

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**SUPERSEDED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**

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 mm² at AMP MCP 1.5K up to 16.0 mm² 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 mm², 0.5–1.0 mm²,
>1.0–1.5 mm² (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 mm² SRC:

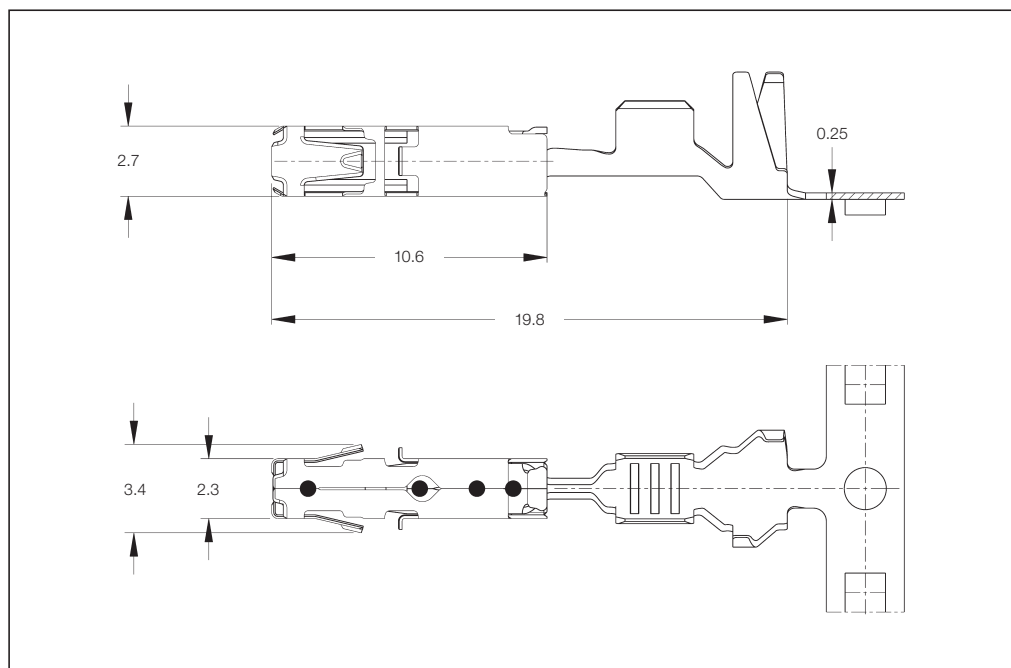
– 4.0 x 4.0 mm
– 4.0 x 3.5 mm (Staggered)

0.2–1.5 mm² 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^{+0.2}_{-0.1} x 0.6^{+0.07}_{-0.03} 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 ²)	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 ²)	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 mm², 0.5–1.0 mm²,
>1.0–1.5 mm² (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 mm² SRC:

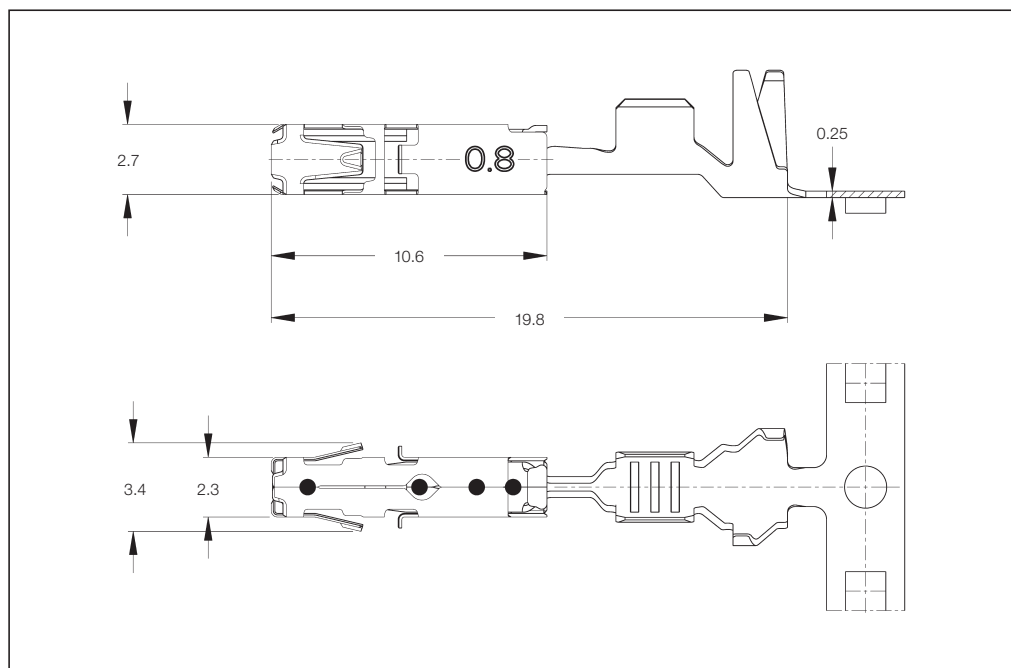
– 4.0 x 4.0 mm
– 4.0 x 3.5 mm (Staggered)

0.2–1.5 mm² 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^{+0.2}_{-0.1} x 0.8^{+0.03} 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 ²)	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 ²)	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

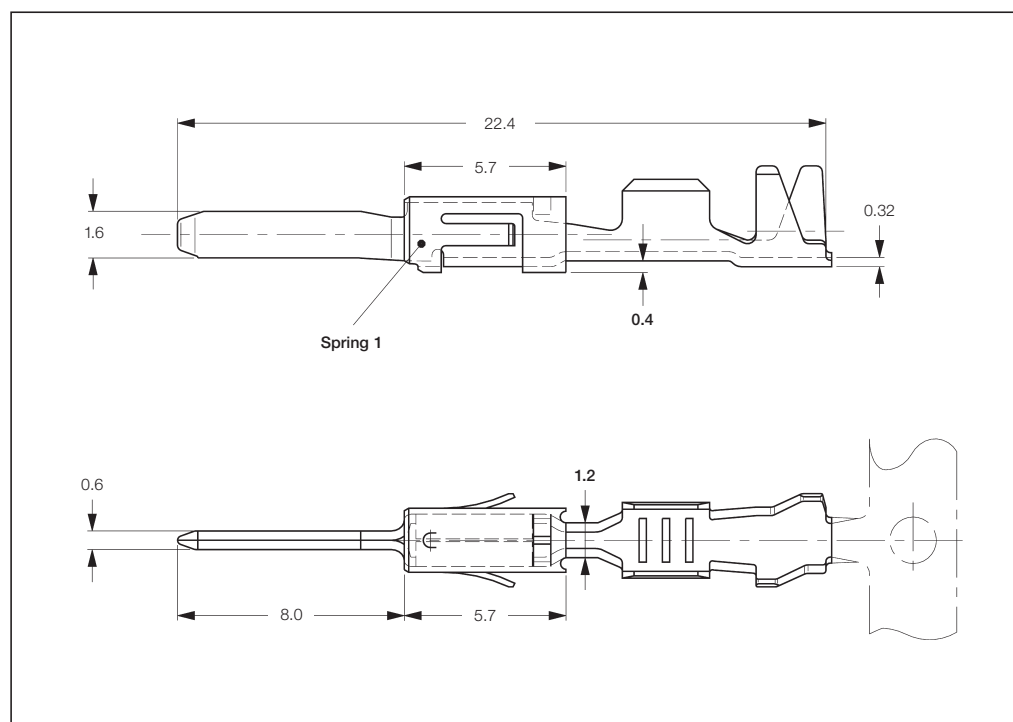
♦) The pre- and suffix for the applicators depends on the applied termination equipment.

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 ²)	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 ²)	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.

Sealed 1.5 mm Tab Housings – Printed Circuit Board Headers

0No. of Positions:

92 Positions

Housing Material:

PBT-GF20

Material and Finish:

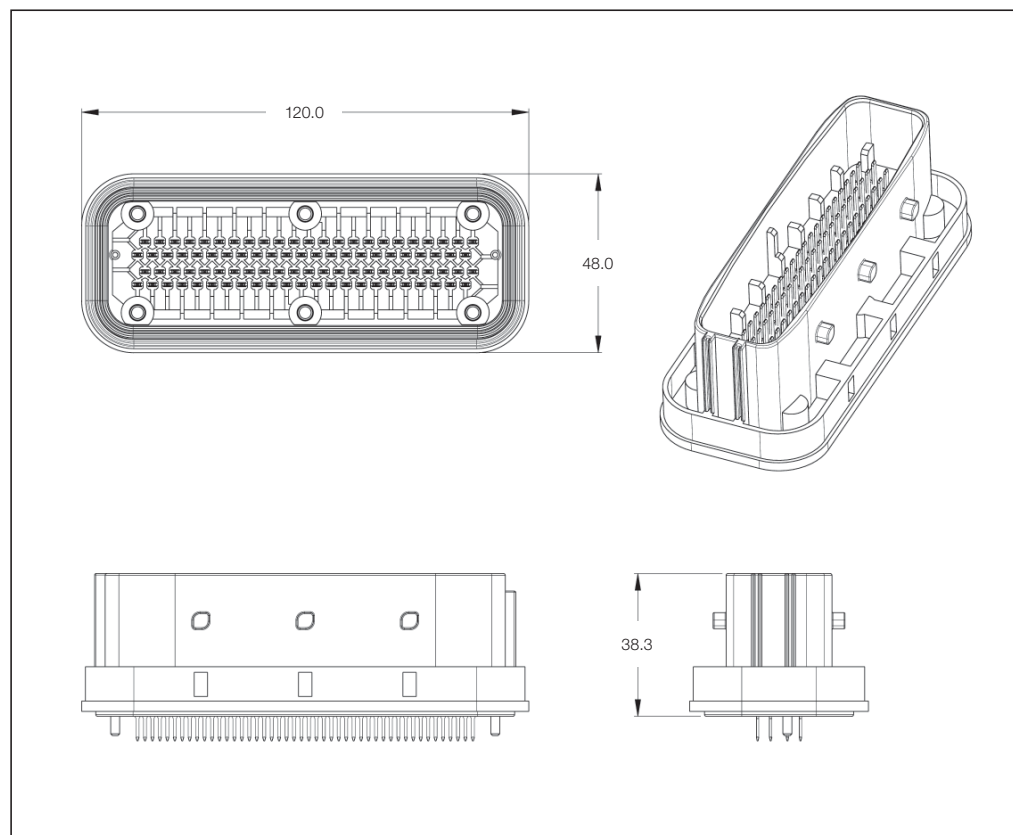
CuSn, silver plated

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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