

#### Introduction



# MCON Interconnection System offers High Reliability for Long Term Use



The New Generation MCON Connector System is designed for electronic and electrical applications in motor vehicles.

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

# **MCON Contact System**

- Base material with high current capacity
- 8 defined contact points for increased reliability
- Improved vibration resistance
- Good guiding inside the cavity
- Protected contact spring due to the closed box
- Overstress protection of the contact springs
- Box with polarization and secondary locking feature
- Protected locking lance

#### **MCON 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)
- Polarization, several keyings
- Locking mechanism for smaller connectors/mating aid for higher numbers of ways



**Engineering Notes** 

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# MCON Interconnection System Contact System

Introduction



# MCON Tabs and Receptacles for Fast and Economical Application



The MCON New Generation Contact System is mainly used in the automotive industry. Each contact consists of a flat receptacle, which mates with a flat tab. Base material of contact spring and body is copper alloy.

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.

- 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 damageGood guiding in the cavity
- Secondary locking possible (from 3 directions)
- Assembly into housing fully-automatically

# The Main Advantages of the MCON Contact System are:

- Base material with high current capacity
- 8 or more defined contact points for increased reliability
- Improved vibration resistance
- Good guiding inside the cavity
- Protected contact spring due to the closed box
- Overstress protection of the contact springs
- Box with secondary locking feature
- Protected locking lance

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

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



# Receptacle Contacts - Locking Lance (LL)

## **Technical Features**

Contact Material: CuSn 0.15/0.2; Insert Spring: CuNiSi

**Contact Finish:** Tin-silver plated, selective silver plated, selective gold plated

Wire Size Range: 0.14–0.22 mm<sup>2</sup>,

0.25–0.35 mm², 0.50–0.75 mm², 1.00–1.50 mm²

Current Carrying Capacity: up to 20 Ampere

(at 20 °C ambient temperature) **Temperature Range:** -40 °C ... +140 °C (tin-silver plated) -40 °C ... +140 °C (silver plated) -40 °C ... +150 °C (gold plated)

**Contact Resistance:** New State  $\leq 2 \text{ m}\Omega$ 

Mating Cycles:•

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

**Dimension of Male Contacts:**  $(1.2 \pm 0.1 \times 0.6 \pm 0.03 \text{ mm})$ 

Extraction Tool: Part No. 5-1579007-3

Mating Force: Max. 5 N

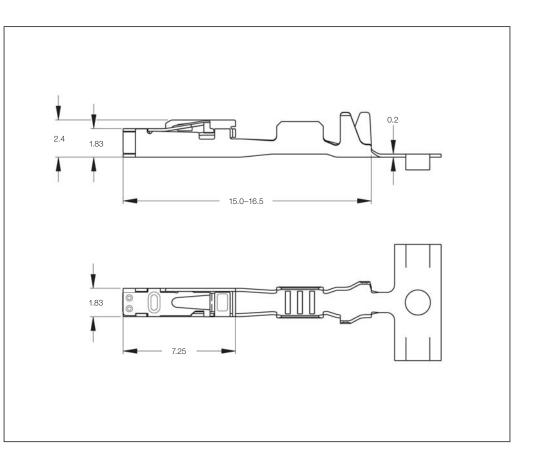
Unmating Force: Max. 2.5 N

**Product Group Drawing:** 1452674

**Product Specification:** 108-18782

Application Specification: 114-18464

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



Modular Dimensions (Centerline):

max. 0.75 mm <sup>2</sup>	2.5 x 2.5 mm	
max. 1.0 mm <sup>2</sup>	2.5 x 3.0 mm	sealed 4.0 x 4.0 mm; sealed staggered 3.5 x 4.0 mm, cavity 3.55 mm diameter
max. 1.5 mm <sup>2</sup>	2.5 x 3.5 mm 3.0 x 3.5 mm	sealed 4.5 x 4.5 mm; sealed staggered 4.0 x 4.5 mm, cavity 3.95 mm diameter

Receptacle Contacts - Locking Lance (LL) (continued)

## **Standard Receptacle Contacts (SRC)**

Wire Size	Insulation Diameter (mm)			Part Numbers								
Range			Material and Finish*	Strip	Package	Loose-	Package	A	Hand To al			
(mm²)	FLK	FLR		Form	Quantity	Piece	Quantity	Applicator *	Hand Tool			
0.25-0.35	-	1.10–1.75	-1 / -2 / -3	1452653	10,000	1452654	500	x-1528156-x	2063574-x◇			
0.50-0.75	-	1.4–1.9	-1 / -2 / -3	1452656	8,000	1452657	500	x-1528157-x	2063570-x◇			
1.0–1.5	-	1.9–2.4	-1 / -2 / -3	1452659	8,000	1452660	500	x-1528159-x	2063575-x <sup>◊</sup>			

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

Wire Size	Insulation Diameter (mm)				Part Numbers								
Range (mm <sup>2</sup> )			Material and Finish*	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator *	Hand Tool				
	FLK	FLR		Form	Quantity	Fiece	Quantity						
0.25-0.35	-	1.10-1.75	-1 / -2 / -3	1452665	6,500	1452666	500	x-1528161-x	2063573-x◇				
0.50-0.75	-	1.4–1.9	-1 / -2 / -3	1452668	6,500	1452669	500	x-1528162-x	2063537-1				
1.0-1.5	-	1.9–2.4	-1 / -2 / -3	1452671	6,500	1452672	500	x-1528163-x	2119104-1				

#### \*) Material and Finish:

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

Note: All part numbers are RoHS and ELV compliant. •) The pre- and suffix for the applicators depends on the applied termination equipment. ◊) On request.

# **Receptacle Contacts with Short Circuit Area**

Wire Size	Insulation Diameter (mm)					Par	t Numbers		
Range			Material and Finish*	Strip	Package	Loose-	Package	Applicator *	Hand Tool
(mm²)	FLK	FLR		Form	Quantity	Piece	Quantity	Applicator	Hand 1001
0.5	-	1.4–1.7	-1	1563888	8,000	1563889	500	x-1528944-x	2119105-1

#### \*) Material and Finish:

xxx-1 = CuNiSi, selective gold plated

Note: All part numbers are RoHS and ELV compliant. •) The pre- and suffix for the applicators depends on the applied termination equipment.



Receptacle Contacts - Clean Body (CB)

## **Technical Features**

**Contact Material:** CuSn 0.15/0.2; Insert Spring: CuNiSi **Contact Finish:** Tin-silver plated, selective silver plated, selective gold plated

Wire Size Range:

 $\begin{array}{c} 0.14 {-} 0.22 \ \text{mm}^2, \ 0.25 {-} 0.35 \ \text{mm}^2, \\ 0.50 {-} 0.75 \ \text{mm}^2, \ 1.00 {-} 1.50 \ \text{mm}^2 \end{array}$ 

**Current Carrying Capacity:** up to 20 Ampere

(at 20 °C ambient temperature) **Temperature Range:** -40 °C ... +140 °C (tin-silver plated) -40 °C ... +140 °C (silver plated) -40 °C ... +150 °C (gold plated)

**Contact Resistance:** 

New State  $\leq 2 \text{ m}\Omega$ 

Mating Cycles:

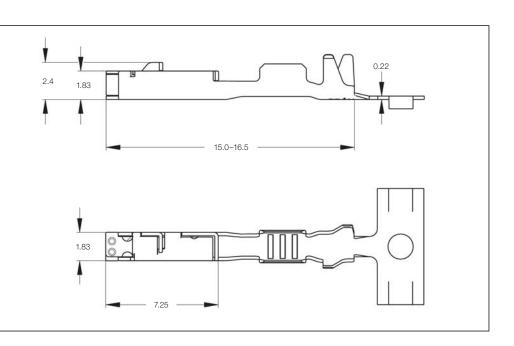
up to 20 cycles (tin-silver plated) up to 50 cycles (silver plated) up to 100 cycles (gold plated)

**Dimension of Male Contacts:**  $(1.2 \pm 0.1 \times 0.6 \pm 0.03 \text{ mm})$ 

Extraction Tools depend on the Terminal/Housing Combination

- Typically: Part Nos. **1579007-8** and **1-1579007-0** (Secondary Lock) Mating Force: Max. 5 N

Unmating Force: Max. 2.5 N



Modular Dimens max. 0.75 mm <sup>2</sup> max. 1.0 mm <sup>2</sup>	ions (Centerline): 2.5 x 2.5 mm 2.5 x 3.0 mm	sealed $4.0 \times 4.0$ mm;	Product Group Drawing: 1534326
max. 1.5 mm <sup>2</sup>	2.5 x 3.5 mm	sealed staggered 3.5 x 4.0 mm, cavity 3.55 mm diameter sealed 4.5 x 4.5 mm;	Product Specification: 108-18782
	3.0 x 3.5 mm	sealed staggered 4.0 x 4.5 mm, cavity 3.95 mm diameter	Application Specification: 114-18464

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

# Standard Receptacle Contacts (SRC)

Wire Size	Insulation Diameter (mm)			Part Numbers								
Range (mm²)			Material and Finish*	Strip	Package	Loose-	Package	Applicator •	Hand Tool			
	FLK	FLR		Form	Quantity	Piece	Quantity					
0.25-0.35	-	1.10-1.75	-1 / -2 / -3	1534594	10,000	1534595	500	x-1528147-x	2119107-x◇			
0.50-0.75	_	1.4-1.9	-1/-2/-3	1670144 <b>#</b>	8,000	1670145 <b>#</b>	500	x-1528673-x	2119108-x <sup>◊</sup>			
0.50-0.75	-	1.4-1.9	-1/-2/-3	1394897	8,000	1534063	500	x-1528148-x	2063676-x◇			
1.0–1.5	-	1.9–2.4	-1 / -2 / -3	1452503	8,000	1452504	500	x-1528150-x	2063565-x◇			

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

Wire Size	Insulation Diameter (mm)			Part Numbers								
Range			Material and Finish*	Strip	Package	Loose-	Package					
(mm²)	FLK	FLR		Form	Quantity	Piece	Quantity	Applicator *	Hand Tool			
0.14-0.22	-	1.05-1.20	-1 / -2 / -3	1418841	6,500	-	-	x-1528151-x	2119109-x◇			
0.25-0.35	-	1.10-1.75	-1 / -2 / -3	1418844	6,500	1418845	500	x-1528152-x	2119110-x <sup>◊</sup>			
0.50, 0.75		1410	1/0/0	1670146 <b>#</b>	6,500	1670147 <b>#</b>	500	x-1528674-x	2119111-x◇			
0.50–0.75	-	1.4–1.9	-1 / -2 / -3	1418847	6,500	1418848	500	x-1528153-x	2119112-x◇			
1.0–1.5	-	1.9–2.4	-1 / -2 / -3	1418850	6,500	1418851	500	x-1528154-x	2119113-x◇			

◊) On request.

# \*) Material and Finish:

xxx-1 = CuNiSi, pre-tin/silver 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. #) CAUTION: Future Strip Form Orders will be replaced.

Because of change of the wire crimp at the new Part Nos. 1670144 and 1670146 they will be processed with new crimp heights. See latest Application Specification 114-18464.



# Tab Contacts – Locking Lance (LL)

# **Technical Features**

**Contact Material:** CuNiSi; Insert Tab: CuSn 0.15/0.2

**Contact Finish:** Tin-silver plated, selective silver plated, selective gold plated

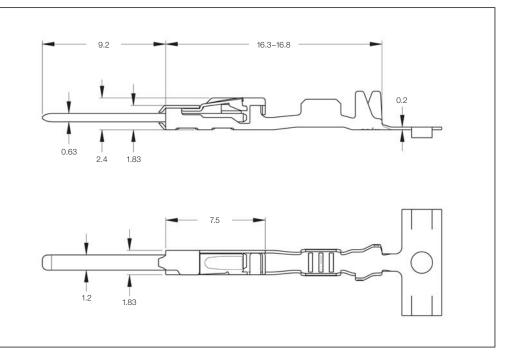
Wire Size Range: 0.14-0.22 mm<sup>2</sup>, 0.25-0.35 mm<sup>2</sup>, 0.50-0.75 mm<sup>2</sup>, 1.00-1.50 mm<sup>2</sup>

Extraction Tool: Part No. 5-1579007-3

**Product Group Drawing:** 1418754

**Product Specification:** 108-18782

**Application Specification:** 114-18464



#### **Standard Tab Contacts**

Wire Size	Insulation Diameter (mm)			Part Numbers								
Range (mm <sup>2</sup> )			Material and Finish*	Strip	Package	Loose-	Package	Annlington 🕈	Hand Tool			
	FLK	FLR		Form	Quantity	Piece	Quantity	Applicator *	Hand lool			
0.14–0.22	-	1.05–1.20	-1 / -2 / -3	1418756	9,000	1418757	500	x-1528427-x	2119102-x <sup>◊</sup>			
0.25-0.35	-	1.10-1.75	-1 / -2 / -3	1418758	9,000	1418759	500	x-1528428-x	2063574-x <sup>◊</sup>			
0.50-0.75	-	1.4–1.9	-1 / -2 / -3	1418760	8,000	1418761	500	x-1528506-x	2063570-x <sup>◊</sup>			
1.0–1.5	-	1.9–2.4	-1 / -2 / -3	1418762	7,000	1418763	500	x-1528507-x	2063575-x <sup>◊</sup>			

# Tab Contacts with Single Wire Sealing System (SWS)

Wire Size	Insulation Diameter (mm)			Part Numbers									
Range			Material and Finish*	Strip	Package	Loose-	Package	Ann liester 🕈	Hand Tool				
(mm²)	FLK	FLR		Form	Quantity	Piece	Quantity	Applicator *	Hand Tool				
0.14-0.22	_	1.05-1.20	-1 / -2 / -3	1718756	6,500	-	_	x-1528508-x	2119103-1				
0.25–0.35	-	1.10–1.75	-1 / -2 / -3	1718758	6,500	1718759	500	x-1528509-x	2063573-x◇				
0.50–0.75	-	1.4–1.9	-1 / -2 / -3	1718760	6,000	1718761	500	x-1528510-x	2063537-1				
1.0–1.5	-	1.9–2.4	-1 / -2 / -3	1718762	6,000	1718763	500	x-1528511-x	2119104-1				

# \*) Material and Finish:

xxx-1 = CuNiSi, pre-tin xxx-2 = CuNiSi, selective gold plated xxx-3 = CuNiSi, selective silver plated Note: All part numbers are RoHS and ELV compliant.  The pre- and suffix for the applicators depends on the applied termination equipment. ◊) On request.



Tab Contacts - Clean Body (CB)



**Contact Material:** CuSn 0.15/0.2; Insert Tab: CuSn 0.15/0.2

**Contact Finish:** Tin-silver plated, selective silver plated, selective gold plated

Wire Size Range: 0.25-0.35 mm<sup>2</sup>, 0.50-0.75 mm<sup>2</sup>

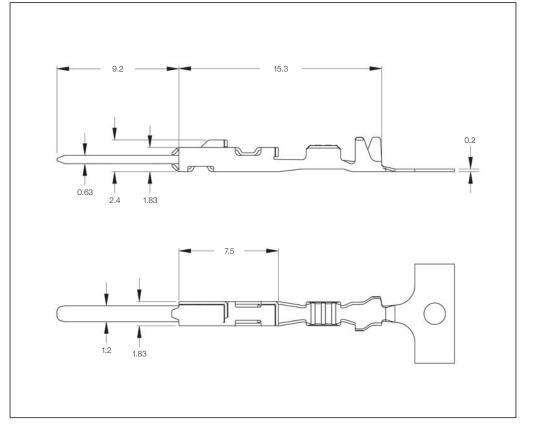
# **Modular Dimensions**

(Centerline): max. 0.75 mm<sup>2</sup> 2.5 x 2.5 mm max. 1.0 mm<sup>2</sup> 2.5 x 3.0 mm max. 1.5 mm<sup>2</sup> 2.5 x 3.5 mm 3.0 x 3.5 mm

**Product Group Drawing:** 1718398

**Product Specification:** 108-18782

**Application Specification:** 114-18464



#### **Standard Tab Contacts**

Wire Size		n Diameter			Part Numbers								
Range	(mm)		Material and Finish*	Strip	Package	Loose-	Package	A					
(mm²)	FLK	FLR		Form	Quantity	Piece	Quantity	Applicator *	Hand Tool				
0.25–0.35	-	1.10–1.75	-1 / -2 / -3	1718348	9,000	1703698	500	x-1528156-x	2063574-x <sup>◊</sup>				
0.50–0.75	-	1.4–1.9	-1 / -2 / -3	1718350	8,000	1718390	500	x-1528157-x	2063570-x <sup>◊</sup>				

# \*) Material and Finish:

xxx-1 = CuNiSi, pre-tin

xxx-2 = CuNiSi, selective gold plated xxx-3 = CuNiSi, selective silver plated

Note: All part numbers are RoHS and ELV compliant. •) The pre- and suffix for the applicators depends on the ◊) On request.

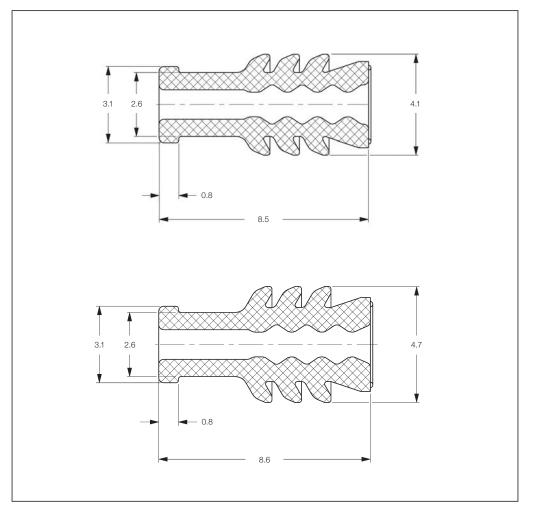
applied termination equipment.

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Single Wire Seals and Sealing Plugs

Single Wire Seals and Sealing Plugs for MCON Contact System (Cavity Diameter 3.55 mm and 3.95 mm)



## Cavity Diameter 3.55 mm

Insulation	n Diameter			Deekers
FLK (mm)	FLR (mm)	Color	Part Number	Package Quantity
-	0.9–1.4	Yellow	967067-2	20,000
-	1.4-2.1	Green	967067-1	20,000
Sealir	ng Plug	Blue	967056-1	5,000

# Cavity Diameter 3.95 mm

Insulation	n Diameter			Package Quantity	
FLK (mm)	FLR (mm)	Color	Part Number		
-	0.9–1.9	Gray	963142-2	20,000	
-	1.9–2.4	Green	967067-1	20,000	
Sealing Plug		White	963143-1	20,000	



**Receptacle Contacts** 

# **Technical Features**

Contact Material: CuSn 0.15/0.2; Insertion Spring: CuNiSi

**Contact Finish:** Tin-silver plated, selective silver plated

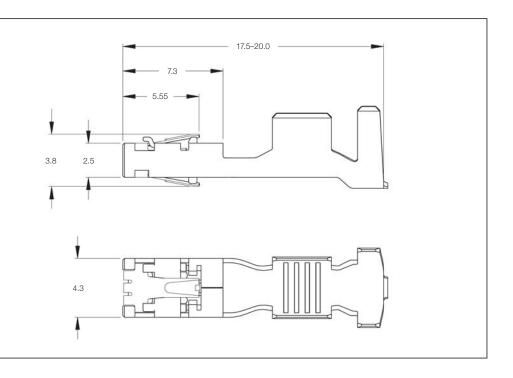
**Wire Size Range:** 0.20–0.35 mm<sup>2</sup>, 0.50 mm<sup>2</sup>, 0.75–1.00 mm<sup>2</sup>, >1.0–2.5 mm<sup>2</sup> >2.5–4.0 mm<sup>2</sup>

Extraction Tool: Part No. 5-1579008-2

**Product Group Drawing:** 1719797

Product Specification: 108-94002

Application Specification: 114-18718



Modular Dimensions (Centerline):max. 2.5 mm²5.0 x 5.5 mmstaggered 4.5 x 5.5 mmmax. 4.0 mm²5.5 x 5.5 mmstaggered 5.0 x 5.5 mm

sealed 5.5 x 5.5 mm sealed staggered 5.0 x 5.5 mm cavity diameter 4.9 mm

sealed 7.2 x 7.2 mm sealed staggered 6.0 x 7.2 mm cavity diameter 6.4 mm

# **Standard Receptacle Contacts**

Range (mm²)      (mm)      Material and Finish*      Strip Form      Package Quantity      Loose- Piece      Package Quantity      Applicator *      Har        0.20-0.35      -      1.15-1.40      -1 / -3      1719836      2,500      1719837      500      x-1528691-x      211        0.50      -      1.4-1.6      -1 / -3      1563719      2,500      1563720      500      x-1528899-x      211        0.75-1.00      -      1.7-2.1      -1 / -3      1719838      2,500      1719839      500      x-1528632-x      211	Wire Size Insulation Diameter				Part Numbers							
FLK      FLR      Form      Quantity      Piece      Quantity      Piece <th< th=""><th>Range</th><th>(m</th><th>ım)</th><th></th><th>Strip</th><th>Package</th><th>Loose-</th><th>Package</th><th>A</th><th>Hand To al</th></th<>	Range	(m	ım)		Strip	Package	Loose-	Package	A	Hand To al		
0.50      -      1.4-1.6      -1 / -3      1563719      2,500      1563720      500      x-1528899-x      211        0.75-1.00      -      1.7-2.1      -1 / -3      1719838      2,500      1719839      500      x-1528632-x      211	(mm²)	FLK	FLR		Form	Quantity	Piece	Quantity	Applicator *	Hand Tool		
0.75-1.00 - 1.7-2.1 -1/-3 1719838 2,500 1719839 500 x-1528632-x	0.20-0.35	-	1.15-1.40	-1 / -3	1719836	2,500	1719837	500	x-1528691-x	2119119-x¢		
0.75–1.00 – 1.7–2.1 -1/-3 1719838 2,500 1719839 500 x-1528632-x	0.50	-	1.4–1.6	-1 / -3	1563719	2,500	1563720	500	x-1528899-x	2119120-x◇		
>10-25 - 22-30 -1/-3 1719840 2.500 1719841 500 x-1528633-x 211	0.75–1.00	-	1.7–2.1	-1 / -3	1719838	2,500	1719839	500	x-1528632-x	2119120-X *		
	>1.0-2.5	-	2.2–3.0	-1 / -3	1719840	2,500	1719841	500	x-1528633-x	2119121-x¢		
>2.5-4.0 - 3.4-3.7 -1/-3 1718475 2,500 1718477 500 x-1528585-x 211	>2.5-4.0	-	3.4–3.7	-1 / -3	1718475	2,500	1718477	500	x-1528585-x	2119122-x¢		

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

Wire Size	Insulation Diameter			Part Numbers								
Range (mm <sup>2</sup> )	(n	nm)	Material and Finish*	Strip	Package	Loose-	Package	Applicator *	Hand Tool			
(11111-)	FLK	FLR		Form	Quantity	Piece	Quantity	Applicator				
0.50	-	1.4-1.6	-1 / -3	1563935	2,500	1563936	500	-	-			
0.75-1.00	-	1.7–2.1	-1 / -3	1670802	2,500	1670803	500	x-1528773-x	2119123-x <sup>◊</sup>			
>1.0–2.5	-	2.2–3.0	-1 / -3	1670804	2,500	1670805	500	x-1528774-x	2119124-x <sup>◊</sup>			
>2.5-4.0	-	3.4–3.7	-1 / -3	1670806	2,500	1670807	500	x-1528775-x	2119125-x <sup>◊</sup>			

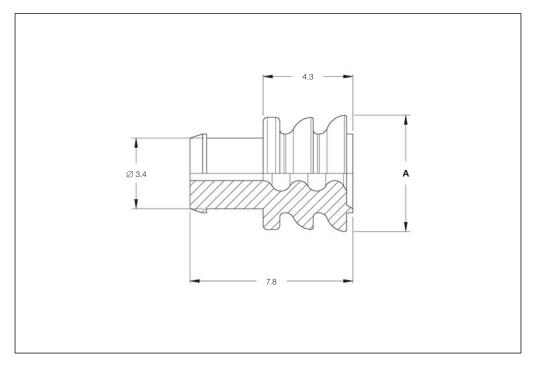
\*) Material and Finish:

xxx-1 = CuNiSi, pre-tin/silver plated xxx-3 = CuNiSi, selective silver plated Note: All part numbers are RoHS and ELV compliant.  The pre- and suffix for the applicators depends on the applied termination equipment.  $^\diamond)$  On request.



Single Wire Seals and Sealing Plugs

Single Wire Seals and Sealing Plugs for MCON Contact System (Cavity Diameter 4.9 mm and 6.4 mm)



# **Cavity Diameter 4.9 mm**

Wire Size Range (mm)	Insulation Diameter (mm)	Color	Diameter A (mm)	Part Number	Package Quantity
0.75-1.00	1.4-2.1	Blue	5.6	828904-1	1,000
0.75-1.00	1.4-2.1	Diue	5.0	828904-2	10,000
>1.5-2.5	2.2–3.0	White	5.6	828905-1	10,000
Sealin	g Plug	Natural	5.6	828922-1	10,000

## Cavity Diameter 6.4 mm

Wire Size Range (mm)	Insulation Diameter (mm)	Color	Diameter A (mm)	Part Number	Package Quantity
>2.5-4.0	3.4–3.7	Green	7.2	828985-1	5,000
Sealing Plug		Brown	7.2	828986-1	5,000



**Engineering Notes** 

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Systems

# Introduction



**MCON Connectors offer Highest Reliability for** Use in the Automotive Industry



The New Generation MCON Connector System offers receptacle and tab housings with capability for waterproofing and resistance to conditions of extreme vibration.

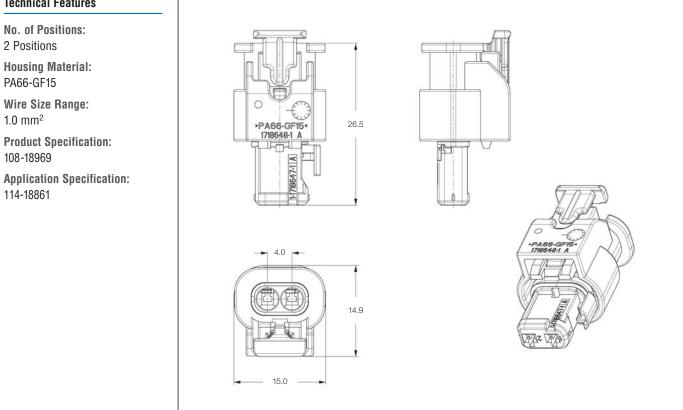
The system is designed for electronic and electrical applications in motor vehicles, where vibrations and mechanical stress, in the long term, can affect the quality on the contact system.

# **Features**

- CPA (Connector Position Assurance) capability
- 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)
- Polarization, several keyings
- Locking mechanism for smaller connectors/mating aid for higher numbers of ways



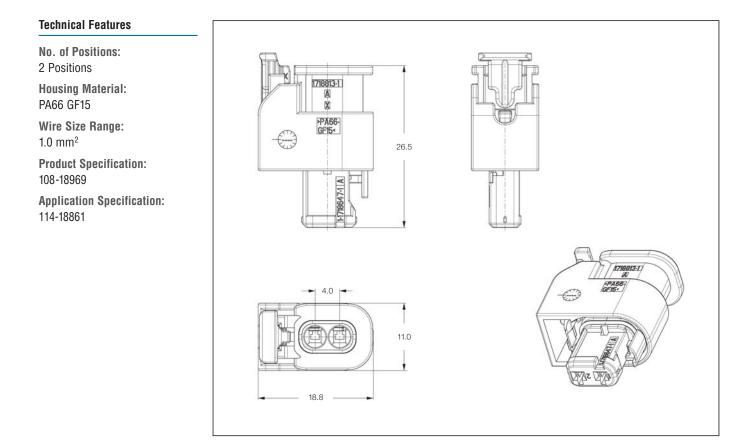


#### Sealed 1.2 mm Receptacle Housings

No. of	Koving	Housing Color		Part Numbers							
No. of Positions	Keying Options		Receptacle Housing	Cover	Mating Tab Housing	Mating PCE Right-Angle	B Header Vertical				
2	А	Black	1-1718643-1	-	-	-	-				

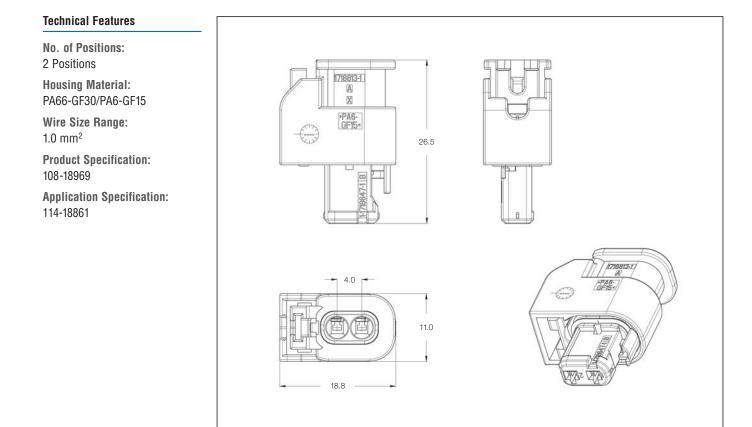
# **Technical Features**





No. of	Kauina	Housing Color		Part Numbers							
No. of Positions	Keying Options		Receptacle Housing	Cover	Mating Tab Housing	Mating PCE Right-Angle	Header Vertical				
2	А	Black	1-1718811-1	-	-	-	-				





No. of	Kauina						
No. of Positions	Keying Options	Housing Color	Receptacle Housing	Cover	Mating Tab Housing	Mating PCE Right-Angle	Header Vertical
2	A	Black	1-1564440-1	-	-	-	-





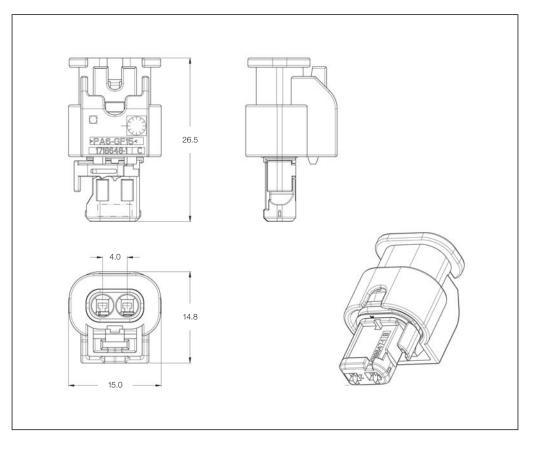
No. of Positions: 2 Positions

Housing Material: PA66-GF30/PA6-GF15

Wire Size Range: 1.0 mm<sup>2</sup>

**Product Specification:** 108-18969

**Application Specification:** 114-18861



No. of	Koving	Housing Color		Part Numbers							
No. of Positions	Keying Options		Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Right-Angle	Header Vertical				
2	А	Black	1-1670915-1	-	-	-	-				





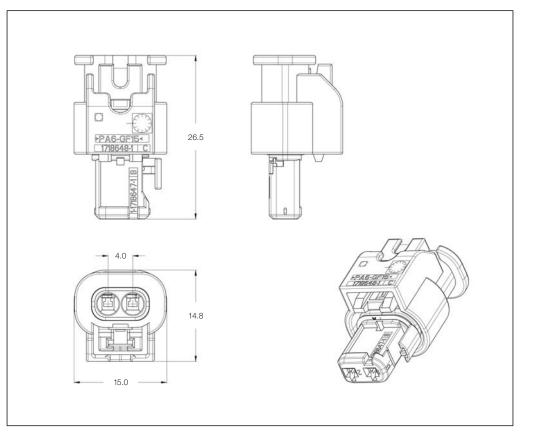
No. of Positions: 2 Positions

Housing Material: PA66-GF30/PA6-GF15

Wire Size Range: 1.0 mm<sup>2</sup>

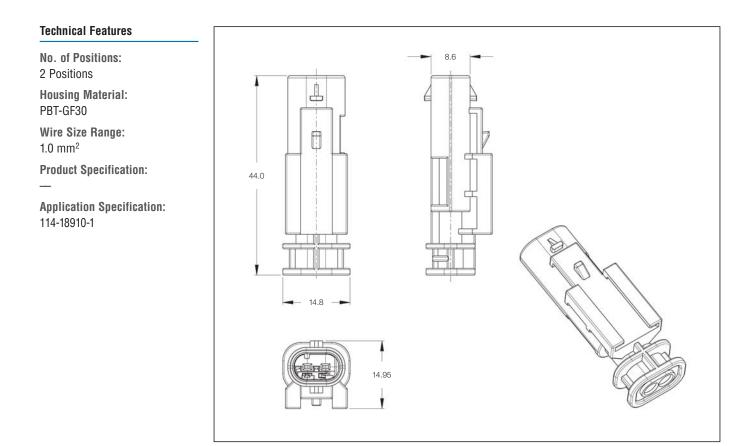
**Product Specification:** 108-18969

**Application Specification:** 114-18861



No. of	Kauina			Part Numbers							
No. of Positions	Keying Options	Housing Color	Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Right-Angle	Header Vertical				
0	А	Black	1-1670916-1	-	1-1703498-1	-	-				
2	В	Natural	2-1670916-1	-	-	-	-				

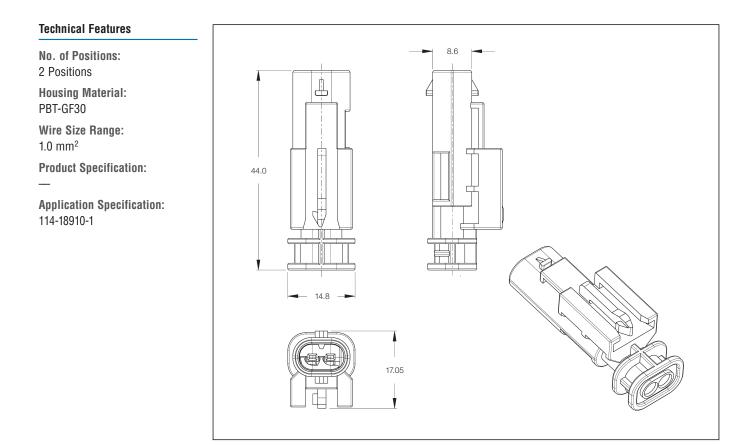




#### Sealed 1.2 mm Tab Housings

No. of	Kauing		Part Numbers							
No. of Positions	Keying Options	Housing Color	Tab Housing	Cover	Mating Receptacle Housing	Mating PCB Right-Angle	Header Vertical			
2	А	Black	1-1703498-1	-	1-1670916-1	_	-			

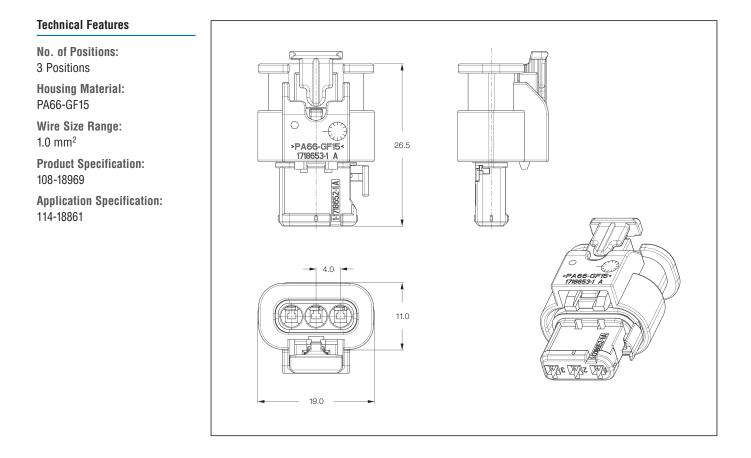




#### Sealed 1.2 mm Tab Housings

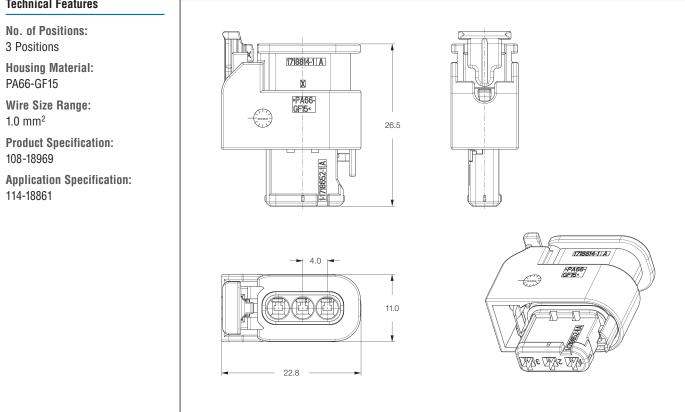
No. of	K as size as		Part Numbers						
No. of Positions	Keying Options	Housing Color	Tab Housing	Cover	Mating Receptacle Housing	Mating PCB Right-Angle	Header Vertical		
2	A	Black	1-1703498-2	-	1-1670916-1	-	-		





No. of	Kaudaan	Keying Housing Options Color		Part Numbers					
No. of Positions			Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Right-Angle	Header Vertical		
3	A	Black	1-1718644-1	-	-	-	-		





#### Sealed 1.2 mm Receptacle Housings

No. of		Part Numbers						
No. of Positions	Keying Options	Housing Color	Receptacle Housing	Cover	Mating Tab Housing	Mating PCE Right-Angle	Header Vertical	
3	A	Black	1-1718812-2	-	-	-	-	

# **Technical Features**





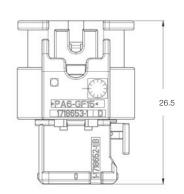
No. of Positions: 3 Positions

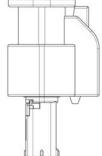
Housing Material: PA66-GF30/PA6-GF15

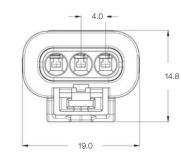
Wire Size Range: 1.0 mm<sup>2</sup>

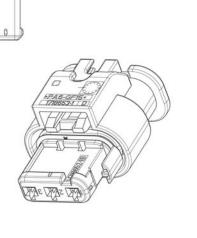
**Product Specification:** 108-18969

**Application Specification:** 114-18861



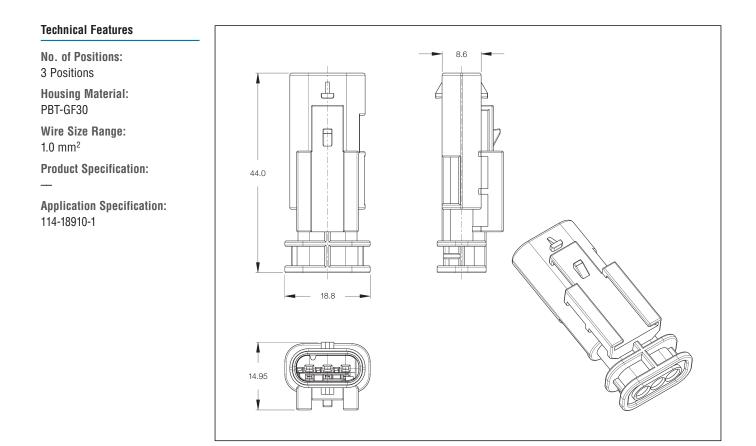






No. of Positions	Keying Options			Part Numbers						
			Receptacle Housing	Cover	Mating Tab Housing	Mating PCE Right-Angle	B Header Vertical			
	А	Black	1-1670917-1	-	1-1703494-1	-	-			
3	В	Natural	2-1670917-1	-	-	-	-			

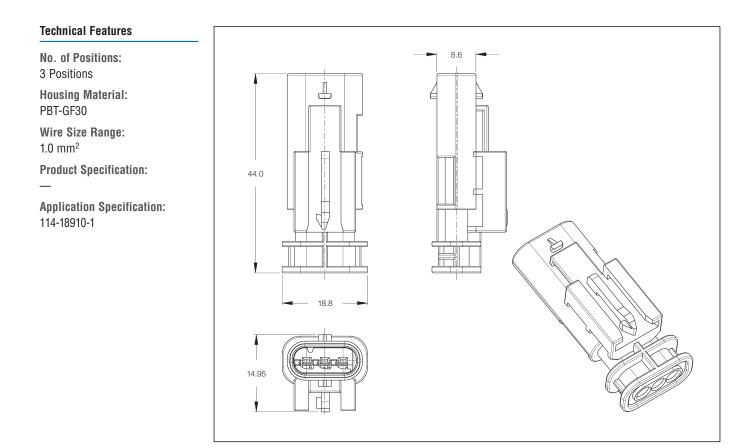




#### Sealed 1.2 mm Tab Housings

No. of	Kauina				Part Numbers			
Positions	Keying Options	Housing Color	Tab Housing	Cover	Mating Receptacle Housing	Mating PCB Right-Angle	Header Vertical	
3	A	Black	1-1703494-1	-	1-1670917-1	-	-	

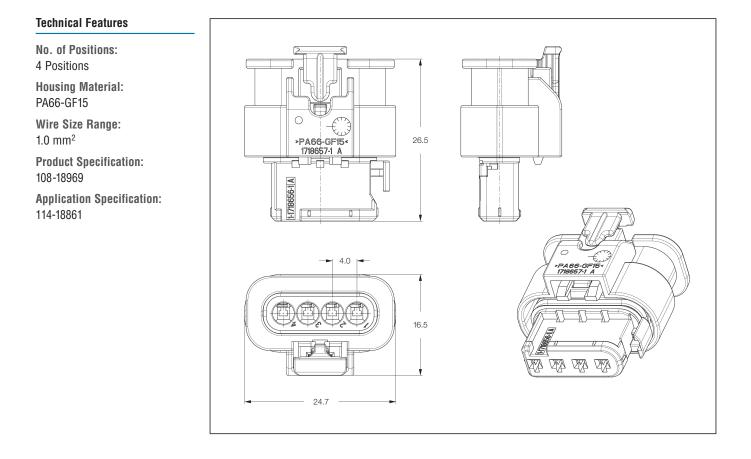




#### Sealed 1.2 mm Tab Housings

No. of	Kauina	Keying Housing Options Color		Part Numbers						
No. of Positions			Tab Housing	Cover	Mating Receptacle Housing	Mating PCB Right-Angle	Header Vertical			
3	A	Black	1-1703494-2	-	1-1670917-1	-	-			





No. of	Kauing		Part Numbers					
Positions	Keying Options	Housing Color	Receptacle Housing	Cover	Mating Tab Housing	Mating PCE Right-Angle	B Header Vertical	
4	А	Black	1-1718645-1	-	-	-	-	





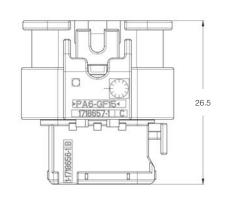
No. of Positions: 4 Positions

Housing Material: PA66-GF30/PA6-GF15

Wire Size Range: 1.0 mm<sup>2</sup>

**Product Specification:** 108-18969

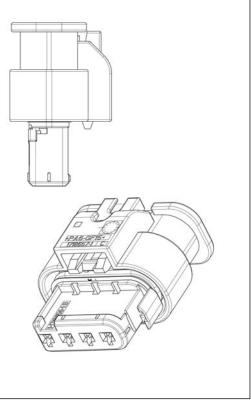
**Application Specification:** 114-18861



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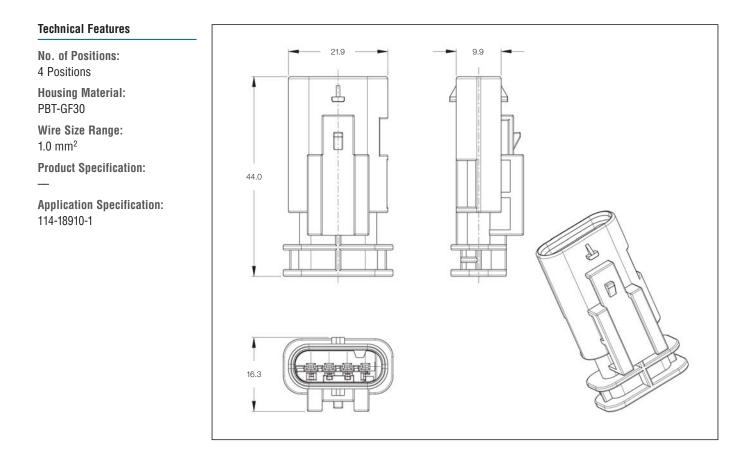
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No. of Positions	Kauina	Keying Housing Options Color		Part Numbers					
			Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Right-Angle	Header Vertical		
4	А	Black	1-1670918-1	-	1-1564559-1	-	-		
4	В	Natural	2-1670918-1	-	-	-	-		

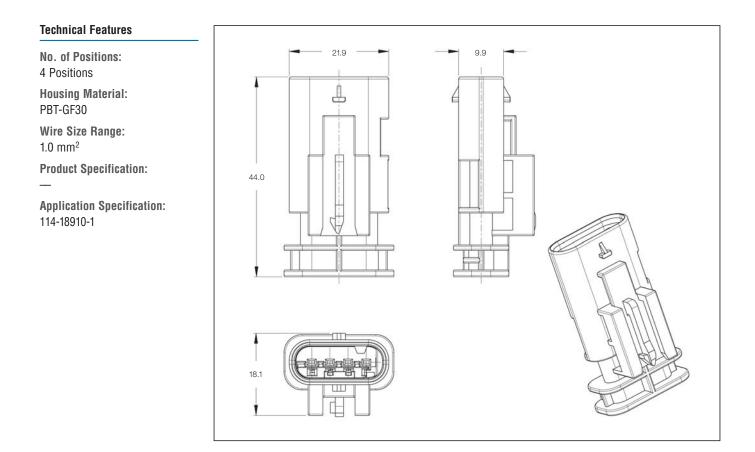




#### Sealed 1.2 mm Tab Housings

No. of	Kassinan			Part Numbers						
No. of Positions	Options	Keying Housing Options Color	Tab Housing	Cover	Mating Receptacle Housing	Mating PCB Right-Angle	Header Vertical			
4	А	Black	1-1564559-1	-	1-1670918-1	-	-			

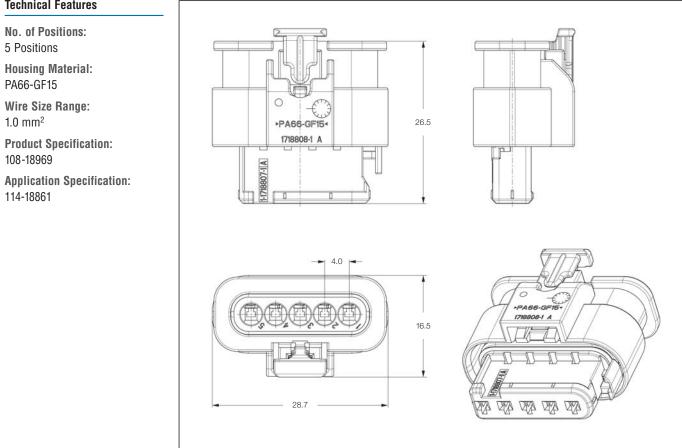




#### Sealed 1.2 mm Tab Housings

No. of	Kasalaan		Part Numbers						
Positions	Keying Options	Housing Color	Tab Housing	Cover	Mating Receptacle Housing	Mating PCB Right-Angle	Header Vertical		
4	А	Black	1-1564559-2	-	1-1670918-1	-	-		





# Sealed 1.2 mm Receptacle Housings

No. of	- Karing	Kasima		Part Numbers						
Positi		Housing Color	Receptacle Housing	Cover	Mating Tab Housing	Mating PCE Right-Angle	B Header Vertical			
5	A	Black	1-1718806-1	-	-	-	-			

**Technical Features** 



# Sealed 1.2 mm Receptacle Housings for Locking Lance Contacts



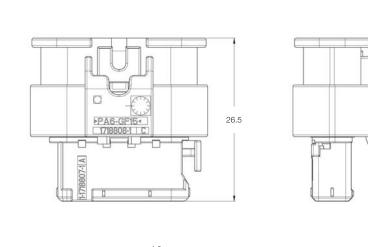
No. of Positions: 5 Positions

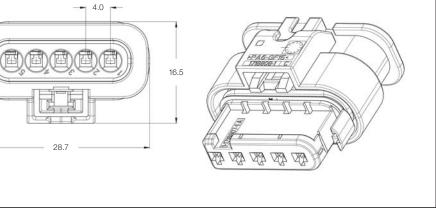
Housing Material: PA66-GF30/PA6-GF15

Wire Size Range: 1.0 mm<sup>2</sup>

**Product Specification:** 108-18969

**Application Specification:** 114-18861

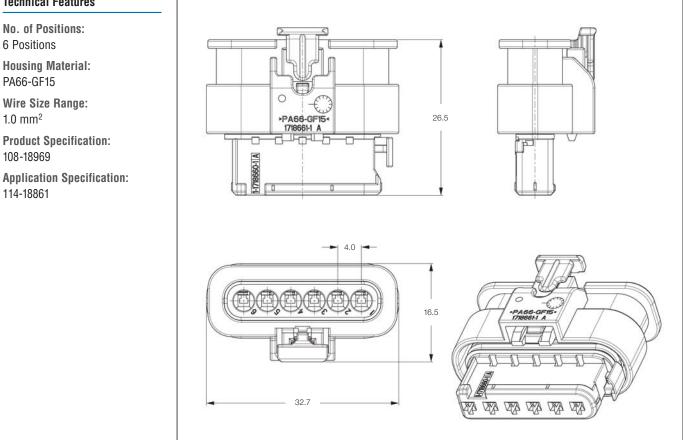




No. of	Kasainan			Part Numbers					
Positions	Keying Options	Housing Color	Receptacle Housing	Cover	Mating Tab Housing	Mating PCE Right-Angle	B Header Vertical		
5	А	Black	1-1670921-1	_	_	_	_		
5	В	Natural	2-1670921-1	-	-	-	-		



# Sealed 1.2 mm Receptacle Housings for Locking Lance Contacts



#### Sealed 1.2 mm Receptacle Housings

No. of	Kauing						
No. of Positions	Keying Options	Housing Color	Receptacle Housing	Cover	Mating Tab Housing	Mating PCE Right-Angle	3 Header Vertical
6	А	Black	1-1718646-1	-	-	-	-

# **Technical Features**

6 Positions

PA66-GF15

Wire Size Range: 1.0 mm<sup>2</sup>

**Product Specification:** 108-18969

114-18861



# Sealed 1.2 mm Receptacle Housings for Locking Lance Contacts



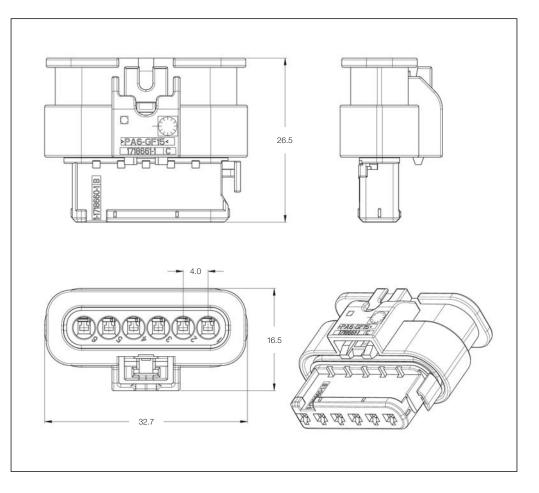
No. of Positions: 6 Positions

Housing Material: PA66-GF30/PA6-GF15

Wire Size Range: 1.0 mm<sup>2</sup>

**Product Specification:** 108-18969

**Application Specification:** 114-18861



No. of	Kauina				Part Numbers		
No. of Positions	Keying Options	Housing Color	Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Right-Angle	B Header Vertical
6	А	Black	1-1670919-1	-	-	-	-



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# Sealed 1.2 mm Receptacle Housings for Clean Body Contacts



No. of Positions: 2 Positions

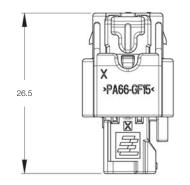
Housing Material: PA66-GF15 for outer housing, PA66-GF35 for inner housing

Wire Size Range: 0.5–1.5 mm<sup>2</sup>

Product Specification:

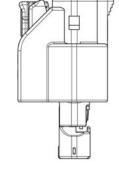
Application Specification: 408-8928

- For use with Clean Body Contacts Numbers 1418847 and 1418850.
- Can be used with or without CPA (Connector Position Assurance).



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#### Sealed 1.2 mm Receptacle Housings - Standard Latch without CPA

No. of	K as size as			Part Numbers						
No. of Positions	Keying Options	Housing Color	Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Right-Angle	Header Vertical			
	А	Black	1-1924067-1							
2	В	Natural	1-1924067-2	-	-	-	-			
	С	Blue	1-1924067-3							

#### Sealed 1.2 mm Receptacle Housings – Standard Latch with CPA

No. of	Kauina	Housing Color		Part Numbers						
No. of Positions	Keying Options		Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Right-Angle	Header Vertical			
	А	Black	1-1924067-4							
2	В	Natural	1-1924067-5	-	-	-	-			
	С	Blue	1-1924067-6							



# Sealed 1.2 mm Receptacle Housings for Clean Body Contacts



No. of Positions: 3 Positions

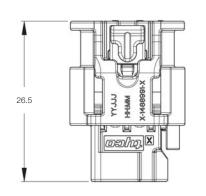
Housing Material: PA66-GF35

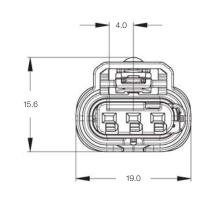
Wire Size Range: 0.5–1.5 mm<sup>2</sup>

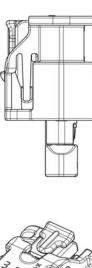
Product Specification:

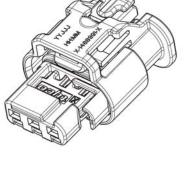
Application Specification: 408-8928

- For use with Clean Body Contacts Numbers 1418847 and 1418850.
- Can be used with or without CPA (Connector Position Assurance).
- Blocked circuits versions are available (see customer drawing for released options).









#### Sealed 1.2 mm Receptacle Housings - Standard Latch without CPA

No. of	Kaning	Housing Color	Part Numbers					
No. of Positions	Keying Options		Receptacle Housing	Cover	Mating Tab Housing	Mating PCE Right-Angle	Header Vertical	
	А	Black	1488991-1					
3	В	Natural	1488991-2					
3	С	Blue	1488991-3	_	-	-	-	
	D	Gray	1488991-4					

## Sealed 1.2 mm Receptacle Housings - Standard Latch with CPA

No. of	Keying Options	Housing Color		Part Numbers						
No. of Positions			Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Right-Angle	Header Vertical			
	А	Black	1488991-5							
0	В	Natural	1488991-6							
3	С	Blue	1488991-7	-	-	-	-			
	D	Gray	1488991-8							



# Sealed 1.2 mm Receptacle Housings for Clean Body Contacts



No. of Positions: 3 Positions

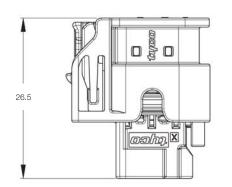
Housing Material: PA66-GF35

Wire Size Range: 0.5–1.5 mm<sup>2</sup>

Product Specification:

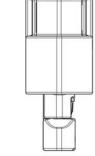
Application Specification: 408-8928

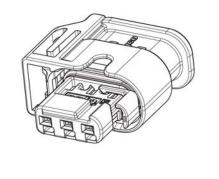
- For use with Clean Body Contacts Numbers 1418847 and 1418850.
- Can be used with or without CPA (Connector Position Assurance).
- Blocked circuits versions are available (see customer drawing for released options).



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# Sealed 1.2 mm Receptacle Housings - Low Profile Latch without CPA

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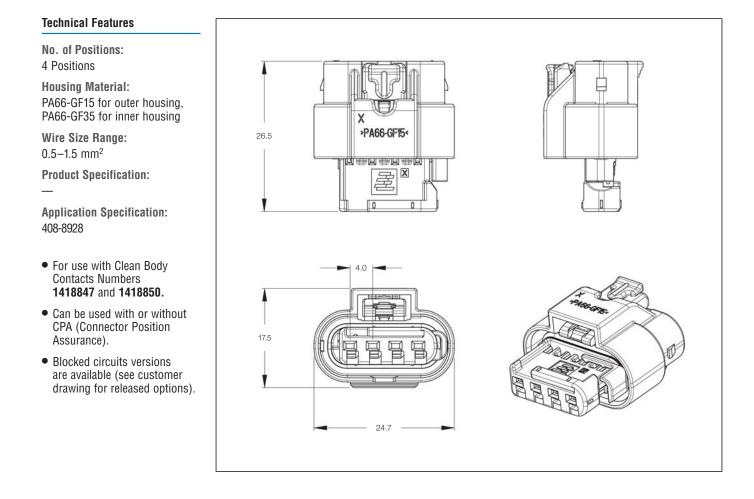
No. of	Keying Options	Housing Color	Part Numbers						
No. of Positions			Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Right-Angle	Header Vertical		
	А	Black	1488992-1						
3	В	Natural	1488992-2						
3	С	Blue	1488992-3	-	-	-	-		
	D	Gray	1488992-4						

## Sealed 1.2 mm Receptacle Housings - Low Profile Latch with CPA

No. of	Keying Options	Housing Color		Part Numbers						
No. of Positions			Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Right-Angle	Header Vertical			
	А	Black	1488992-5							
2	В	Natural	1488992-6							
3	С	Blue	1488992-7	-	-	-	-			
	D	Gray	1488992-8							



# Sealed 1.2 mm Receptacle Housings for Clean Body Contacts



#### Sealed 1.2 mm Receptacle Housings - Standard Latch without CPA

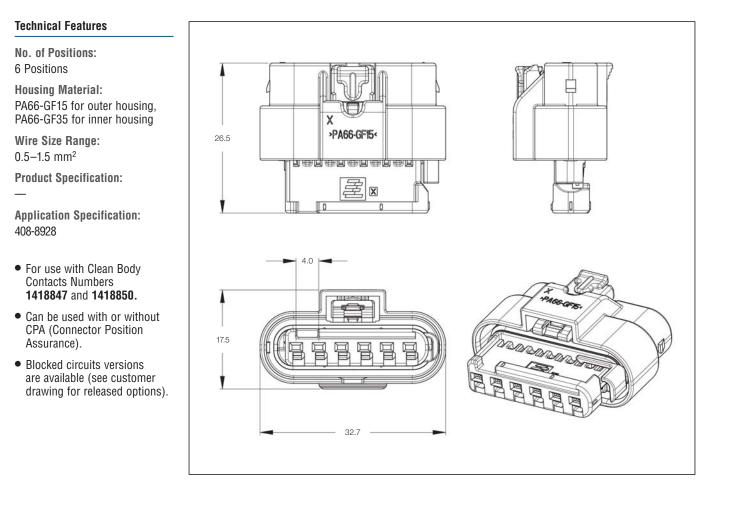
No. of	Kardan	Housing Color	Part Numbers					
No. of Positions	Keying Options		Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Right-Angle	Header Vertical	
	А	Black	1-1456426-1					
4	В	Natural	1-1456426-2					
4	С	Blue	1-1456426-3	-	-	-	-	
	D	Gray	1-1456426-4					

## Sealed 1.2 mm Receptacle Housings - Standard Latch with CPA

	Keying Options	Housing Color	Part Numbers						
No. of Positions			Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Right-Angle	Header Vertical		
	А	Black	1-1456426-5						
4	В	Natural	1-1456426-6						
4	С	Blue	1-1456426-7	_	-	-	-		
	D	Gray	1-1456426-8						



# Sealed 1.2 mm Receptacle Housings for Clean Body Contacts



#### Sealed 1.2 mm Receptacle Housings - Standard Latch without CPA

No. of	Kandara	Housing Color	Part Numbers					
No. of Positions	Keying Options		Receptacle Housing	Cover	Mating Tab Housing	Mating PCE Right-Angle	B Header Vertical	
	А	Black	1924292-1					
6	В	Natural	1924292-2					
0	С	Blue	1924292-3	_	-	-	-	
	D	Gray	1924292-4					

# Sealed 1.2 mm Receptacle Housings – Standard Latch with CPA

No. of	Kardina	Housing Color		Part Numbers						
No. of Positions	Keying Options		Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Right-Angle	Header Vertical			
	А	Black	1924292-5							
ŝ	В	Natural	1924292-6							
6	С	Blue	1924292-7	-	-	-	-			
	D	Gray	1924292-8							



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828904-2	4-11	1418848-1	4-6	1452672-2	4-5	1-1579007-0	4-6
828905-1	4-11	1418848-2	4-6	1452672-3	4-5	5-1579007-3	4-4, 4-7
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828985-1	4-11	1418850-1	4-6	1-1456426-2	4-37	1670144-1	4-6
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963142-2	4-9	1418850-3	4-6	1-1456426-4	4-37	1670144-3	4-6
963143-1	4-9	1418851-1	4-6	1-1456426-5	4-37	1670145-1	4-6
967056-1	4-9	1418851-2	4-6	1-1456426-6	4-37	1670145-2	4-6
967067-1	4-9	1418851-3	4-6	1-1456426-7	4-37	1670145-3	4-6
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