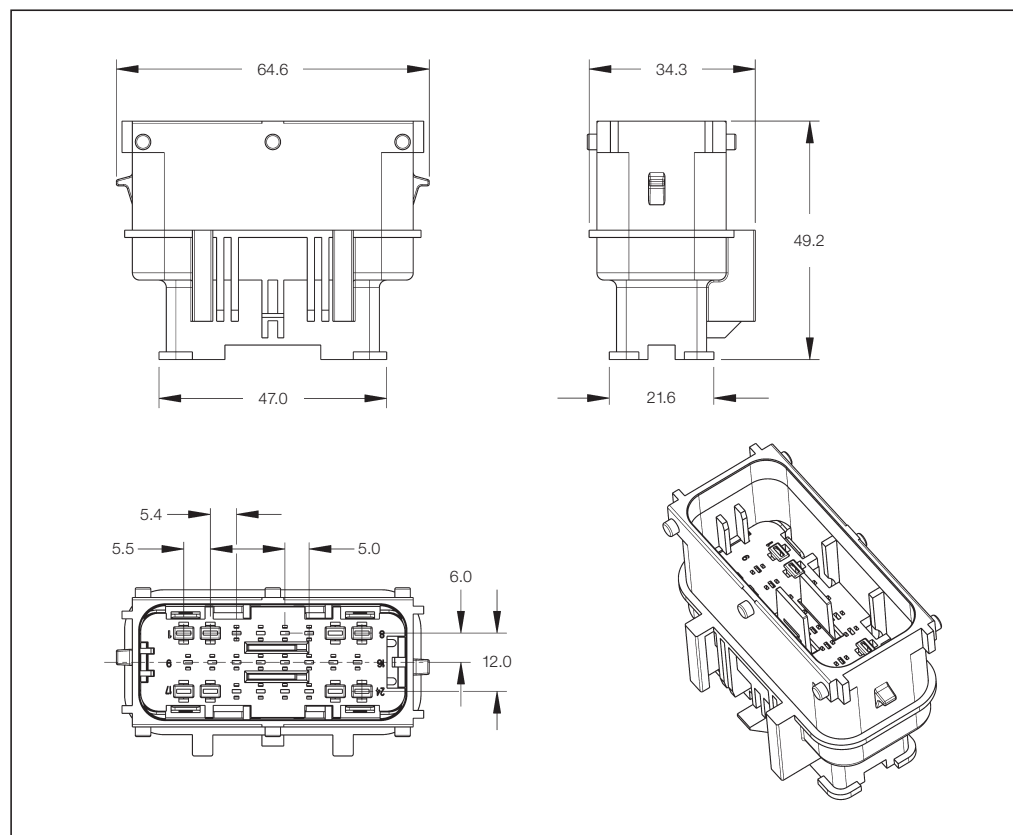
Part No. **539960-1**  
Part No. **1-1579007-6**  
dependent on the contact

##### Product Specification:

108-20262

##### Application Specification:

411-20100



#### Sealed Mixed Tab Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers            |                  |                           |                   |
|------------------|----------------|---------------|-------------------------|------------------|---------------------------|-------------------|
|                  |                |               | Tab Housing with Flange | Package Quantity | Mating Receptacle Housing | Mating PCB Header |
| 20               | A              | Black         | 1745044-1               | 225              | 1745043-1                 | –                 |
|                  |                |               |                         |                  | 1745043-2                 |                   |
| 24               | A              | Gray          | 1745044-2               | 225              | 1745043-3                 | –                 |
|                  |                |               |                         |                  | 1745043-4                 |                   |

### Sealed 9.5 mm Tab Housings

#### Technical Features

**No. of Positions:**

2 Positions

**Housing Material:**

PBT-GF13

**Wire Size Range:**

10.0 mm<sup>2</sup> FLK Max.

**Extraction Tool:**

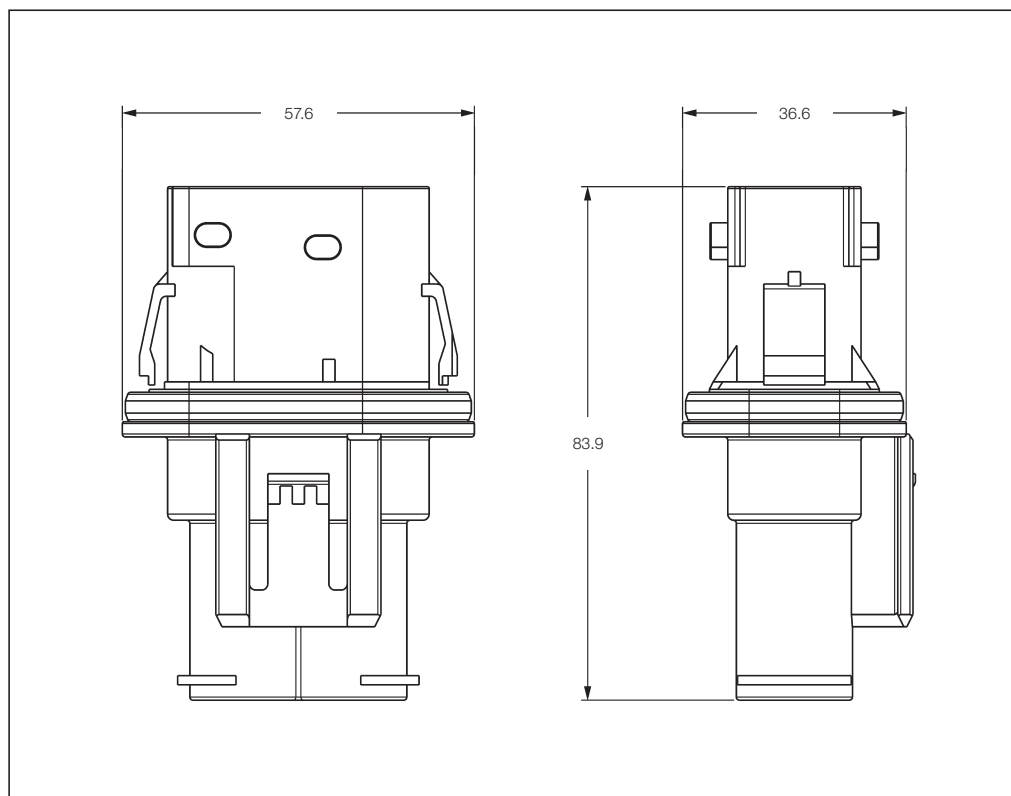
Part No. **1-1579007-7**

**Product Specification:**

108-18809

**Application Specification:**

114-18501



### Sealed 9.5 mm Tab Housings

| No. of Positions | Keying Options | Housing Color | Part Numbers                                  |                  |                           |                   |
|------------------|----------------|---------------|-----------------------------------------------|------------------|---------------------------|-------------------|
|                  |                |               | Tab Housing                                   | Package Quantity | Mating Receptacle Housing | Mating PCB Header |
| 2                | –              | Black         | 1394026-2                                     | –                | 1355328-1                 | –                 |
|                  |                |               | 1394026-1<br>(with Sealing for Wall Mounting) |                  |                           |                   |

### Sealed 2.8 mm Tab Housings – Printed Circuit Board Headers

#### Technical Features

##### No. of Positions:

21 Positions

##### Housing Material:

PBT-GF20

##### Material and Finish:

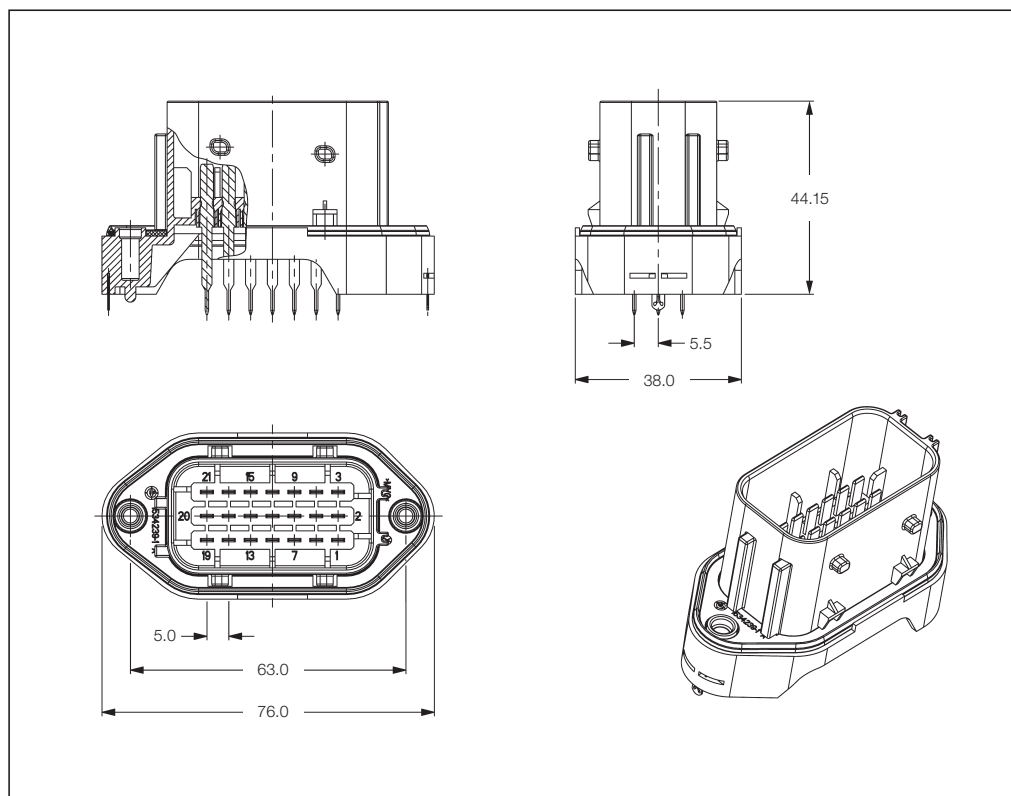
CuSn, silver plated

##### Product Specification:

108-18696

##### Application Specification:

—



### Sealed Tab Housings – Printed Circuit Board Headers

| No. of Positions | Housing Color | Part Numbers        |                  |                           |
|------------------|---------------|---------------------|------------------|---------------------------|
|                  |               | Vertical PCB Header | Package Quantity | Mating Receptacle Housing |
| 21               | Black         | 1534238-1           | —                | 1-1534127-1               |

### Sealed 2.8 mm Tab Housings – Printed Circuit Board Headers

#### Technical Features

##### No. of Positions:

39 Positions

##### Housing Material:

PBT-GF20

##### Material and Finish:

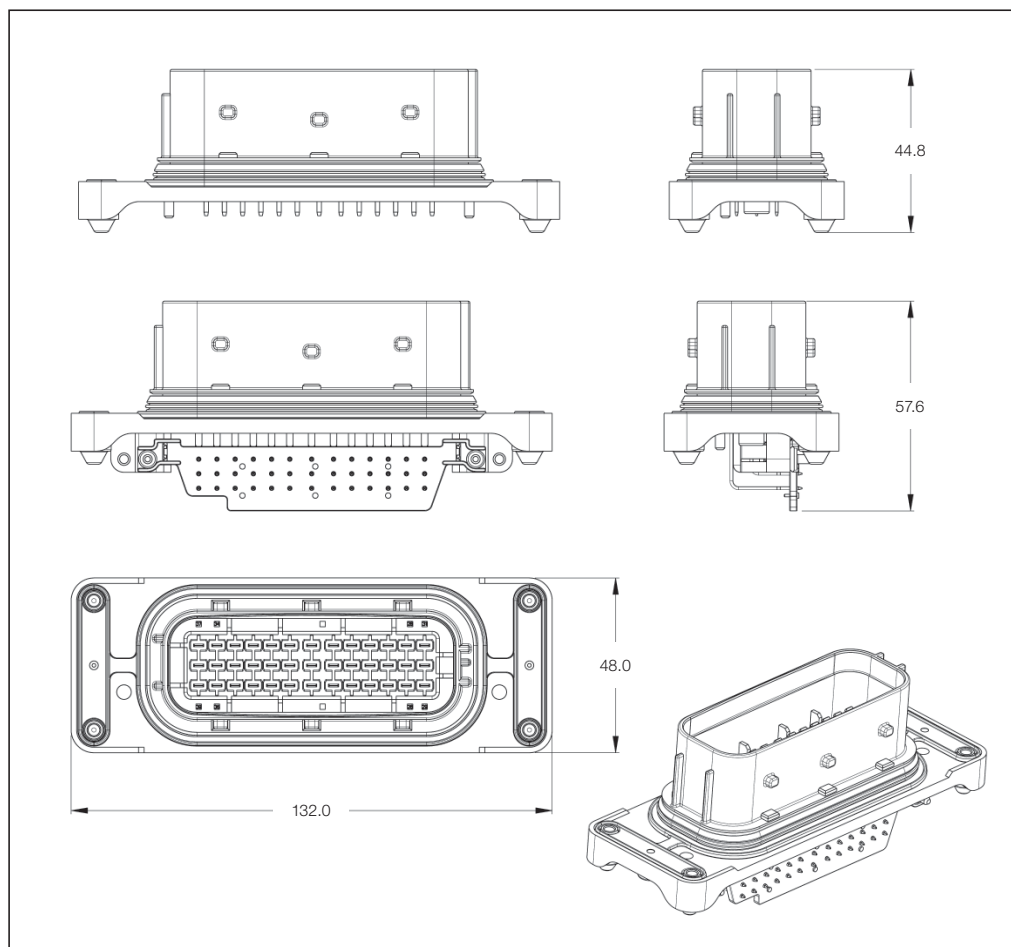
CuSn, silver plated

##### Product Specification:

108-18946

##### Application Specification:

114-18660



### Sealed Mixed Tab Housings – Printed Circuit Board Headers

| No. of Positions | Keying Options | Housing Color | Part Numbers        |                   |                           |
|------------------|----------------|---------------|---------------------|-------------------|---------------------------|
|                  |                |               | Vertical PCB Header | Angled PCB Header | Mating Receptacle Housing |
| 39               | E              | Emerald Green | 5-1418363-1         | 5-1418363-3       | 5-1718321-3               |

### Sealed 1.5 mm/2.8 mm Tab Housings – Printed Circuit Board Headers

#### Technical Features

##### No. of Positions:

62 Positions

##### Housing Material:

PBT-GF20

##### Material and Finish:

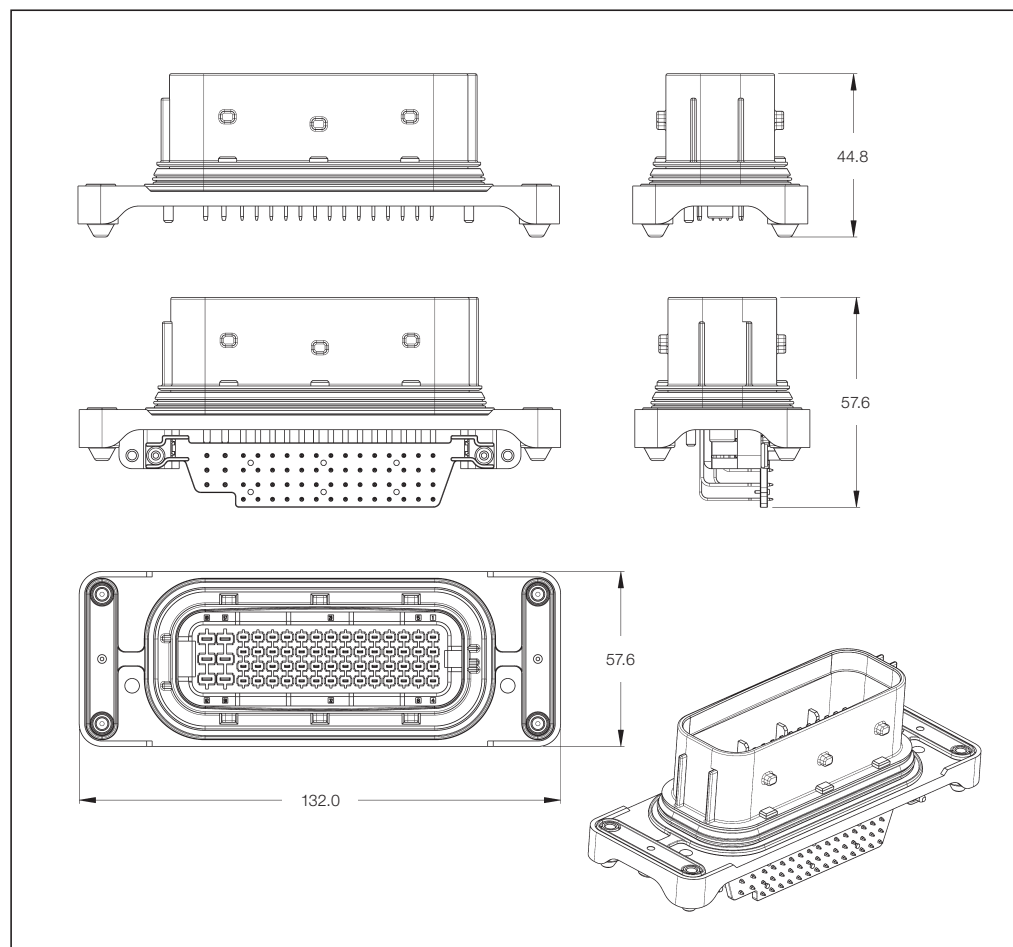
CuSn, silver plated

##### Product Specification:

108-18946

##### Application Specification:

114-18660



### Sealed Mixed Tab Housings – Printed Circuit Board Headers

| No. of Positions | Keying Options | Housing Color | Part Numbers        |                   |                           |
|------------------|----------------|---------------|---------------------|-------------------|---------------------------|
|                  |                |               | Vertical PCB Header | Angled PCB Header | Mating Receptacle Housing |
| 62               | A              | Black         | 1-1418362-1         | 1-1418362-3       | 1-1418883-1 & 1-1823498-1 |
|                  | B              | Gray          | 2-1418362-1         | 2-1418362-3       | 2-1418883-1 & 2-1823498-1 |
|                  | C              | Blue          | *)                  | *)                | 3-1418883-1               |

\*) On request.

**Sealed 1.5 mm Tab Housings – Printed Circuit Board Headers**

**0No. of Positions:**

92 Positions

**Housing Material:**

PBT-GF20

**Material and Finish:**

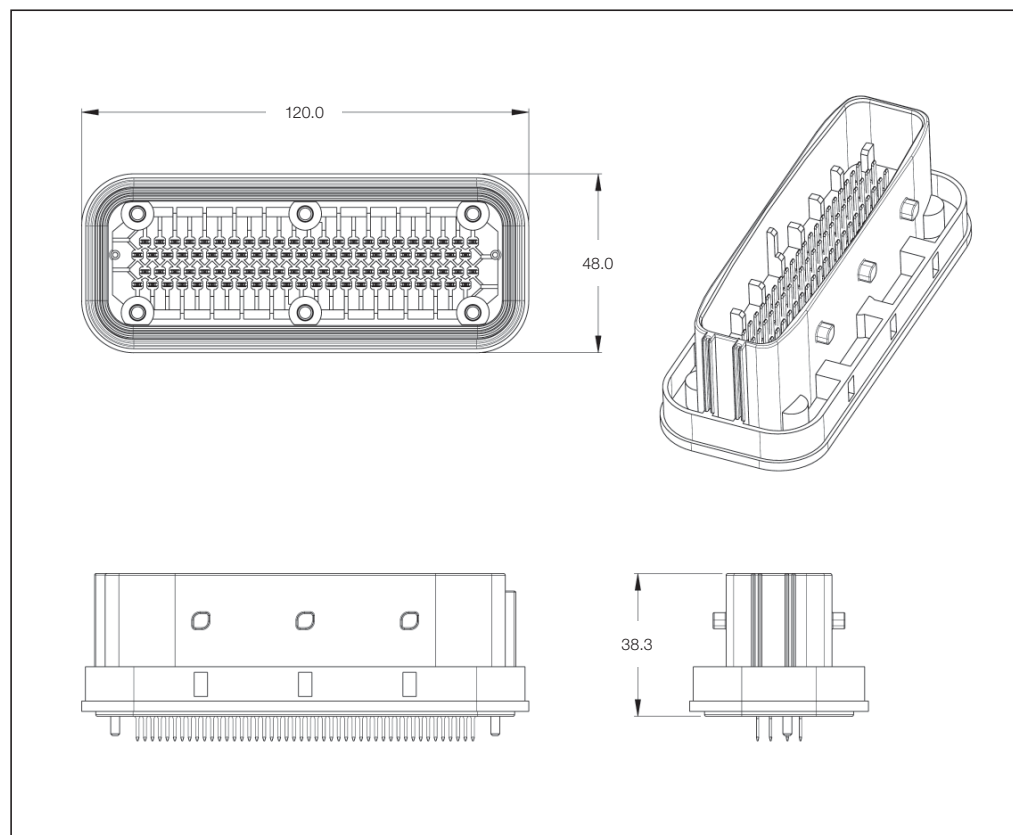
CuSn, silver plated

**Product Specification:**

108-94174

**Application Specification:**

114-18963



**Sealed Tab Housings – Printed Circuit Board Headers**

| No. of Positions | Keying Options | Housing Color | Part Numbers        |                  |                           |
|------------------|----------------|---------------|---------------------|------------------|---------------------------|
|                  |                |               | Vertical PCB Header | Package Quantity | Mating Receptacle Housing |
| 92               | A              | Black         | 1-1452228-9         | –                | 1703998-1                 |

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