

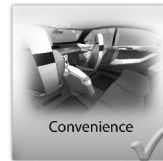
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Engineering Notes

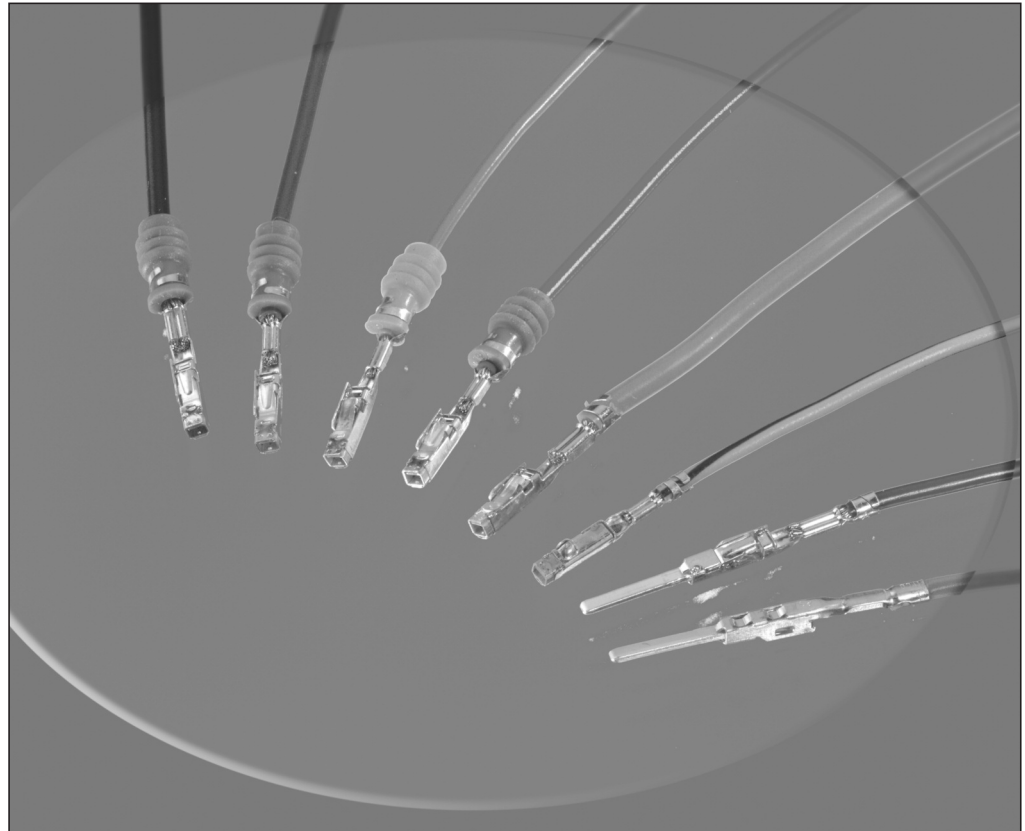
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## Introduction



## 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 damage
- Good 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 TE Connectivity 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 mm<sup>2</sup>,  
0.50–0.75 mm<sup>2</sup>,  
1.00–1.50 mm<sup>2</sup>

**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:**

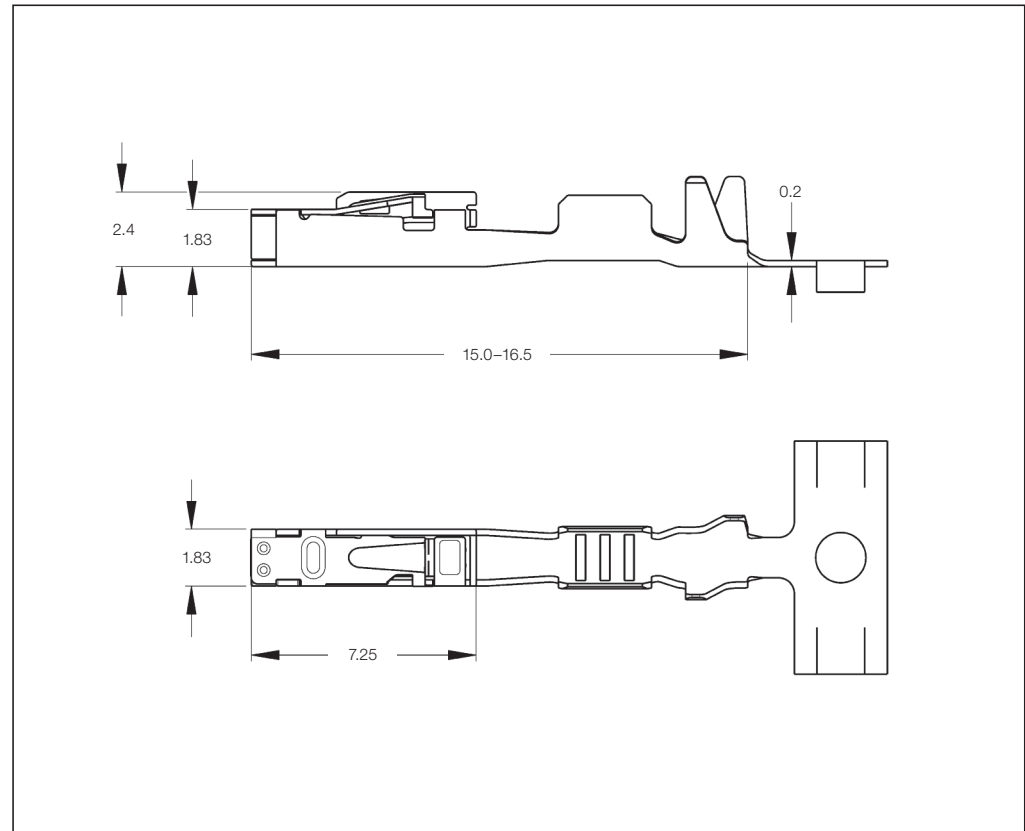
1452674

**Product Specification:**

108-18782

**Application Specification:**

114-18464



**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	sealed 4.5 x 4.5 mm; sealed staggered 4.0 x 4.5 mm, cavity 3.95 mm diameter
	3.0 x 3.5 mm	

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

Receptacle Contacts – Locking Lance (LL) (continued)

**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
0.25–0.35	–	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 ◇

**Receptacle Contacts with 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
0.25–0.35	–	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 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	–	1.4–1.7	-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:**

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>

**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 ≤ 2 mΩ

**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:**

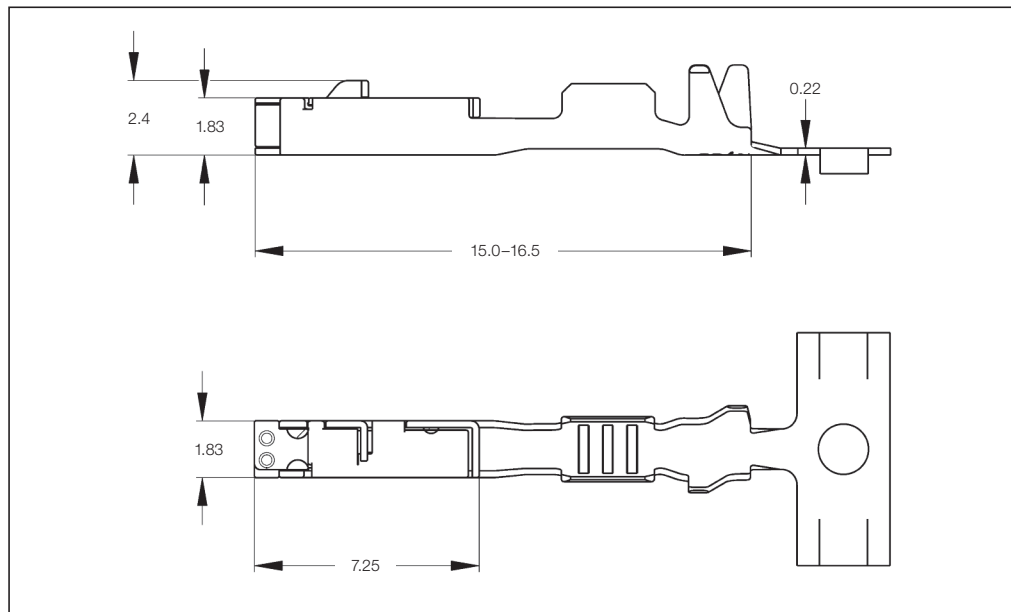
(1.2 ±0.1 x 0.6 ±0.03 mm)

**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 Dimensions (Centerline):**

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

1534326

**Product Specification:**

108-18782

**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 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
0.25–0.35	–	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#	8,000	1670145#	500	x-1528673-x	2119108-x ◊
				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 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
0.14–0.22	–	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 ◊
0.50–0.75	–	1.4–1.9	-1 / -2 / -3	1670146#	6,500	1670147#	500	x-1528674-x	2119111-x ◊
				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 ◊

**\*) 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.

◊) On request.

**#) 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: CuSn0.15/0.2

**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:**

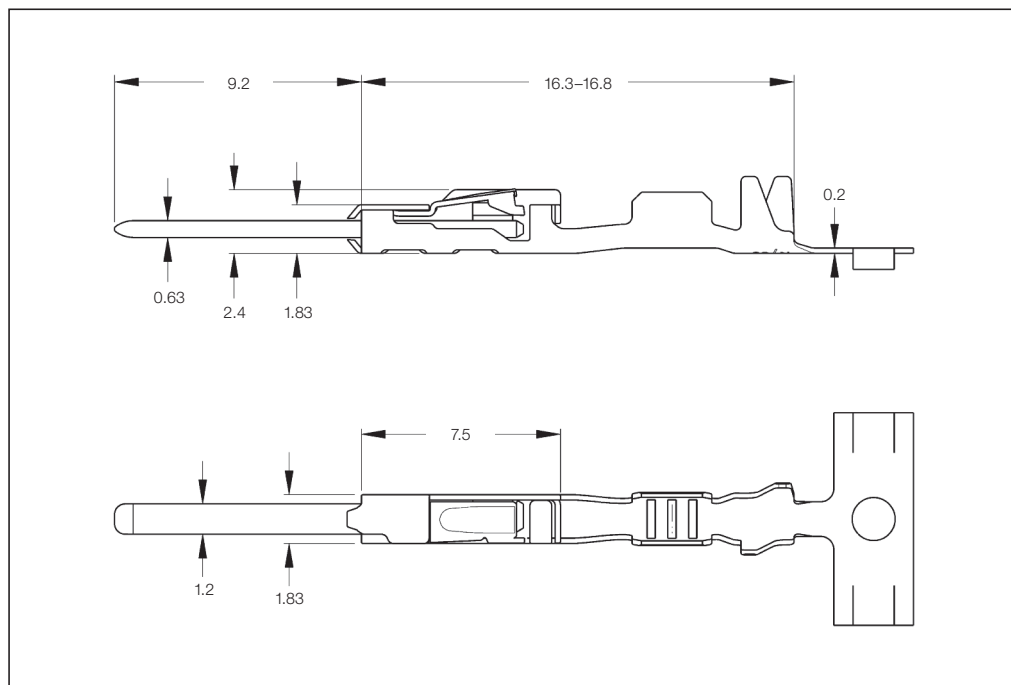
1418754

**Product Specification:**

108-18782

**Application Specification:**

114-18464



**Modular Dimensions (Centerline):**

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

**Standard Tab Contacts**

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
0.14–0.22	–	1.05–1.20	-1 / -2 / -3	1418756	9,000	1418757	500	x-1528427-x	2119102-x ◇
0.25–0.35	–	1.10–1.75	-1 / -2 / -3	1418758	9,000	1418759	500	x-1528428-x	2063574-x ◇
0.50–0.75	–	1.4–1.9	-1 / -2 / -3	1418760	8,000	1418761	500	x-1528506-x	2063570-x ◇
1.0–1.5	–	1.9–2.4	-1 / -2 / -3	1418762	7,000	1418763	500	x-1528507-x	2063575-x ◇

**Tab Contacts with 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
0.14–0.22	–	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)

**Technical Features**

**Contact Material:**

CuSn0.15/0.2;  
Insert Tab: CuSn0.15/0.2

**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:**

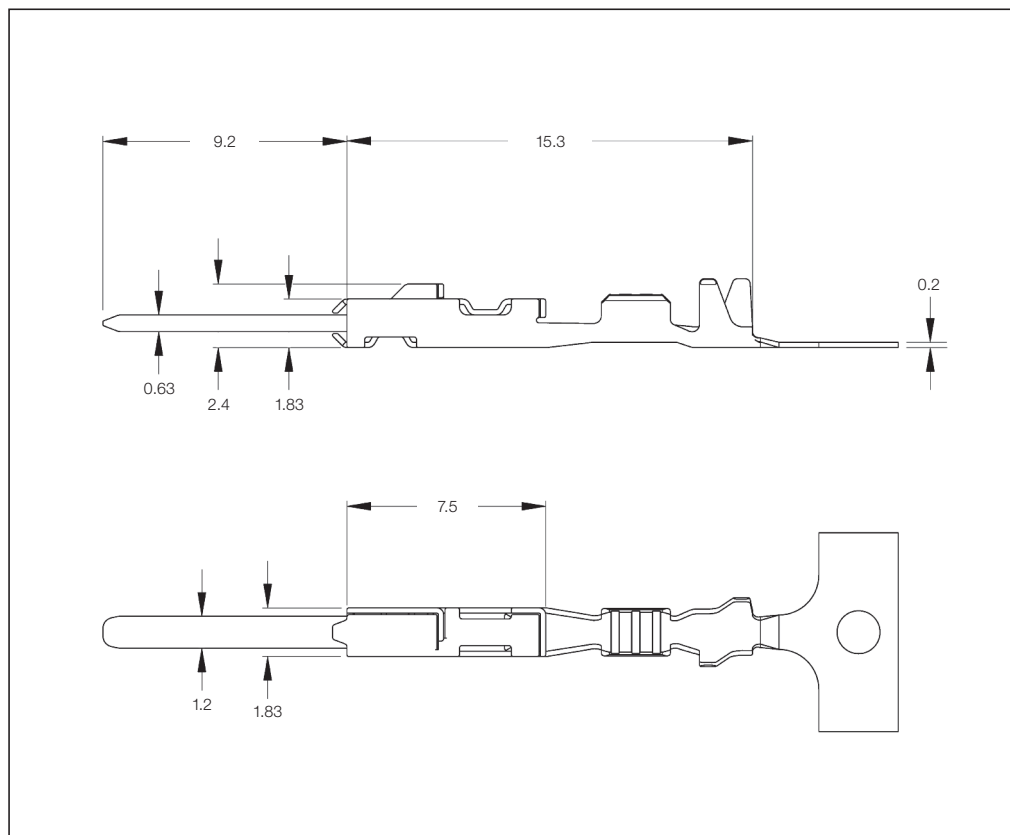
1718398

**Product Specification:**

108-18782

**Application Specification:**

114-18464



**Standard Tab Contacts**

Wire Size 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
0.25–0.35	–	1.10–1.75	-1 / -2 / -3	1718348	9,000	1703698	500	x-1528156-x	2063574-x ◇
0.50–0.75	–	1.4–1.9	-1 / -2 / -3	1718350	8,000	1718390	500	x-1528157-x	2063570-x ◇

**\*) Material and Finish:**

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

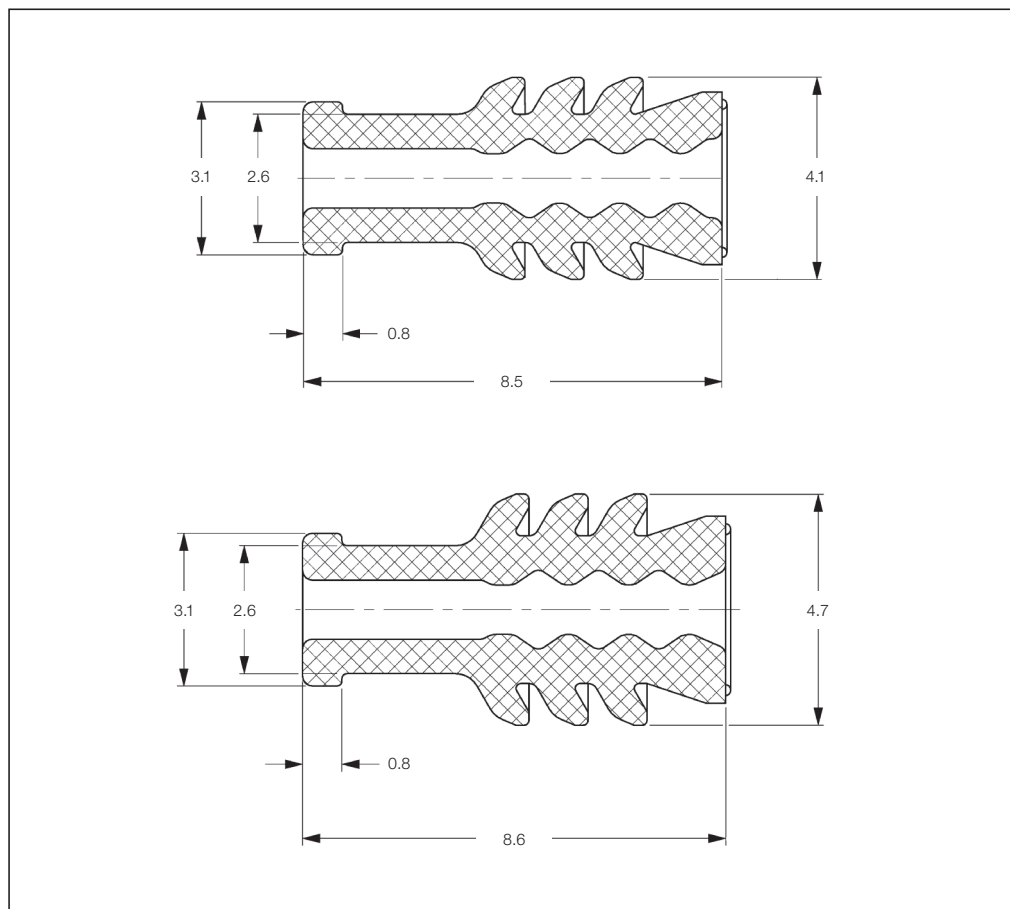
**Note:** All part numbers are RoHS and ELV compliant.

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

◇) On request.

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 Diameter		Color	Part Number	Package Quantity
FLK (mm)	FLR (mm)			
—	0.9–1.4	Yellow	967067-2	20,000
—	1.4–2.1	Green	967067-1	20,000
—	1.4–1.9	Red	2098582-1*	20,000
—	1.9–2.1	Yellow	964972-1	20,000
Sealing Plug		Blue	967056-1	5,000

\*) Seals for 150 °C applications.  
Wire used must be able to withstand 150 °C for 1008 hours.

**Cavity Diameter 3.95 mm**

Insulation Diameter		Color	Part Number	Package Quantity
FLK (mm)	FLR (mm)			
—	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:**

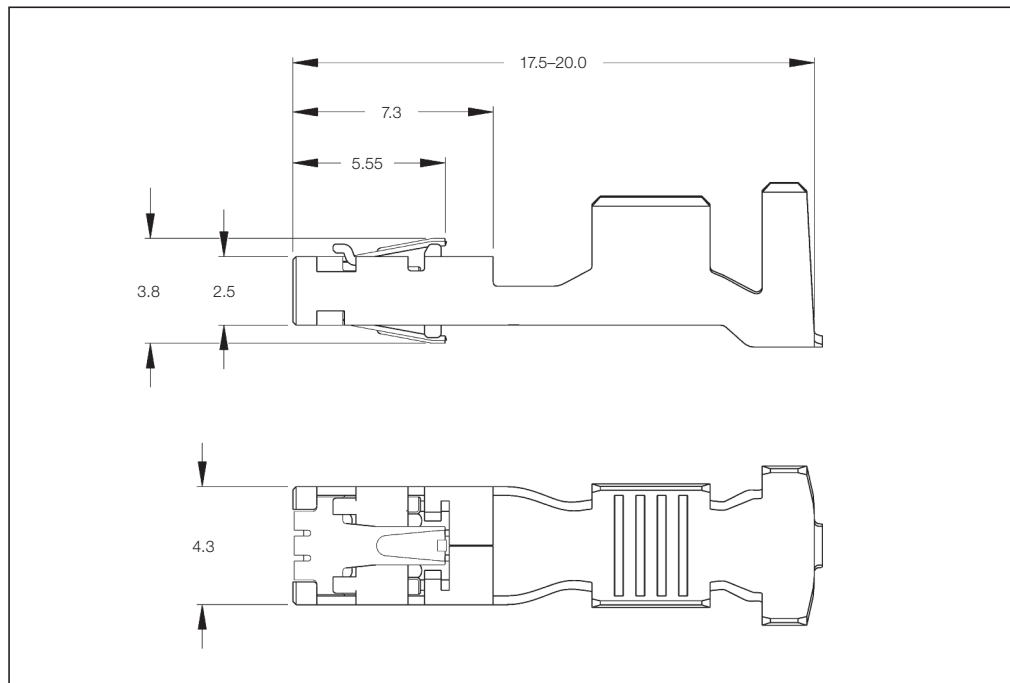
1719797

**Product Specification:**

108-94002

**Application Specification:**

114-18718



**Modular Dimensions (Centerline):**

max. 2.5 mm <sup>2</sup>	5.0 x 5.5 mm	sealed 5.5 x 5.5 mm
	staggered 4.5 x 5.5 mm	sealed staggered 5.0 x 5.5 mm
		cavity diameter 4.9 mm
max. 4.0 mm <sup>2</sup>	5.5 x 5.5 mm	sealed 7.2 x 7.2 mm
	staggered 5.0 x 5.5 mm	sealed staggered 6.0 x 7.2 mm
		cavity diameter 6.4 mm

**Standard Receptacle Contacts**

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 / -3	1719836	2,500	1719837	500	x-1528691-x	2119119-x ◇
0.50	–	1.4–1.6	-1 / -3	1563719	2,500	1563720	500	x-1528899-x	2119120-x ◇
0.75–1.00	–	1.7–2.1	-1 / -3	1719838	2,500	1719839	500	x-1528632-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	2119122-x ◇

**Receptacle Contacts with 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
0.50	–	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 ◇
>1.0–2.5	–	2.2–3.0	-1 / -3	1670804	2,500	1670805	500	x-1528774-x	2119124-x ◇
>2.5–4.0	–	3.4–3.7	-1 / -3	1670806	2,500	1670807	500	x-1528775-x	2119125-x ◇

**\*) Material and Finish:**

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

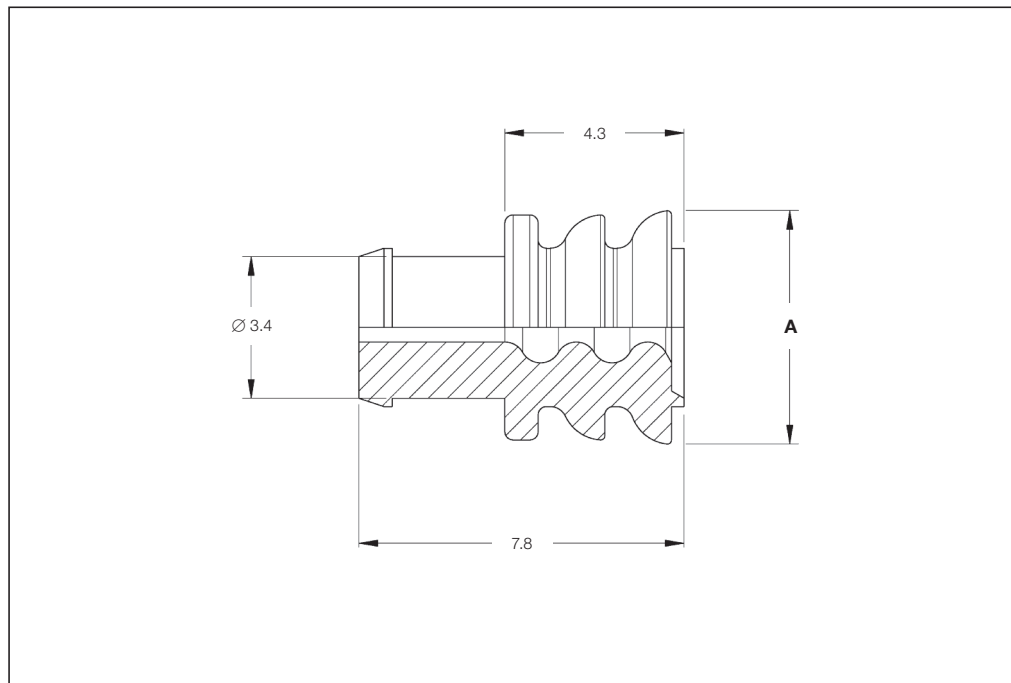
**Note:** All part numbers are  
RoHS and ELV compliant.

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

◇) 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
				828904-2	10,000
>1.5–2.5	2.2–3.0	White	5.6	828905-1	10,000
Sealing 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

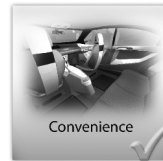
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Engineering Notes

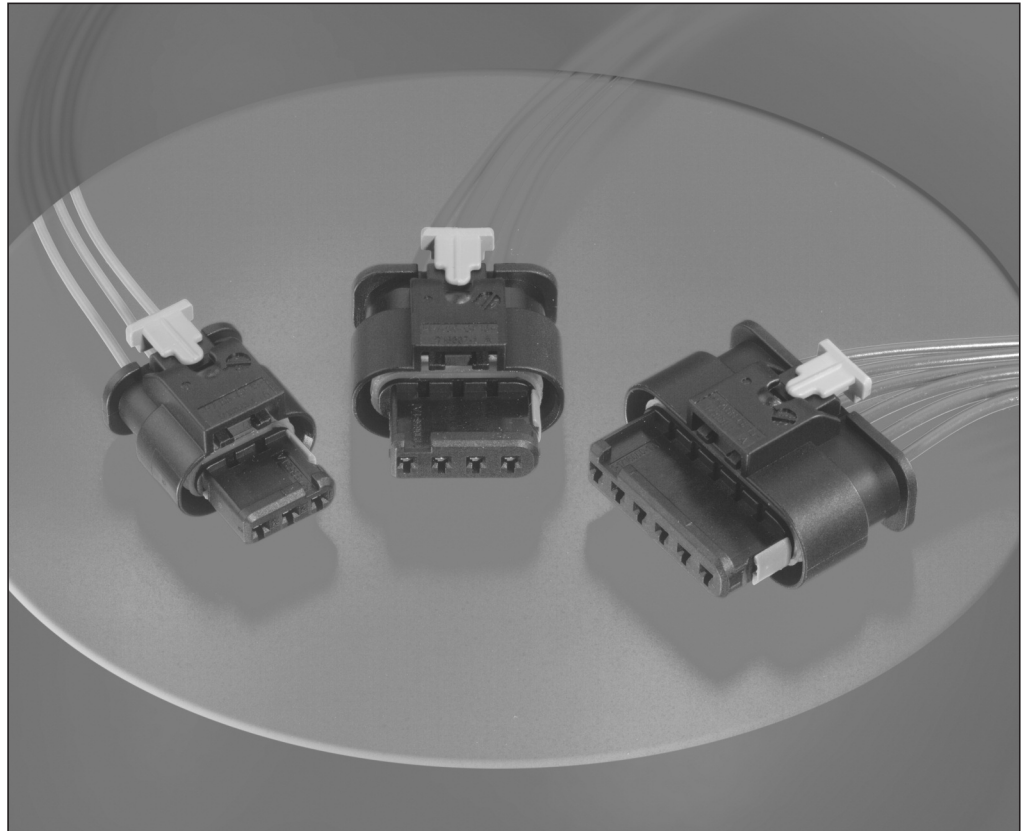
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## Introduction



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

Sealed 1.2 mm Receptacle Housings for Locking Lance Contacts

**Technical Features**

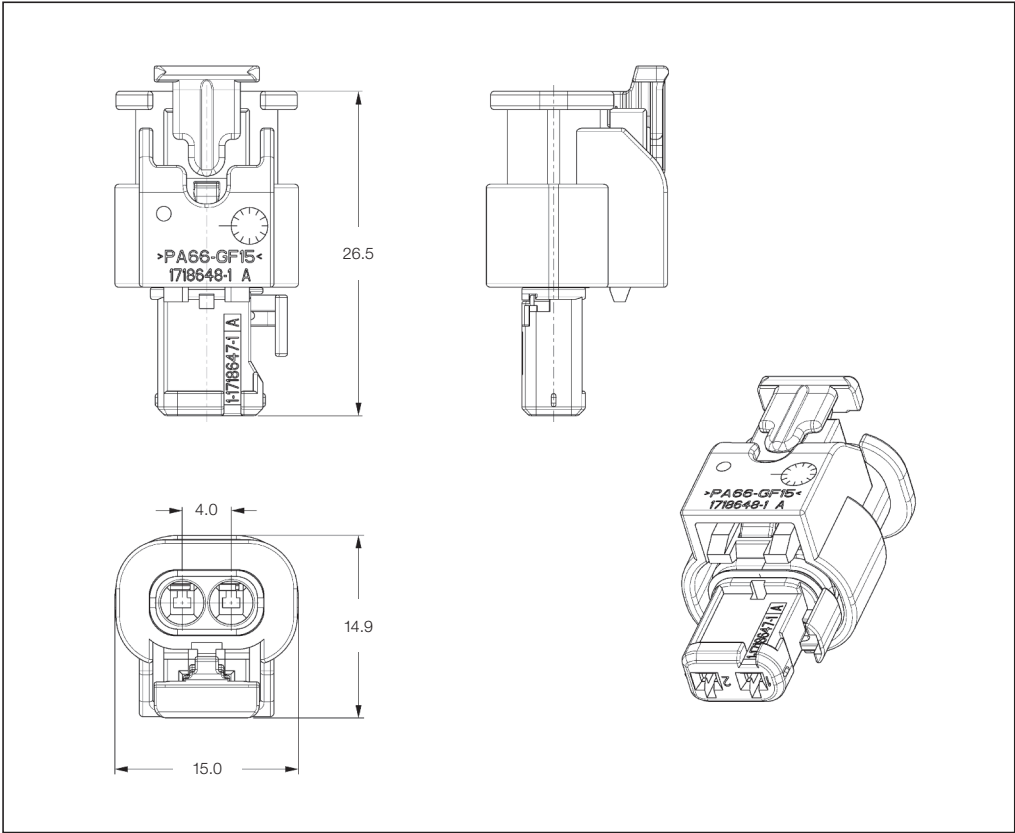
**No. of Positions:**  
2 Positions

**Housing Material:**  
PA66-GF15

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

**Product Specification:**  
108-18969

**Application Specification:**  
114-18861



**Sealed 1.2 mm Receptacle Housings**

No. of Positions	Keying Options	Housing Color	Part Numbers				
			Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Header Right-Angle	Mating PCB Header Vertical
2	A	Black	1-1718643-1	—	—	—	—

Sealed 1.2 mm Receptacle Housings for Locking Lance Contacts

**Technical Features**

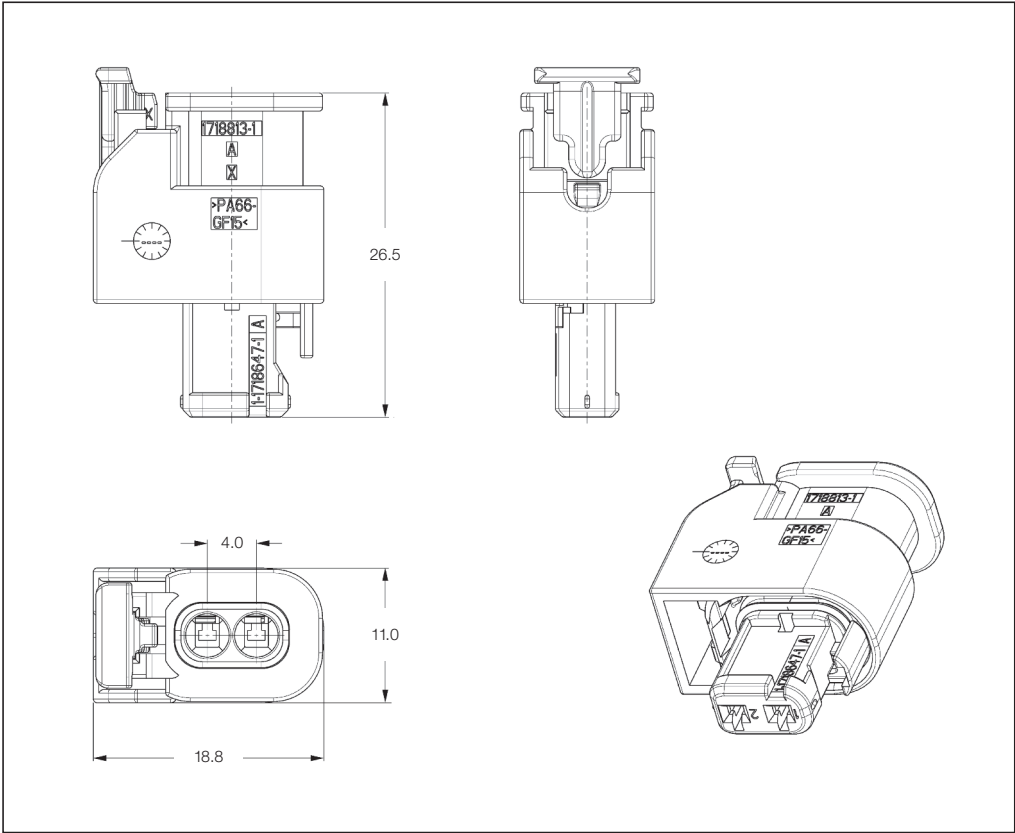
**No. of Positions:**  
2 Positions

**Housing Material:**  
PA66 GF15

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

**Product Specification:**  
108-18969

**Application Specification:**  
114-18861



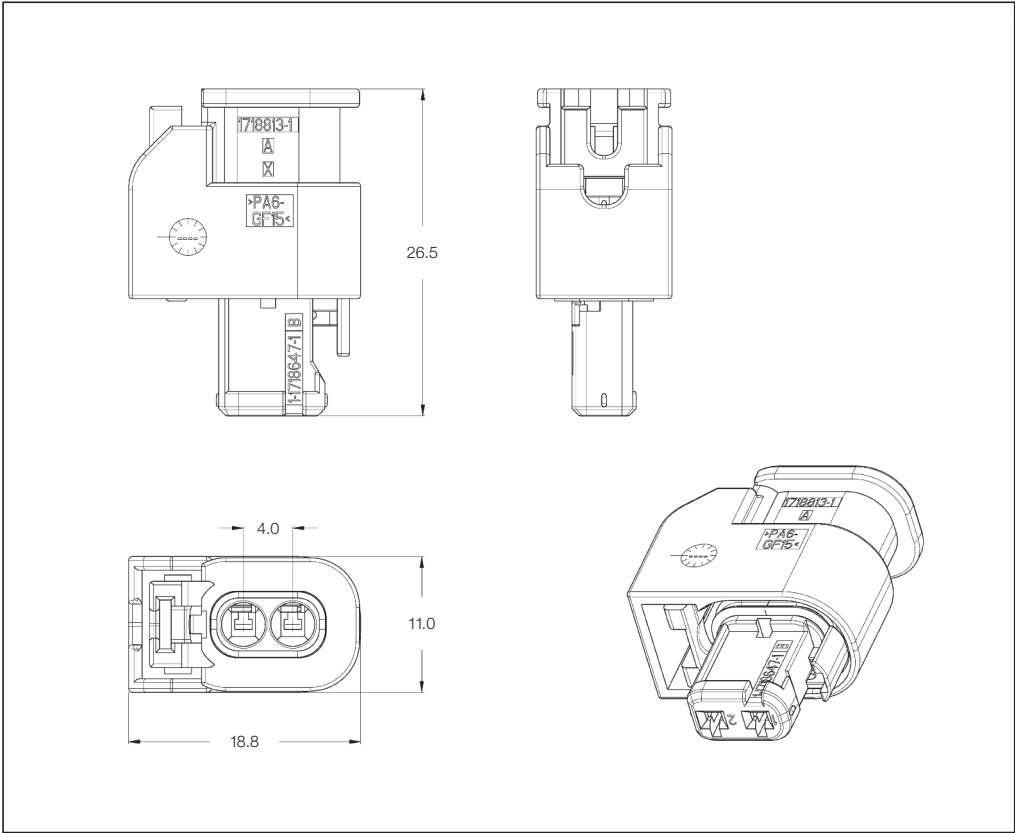
**Sealed 1.2 mm Receptacle Housings**

No. of Positions	Keying Options	Housing Color	Part Numbers				
			Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Header Right-Angle	Mating PCB Header Vertical
2	A	Black	1-1718811-1	—	—	—	—

Sealed 1.2 mm Receptacle Housings for Locking Lance Contacts

Technical Features

- 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



Sealed 1.2 mm Receptacle Housings

No. of Positions	Keying Options	Housing Color	Part Numbers				
			Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Header Right-Angle	Mating PCB Header Vertical
2	A	Black	1-1564440-1	—	—	—	—

Sealed 1.2 mm Receptacle Housings for Locking Lance Contacts

**Technical Features**

**No. of Positions:**

2 Positions

**Housing Material:**

PA66-GF30/PA6-GF15

**Wire Size Range:**

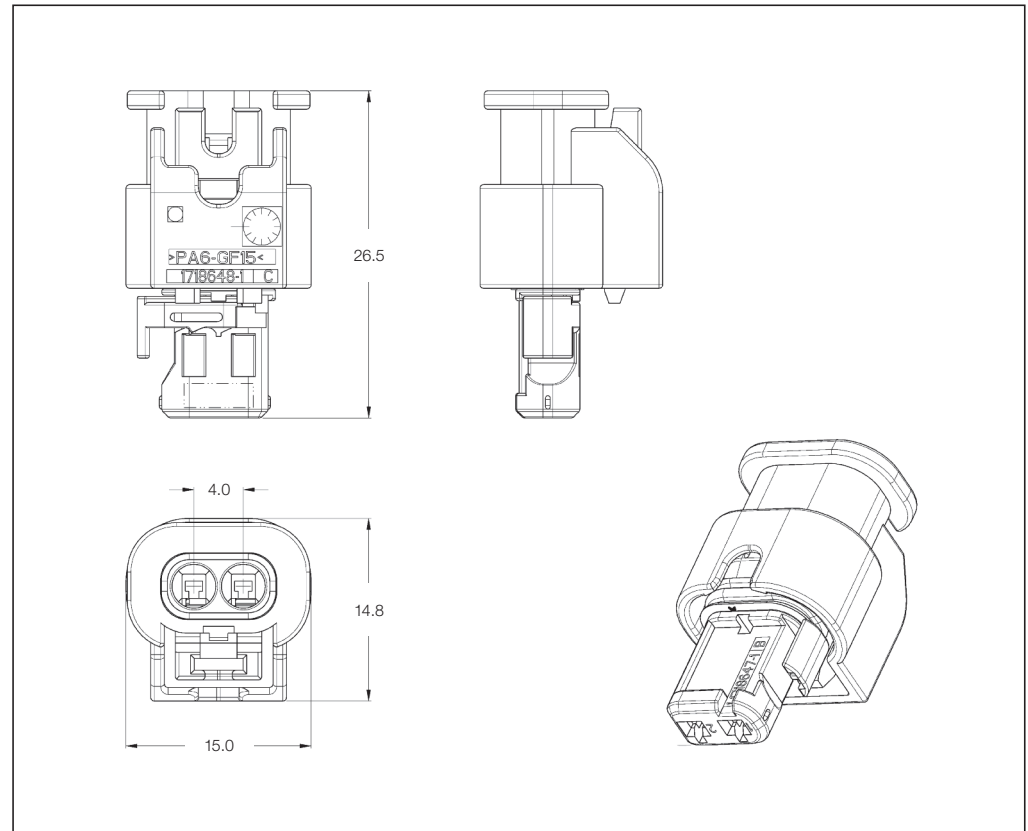
1.0 mm<sup>2</sup>

**Product Specification:**

108-18969

**Application Specification:**

114-18861



**Sealed 1.2 mm Receptacle Housings**

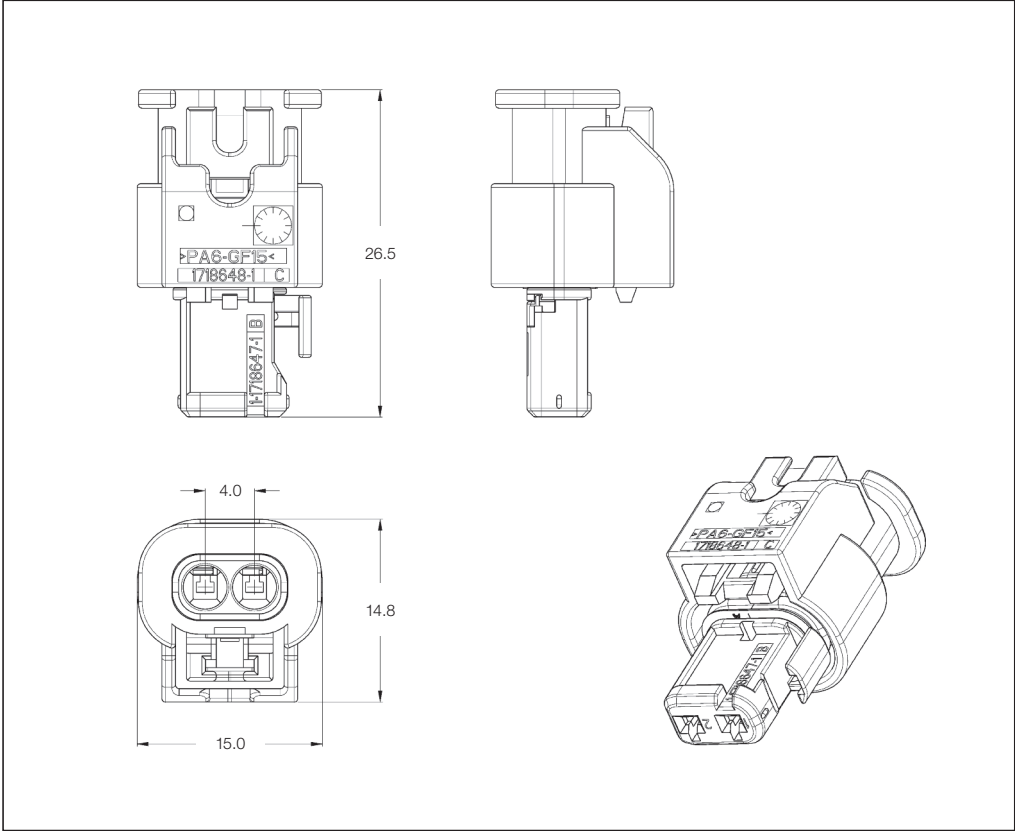
No. of Positions	Keying Options	Housing Color	Part Numbers				
			Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Header Right-Angle	Mating PCB Header Vertical
2	A	Black	1-1670915-1	—	—	—	—



Sealed 1.2 mm Receptacle Housings for Locking Lance Contacts

**Technical Features**

- 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



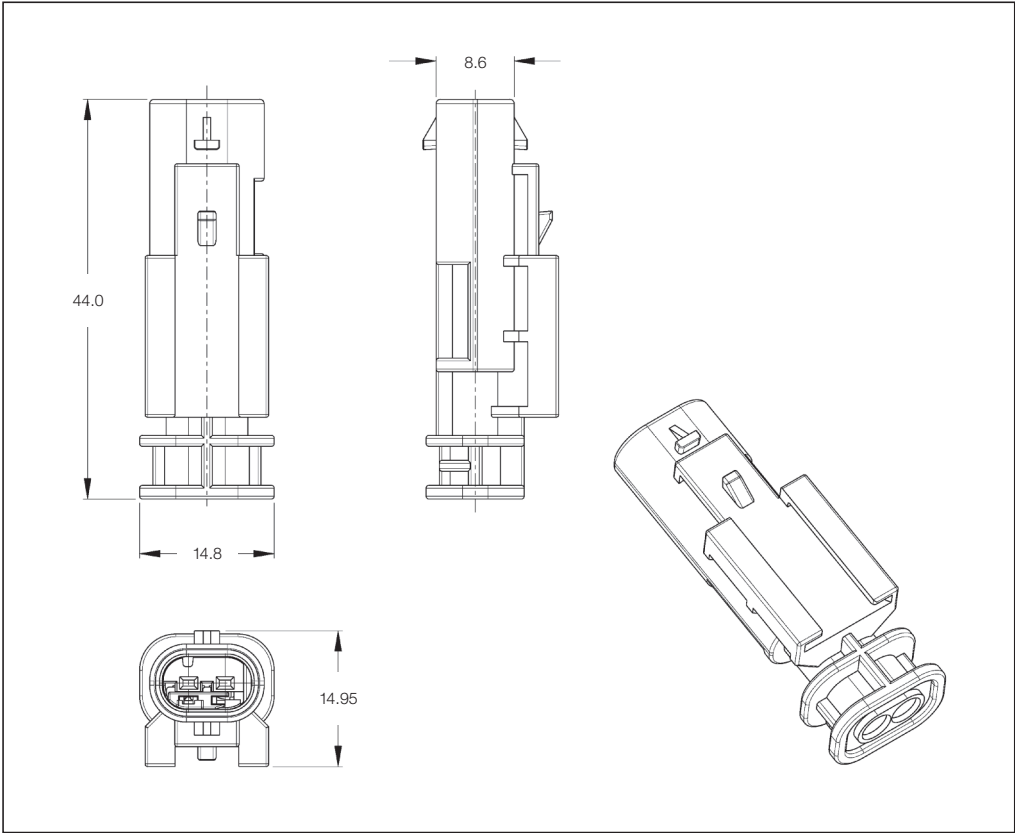
**Sealed 1.2 mm Receptacle Housings**

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

Sealed 1.2 mm Tab Housings for Locking Lance Contacts

**Technical Features**

- No. of Positions:**  
2 Positions
- Housing Material:**  
PBT-GF30
- Wire Size Range:**  
1.0 mm<sup>2</sup>
- Product Specification:**  
—
- Application Specification:**  
114-18910-1



**Sealed 1.2 mm Tab Housings**

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

Sealed 1.2 mm Tab Housings for Locking Lance Contacts

**Technical Features**

**No. of Positions:**

2 Positions

**Housing Material:**

PBT-GF30

**Wire Size Range:**

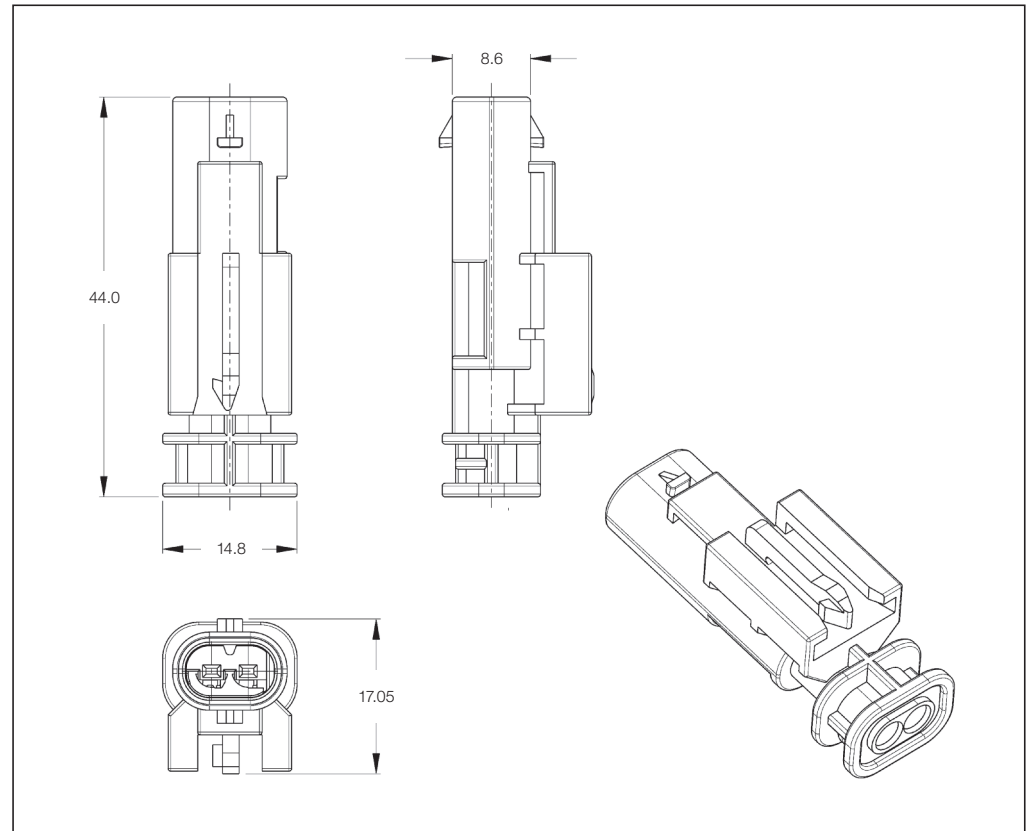
1.0 mm<sup>2</sup>

**Product Specification:**

—

**Application Specification:**

114-18910-1



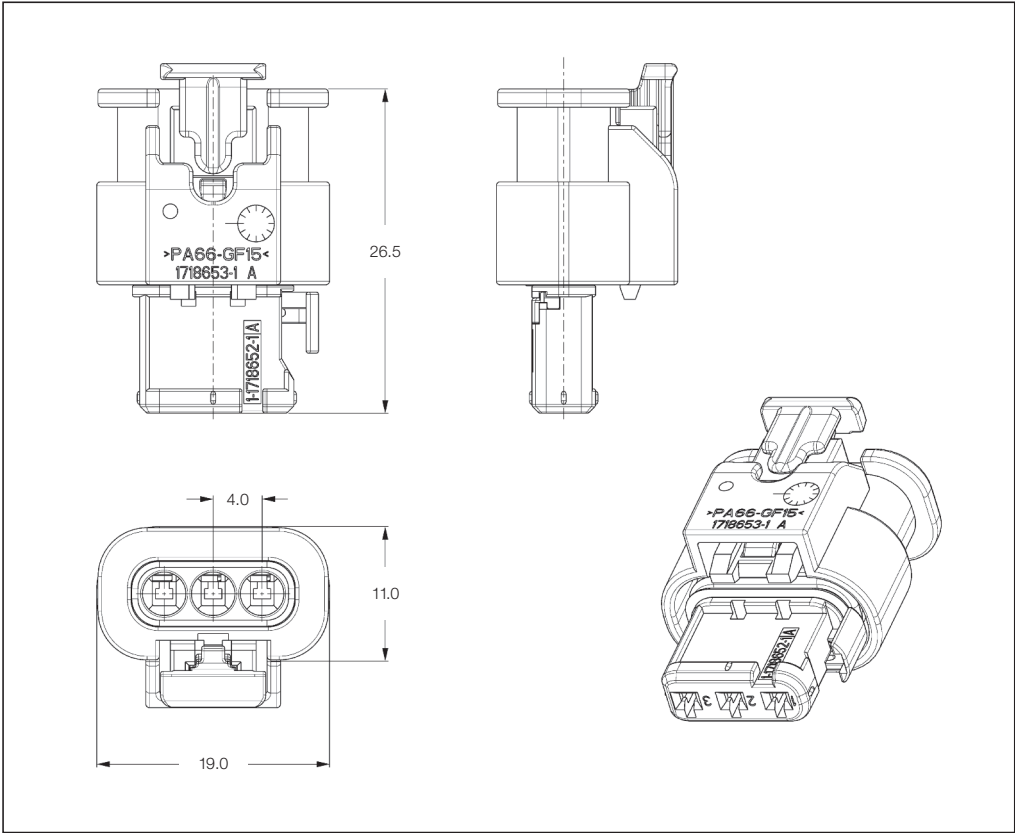
**Sealed 1.2 mm Tab Housings**

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

Sealed 1.2 mm Receptacle Housings for Locking Lance Contacts

Technical Features

- No. of Positions:**  
3 Positions
- Housing Material:**  
PA66-GF15
- Wire Size Range:**  
1.0 mm<sup>2</sup>
- Product Specification:**  
108-18969
- Application Specification:**  
114-18861



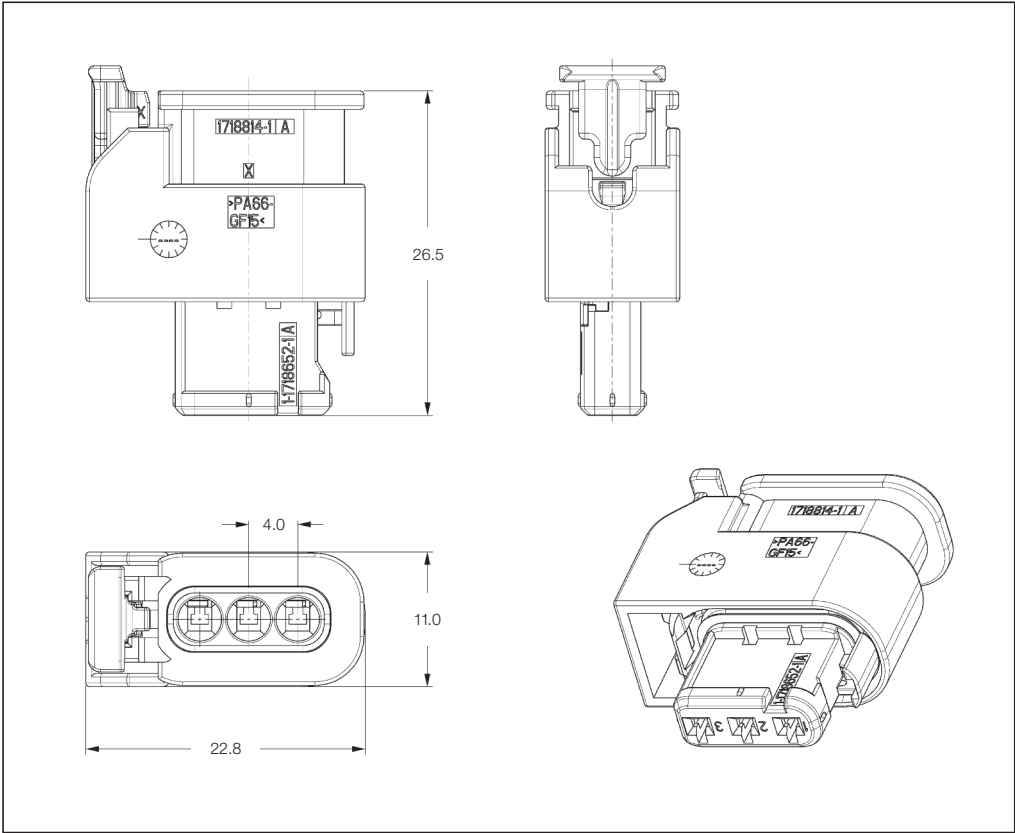
Sealed 1.2 mm Receptacle Housings

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

Sealed 1.2 mm Receptacle Housings for Locking Lance Contacts

**Technical Features**

- No. of Positions:**  
3 Positions
- Housing Material:**  
PA66-GF15
- Wire Size Range:**  
1.0 mm<sup>2</sup>
- Product Specification:**  
108-18969
- Application Specification:**  
114-18861



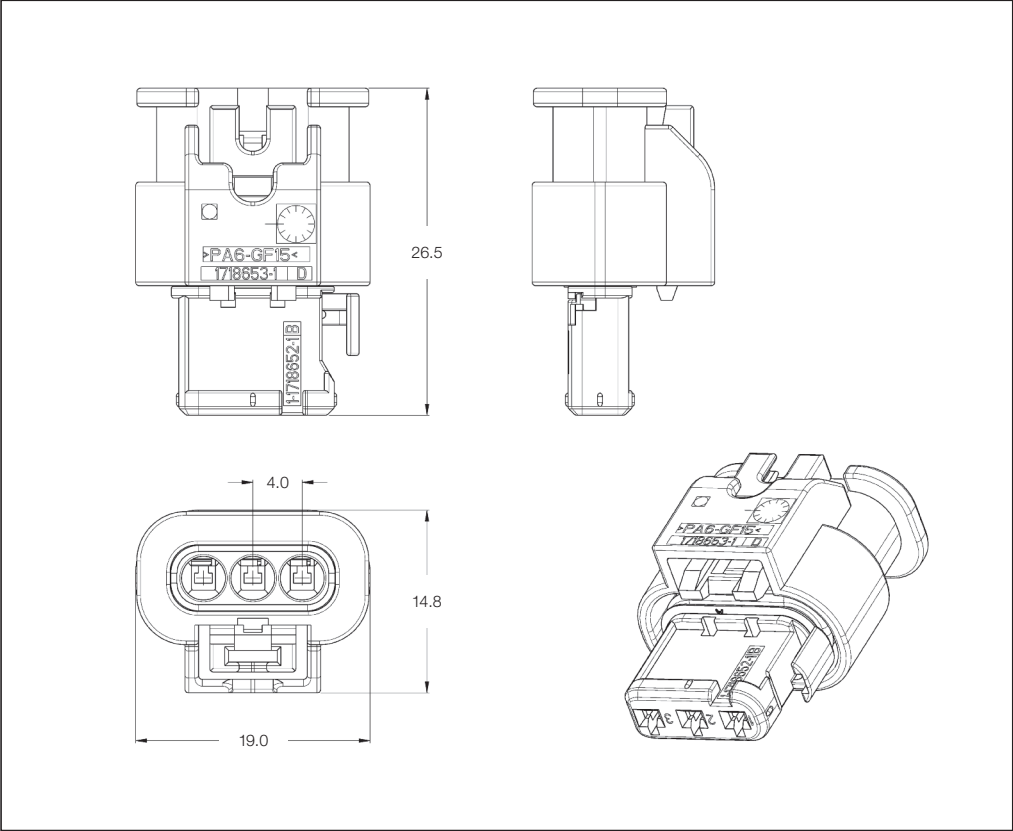
**Sealed 1.2 mm Receptacle Housings**

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

Sealed 1.2 mm Receptacle Housings for Locking Lance Contacts

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



Sealed 1.2 mm Receptacle Housings

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

Sealed 1.2 mm Tab Housings for Locking Lance Contacts

**Technical Features**

**No. of Positions:**

3 Positions

**Housing Material:**

PBT-GF30

**Wire Size Range:**

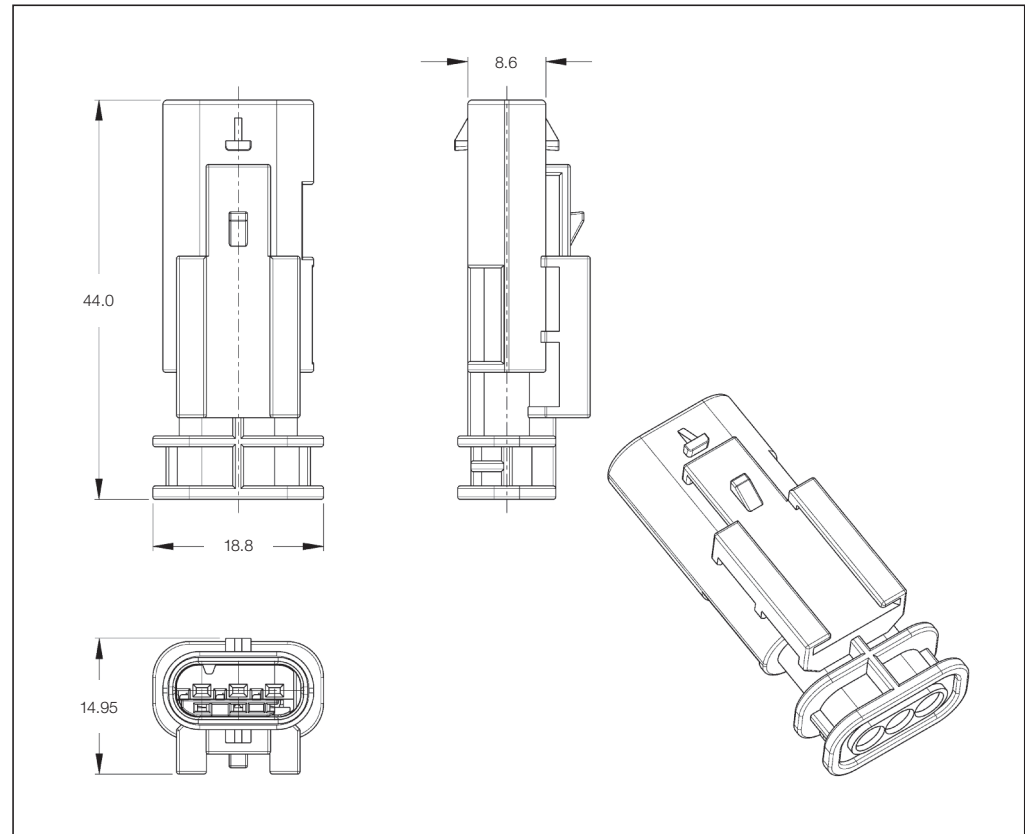
1.0 mm<sup>2</sup>

**Product Specification:**

—

**Application Specification:**

114-18910-1



**Sealed 1.2 mm Tab Housings**

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

Sealed 1.2 mm Tab Housings for Locking Lance Contacts

**Technical Features**

**No. of Positions:**

3 Positions

**Housing Material:**

PBT-GF30

**Wire Size Range:**

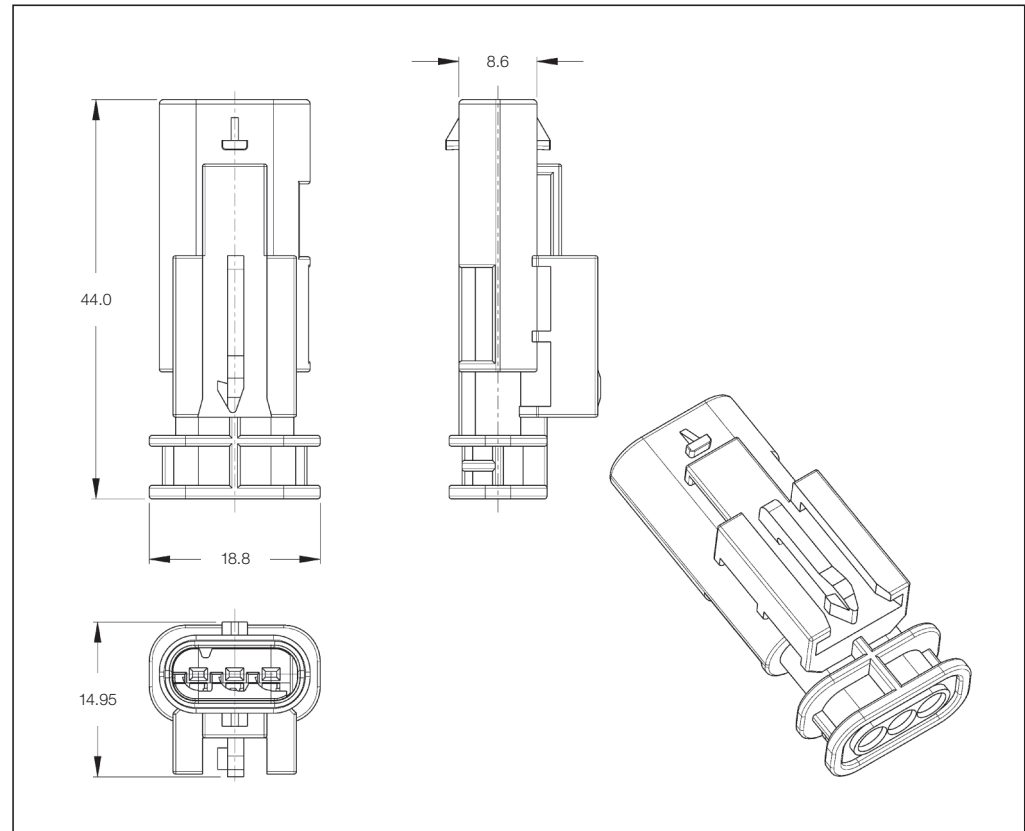
1.0 mm<sup>2</sup>

**Product Specification:**

—

**Application Specification:**

114-18910-1



**Sealed 1.2 mm Tab Housings**

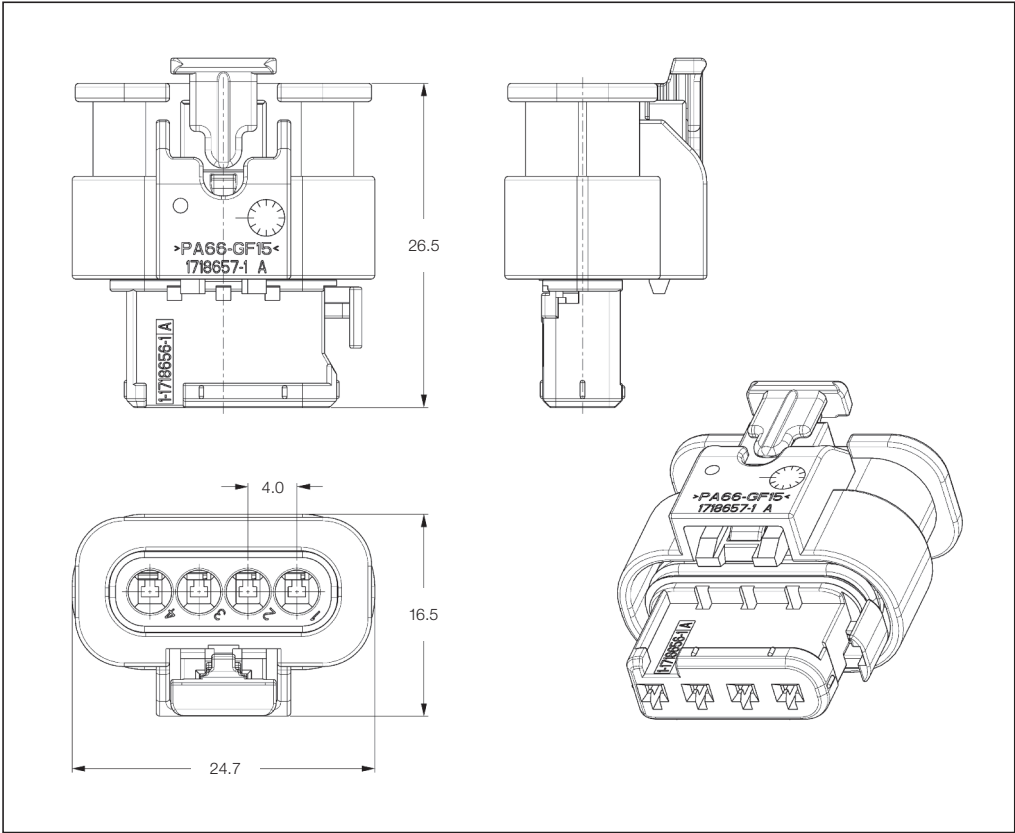
No. of Positions	Keying Options	Housing Color	Part Numbers				
			Tab Housing	Cover	Mating Receptacle Housing	Mating PCB Header Right-Angle	Mating PCB Header Vertical
3	A	Black	1-1703494-2	—	1-1670917-1	—	—



Sealed 1.2 mm Receptacle Housings for Locking Lance Contacts

**Technical Features**

- No. of Positions:**  
4 Positions
- Housing Material:**  
PA66-GF15
- Wire Size Range:**  
1.0 mm<sup>2</sup>
- Product Specification:**  
108-18969
- Application Specification:**  
114-18861



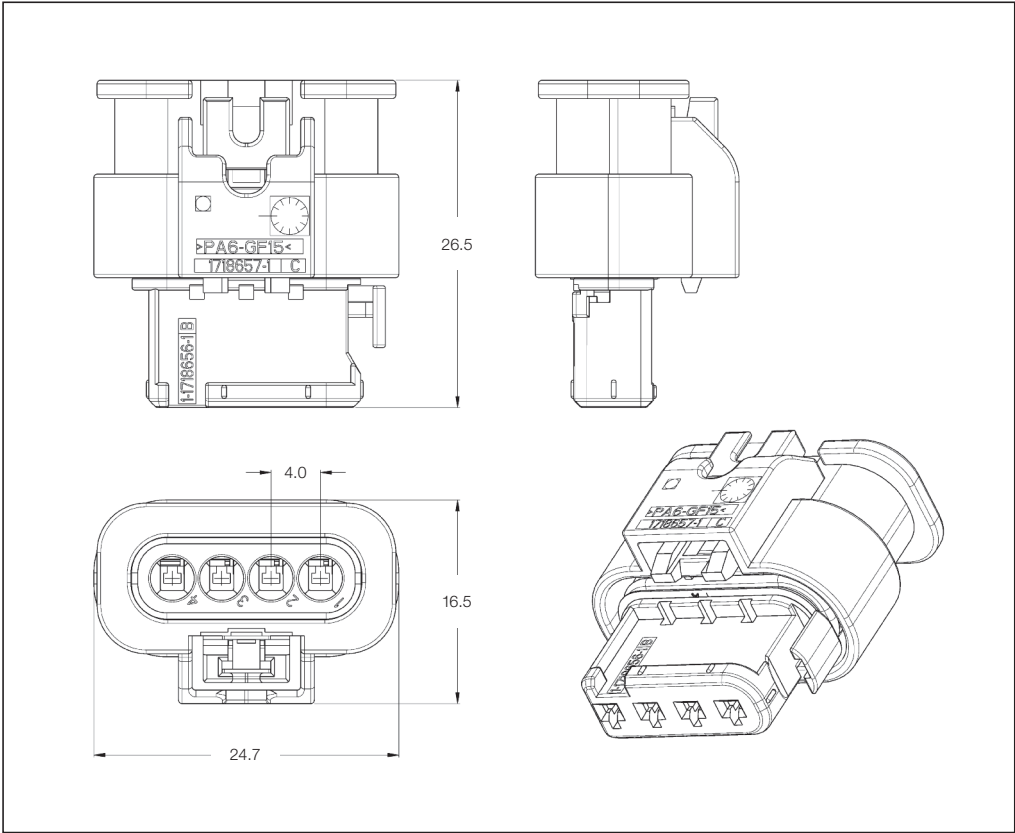
**Sealed 1.2 mm Receptacle Housings**

No. of Positions	Keying Options	Housing Color	Part Numbers				
			Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Header Right-Angle	Mating PCB Header Vertical
4	A	Black	1-1718645-1	—	—	—	—

Sealed 1.2 mm Receptacle Housings for Locking Lance Contacts

Technical Features

- 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



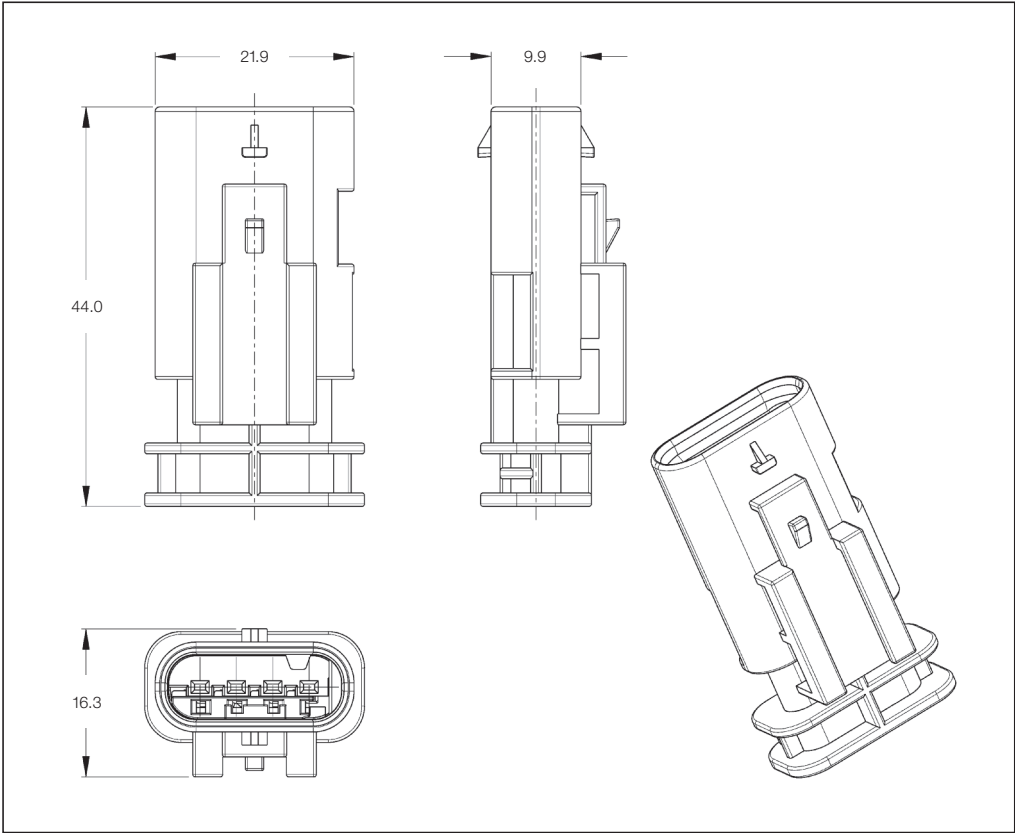
Sealed 1.2 mm Receptacle Housings

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

Sealed 1.2 mm Tab Housings for Locking Lance Contacts

**Technical Features**

- No. of Positions:**  
4 Positions
- Housing Material:**  
PBT-GF30
- Wire Size Range:**  
1.0 mm<sup>2</sup>
- Product Specification:**  
—
- Application Specification:**  
114-18910-1



**Sealed 1.2 mm Tab Housings**

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

Sealed 1.2 mm Tab Housings for Locking Lance Contacts

**Technical Features**

**No. of Positions:**

4 Positions

**Housing Material:**

PBT-GF30

**Wire Size Range:**

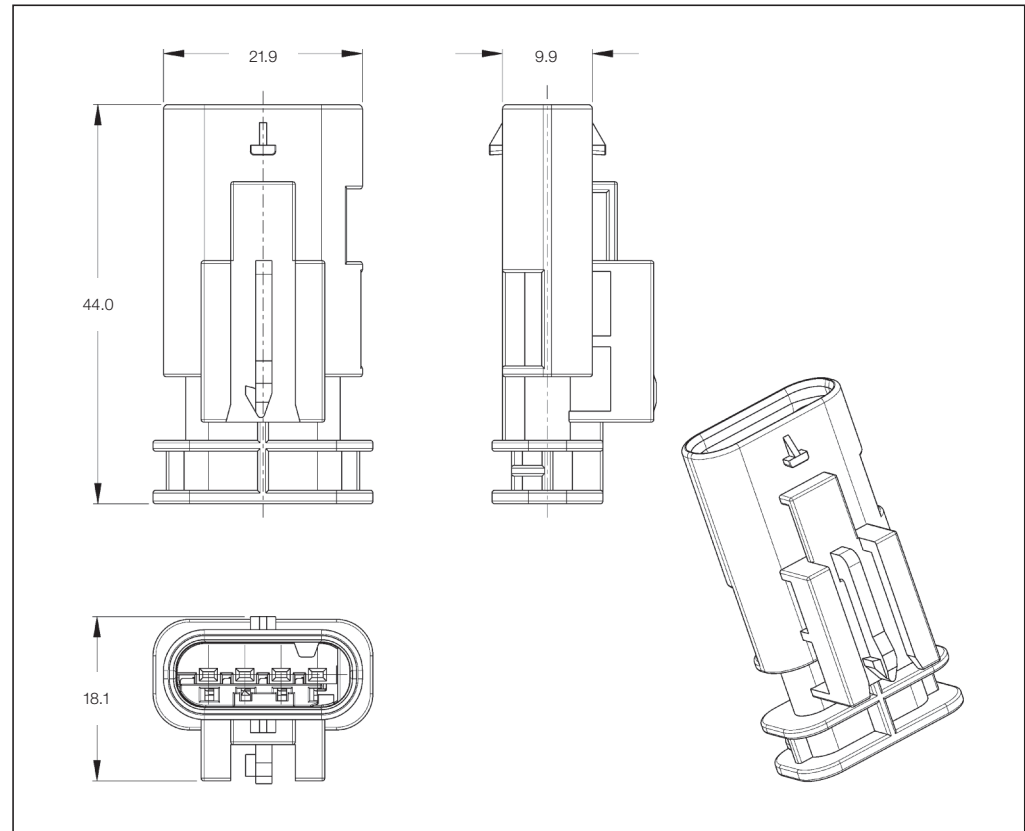
1.0 mm<sup>2</sup>

**Product Specification:**

—

**Application Specification:**

114-18910-1



**Sealed 1.2 mm Tab Housings**

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

Sealed 1.2 mm Receptacle Housings for Locking Lance Contacts

**Technical Features**

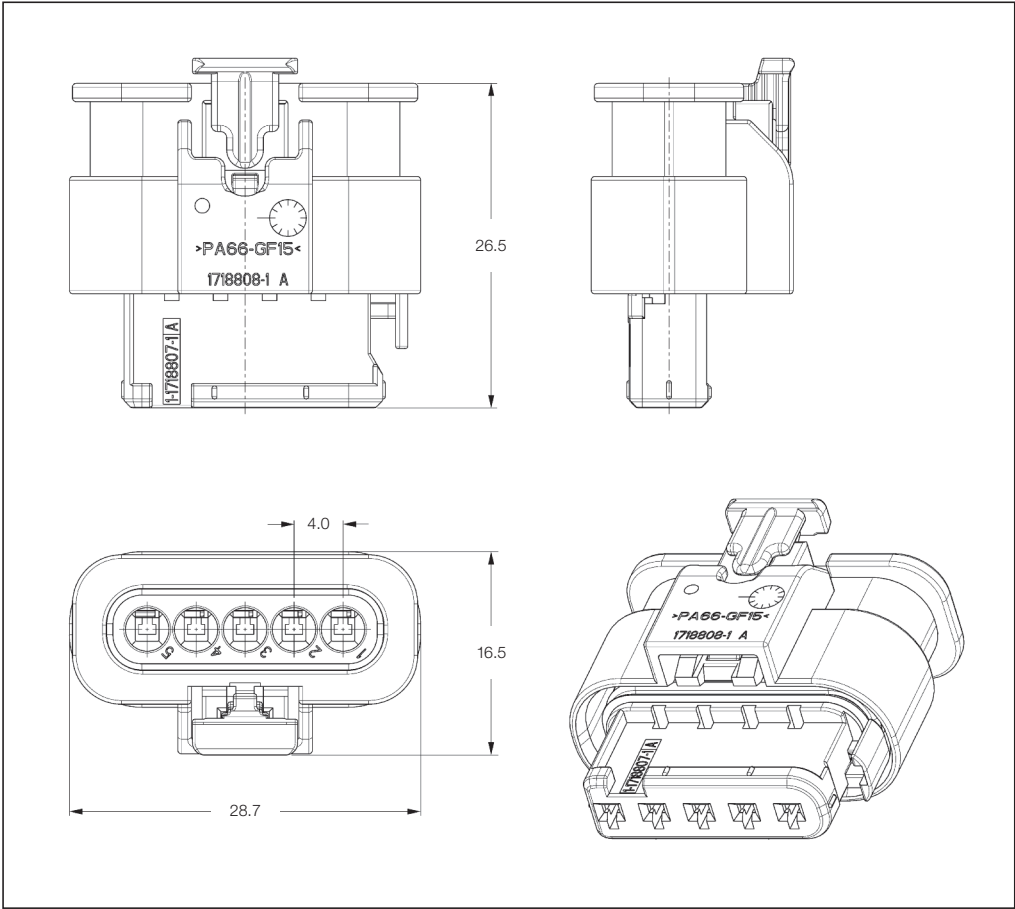
**No. of Positions:**  
5 Positions

**Housing Material:**  
PA66-GF15

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

**Product Specification:**  
108-18969

**Application Specification:**  
114-18861



**Sealed 1.2 mm Receptacle Housings**

No. of Positions	Keying Options	Housing Color	Part Numbers				
			Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Header Right-Angle	Vertical
5	A	Black	1-1718806-1	—	—	—	—

Sealed 1.2 mm Receptacle Housings for Locking Lance Contacts

**Technical Features**

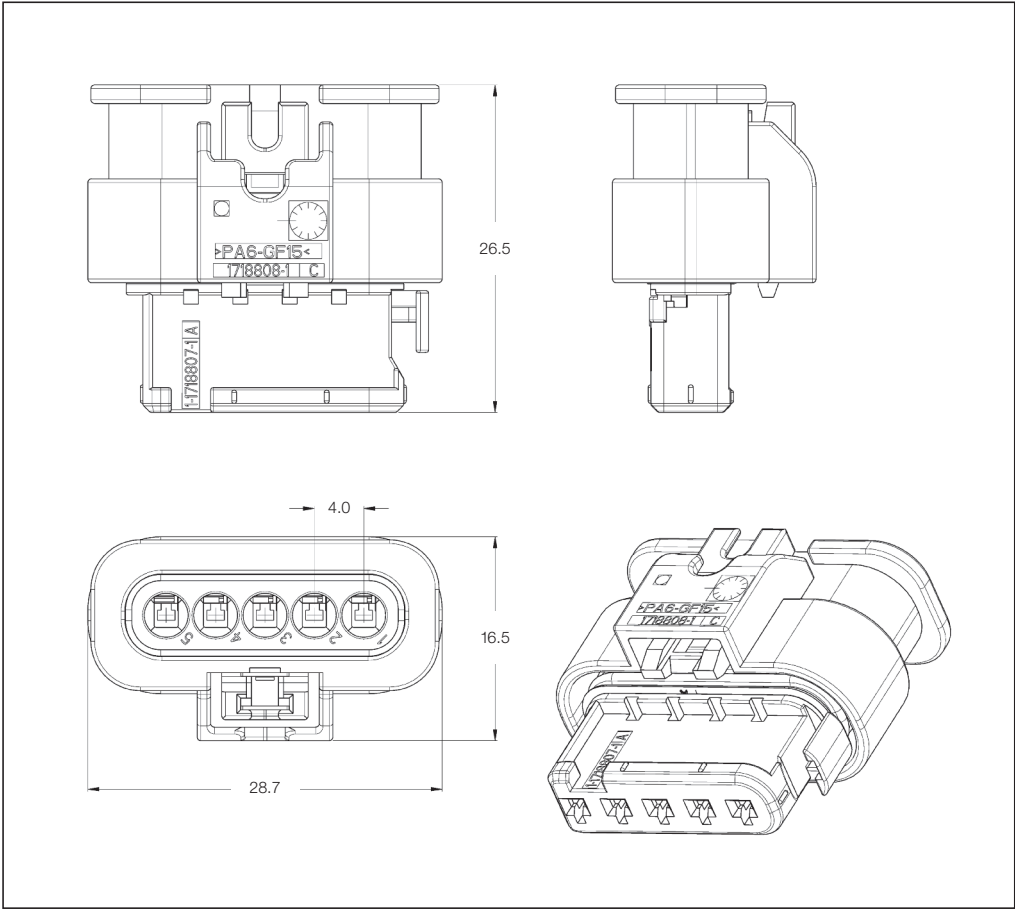
**No. of Positions:**  
5 Positions

**Housing Material:**  
PA66-GF30/PA6-GF15

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

**Product Specification:**  
108-18969

**Application Specification:**  
114-18861



**Sealed 1.2 mm Receptacle Housings**

No. of Positions	Keying Options	Housing Color	Part Numbers				
			Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Header Right-Angle	Mating PCB Header Vertical
5	A	Black	1-1670921-1	-	-	-	-
	B	Natural	2-1670921-1	-	-	-	-

Sealed 1.2 mm Receptacle Housings for Locking Lance Contacts

**Technical Features**

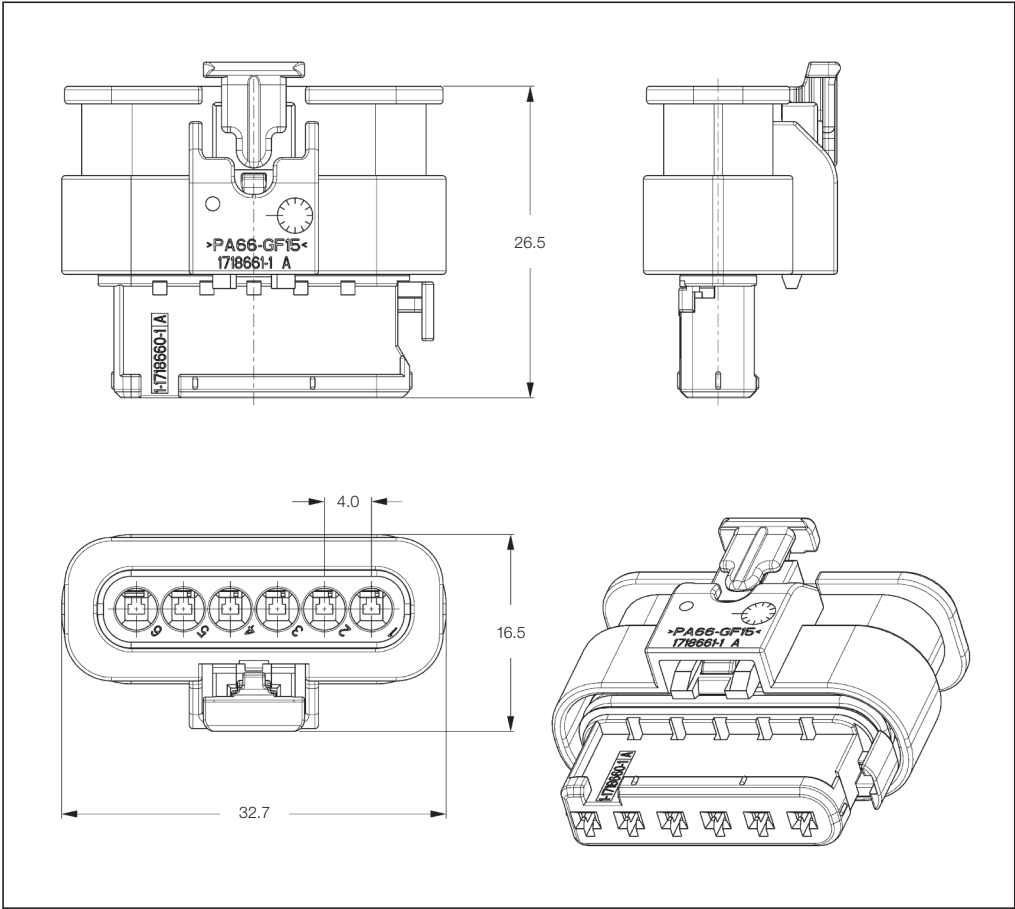
**No. of Positions:**  
6 Positions

**Housing Material:**  
PA66-GF15

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

**Product Specification:**  
108-18969

**Application Specification:**  
114-18861



**Sealed 1.2 mm Receptacle Housings**

No. of Positions	Keying Options	Housing Color	Part Numbers				
			Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Header Right-Angle	Mating PCB Header Vertical
6	A	Black	1-1718646-1	—	—	—	—

Sealed 1.2 mm Receptacle Housings for Locking Lance Contacts

**Technical Features**

**No. of Positions:**

6 Positions

**Housing Material:**

PA66-GF30/PA6-GF15

**Wire Size Range:**

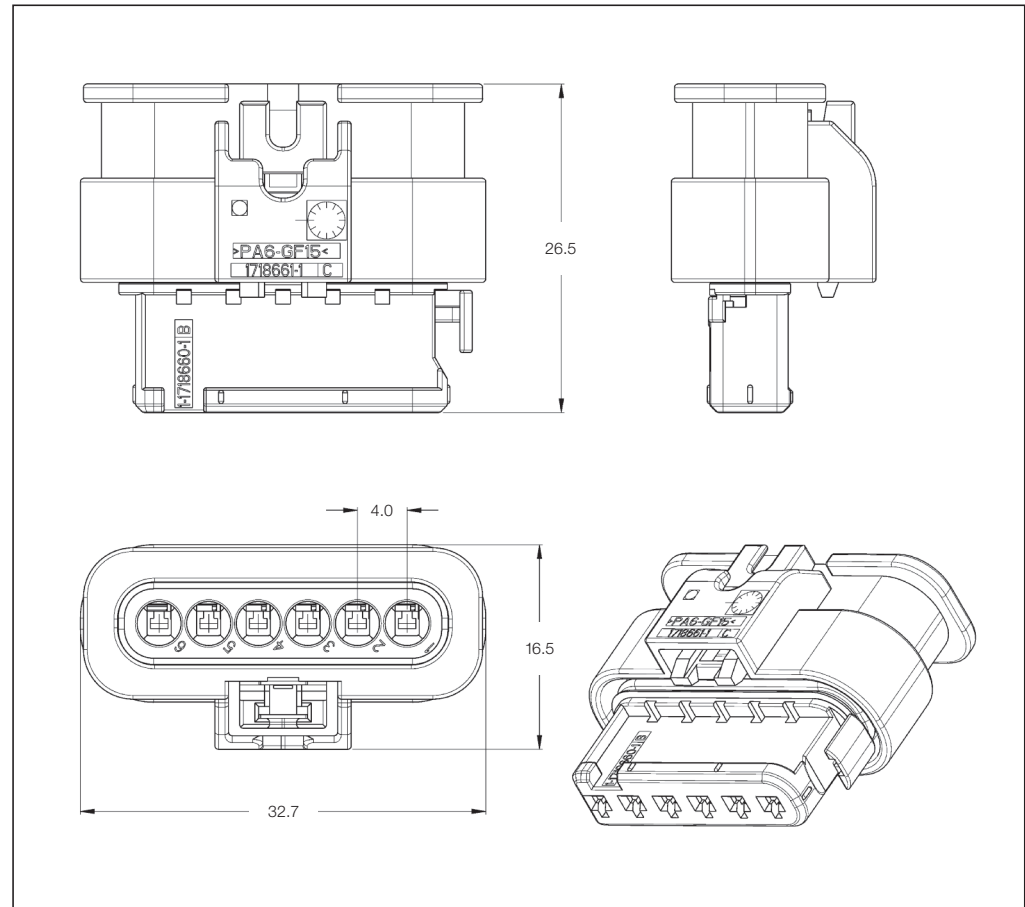
1.0 mm<sup>2</sup>

**Product Specification:**

108-18969

**Application Specification:**

114-18861



**Sealed 1.2 mm Receptacle Housings**

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



Sealed 1.2 mm Receptacle Housings for Clean Body Contacts

**Technical Features**

**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> (20–16 AWG)

**Product Specification:**

—

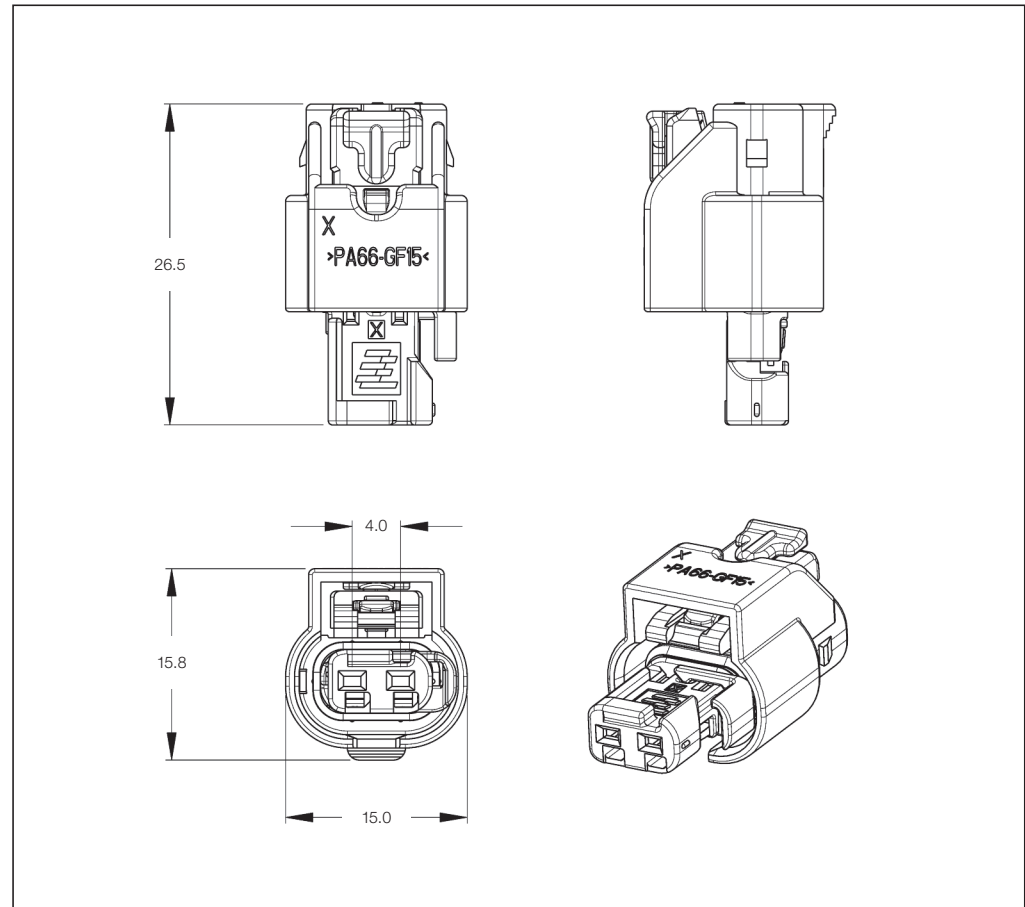
**Application Specification:**

408-8928

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

**Test Specification for 150 °C Product:**

502-1277



**Sealed 1.2 mm Receptacle Housings – Standard Latch without CPA**

No. of Positions	Keying Options	Housing Color	Temperature Rating	Part Numbers				
				Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Header Right-Angle	Mating PCB Header Vertical
2	A	Black	125 °C	1-1924067-1	—	—	—	—
	B	Natural	125 °C	1-1924067-2				
	C	Blue	125 °C	1-1924067-3				
	A	Brown	150 °C	2098557-1	—	—	—	—
	B	Brown	150 °C	2098557-2				
	C	Brown	150 °C	2098557-3				

Sealed 1.2 mm Receptacle Housings for Clean Body Contacts (continued)

**Technical Features**

**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> (20–16 AWG)

**Product Specification:**

—

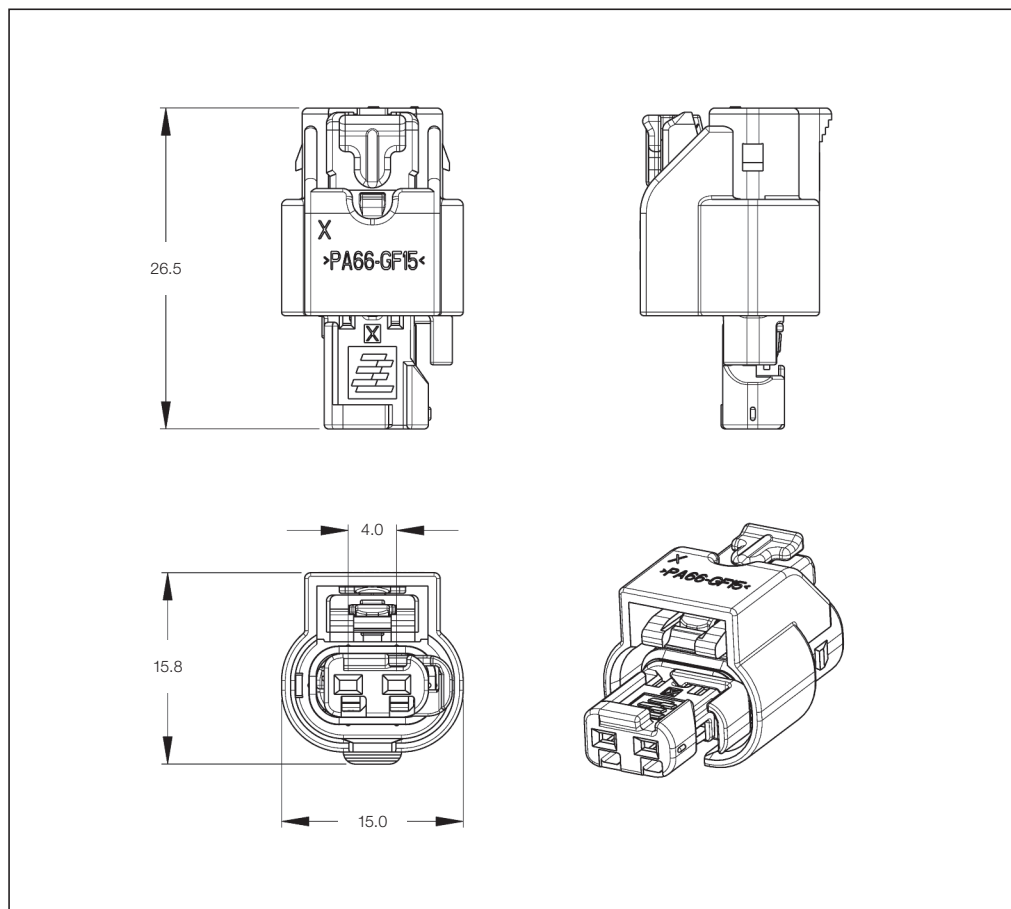
**Application Specification:**

408-8928

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

**Test Specification for 150 °C Product:**

502-1277



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

No. of Positions	Keying Options	Housing Color	Temperature Rating	Part Numbers				
				Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Header Right-Angle	Mating PCB Header Vertical
2	A	Black	125 °C	1-1924067-4	—	—	—	—
	B	Natural	125 °C	1-1924067-5				
	C	Blue	125 °C	1-1924067-6				
	A	Brown	150 °C	2098557-4	—	—	—	—
	B	Brown	150 °C	2098557-5				
	C	Brown	150 °C	2098557-6				

**Sealed 1.2 mm Receptacle Housings – Side Latch without CPA**

No. of Positions	Keying Options	Housing Color	Temperature Rating	Part Numbers				
				Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Header Right-Angle	Mating PCB Header Vertical
2	A	Brown	150 °C	2098641-1	—	—	—	—
	B	Brown	150 °C	2098641-2				
	C	Brown	150 °C	2098641-3				

Sealed 1.2 mm Receptacle Housings for Clean Body Contacts

**Technical Features**

**No. of Positions:**

3 Positions

**Housing Material:**

PA66-GF35

**Wire Size Range:**

0.5–1.5 mm<sup>2</sup> (20–16 AWG)

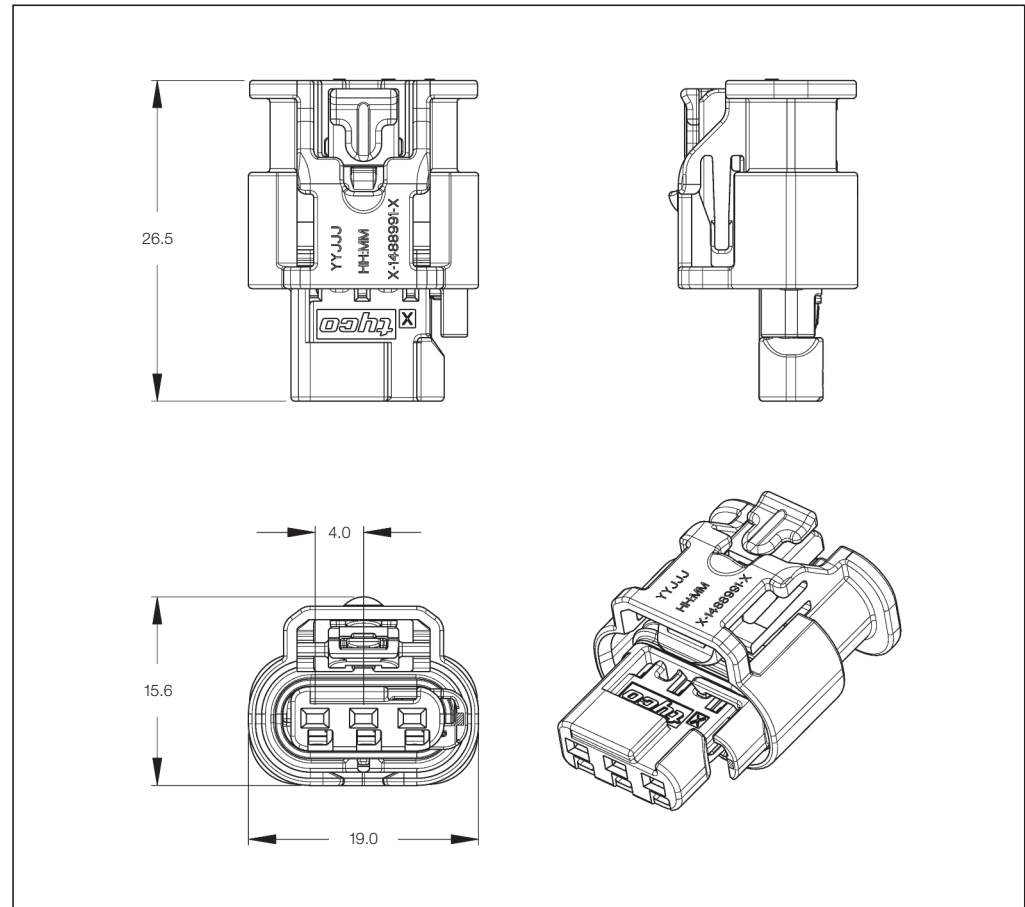
**Product Specification:**

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**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 Positions	Keying Options	Housing Color	Temperature Rating	Part Numbers				
				Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Header Right-Angle	Mating PCB Header Vertical
3	A	Black	125 °C	1488991-1	—	—	—	—
	B	Natural	125 °C	1488991-2				
	C	Blue	125 °C	1488991-3				
	D	Gray	125 °C	1488991-4				

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

No. of Positions	Keying Options	Housing Color	Temperature Rating	Part Numbers				
				Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Header Right-Angle	Mating PCB Header Vertical
3	A	Black	125 °C	1488991-5	—	—	—	—
	B	Natural	125 °C	1488991-6				
	C	Blue	125 °C	1488991-7				
	D	Gray	125 °C	1488991-8				

Sealed 1.2 mm Receptacle Housings for Clean Body Contacts

**Technical Features**

**No. of Positions:**

3 Positions

**Housing Material:**

PA66-GF35

**Wire Size Range:**

0.5–1.5 mm<sup>2</sup> (20–16 AWG)

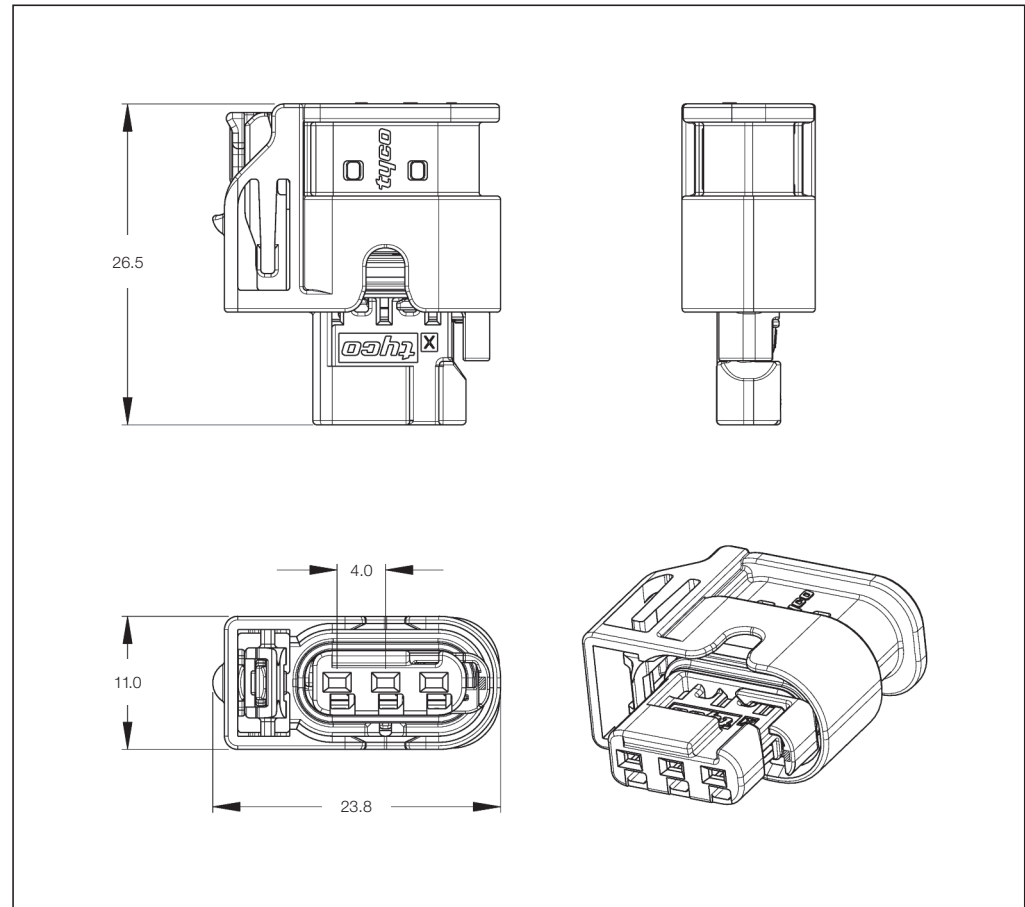
**Product Specification:**

—

**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 – Low Profile Latch without CPA**

No. of Positions	Keying Options	Housing Color	Temperature Rating	Part Numbers				
				Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Header Right-Angle	Mating PCB Header Vertical
3	A	Black	125 °C	1488992-1	—	—	—	—
	B	Natural	125 °C	1488992-2				
	C	Blue	125 °C	1488992-3				
	D	Gray	125 °C	1488992-4				

**Sealed 1.2 mm Receptacle Housings – Low Profile Latch with CPA**

No. of Positions	Keying Options	Housing Color	Temperature Rating	Part Numbers				
				Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Header Right-Angle	Mating PCB Header Vertical
3	A	Black	125 °C	1488992-5	—	—	—	—
	B	Natural	125 °C	1488992-6				
	C	Blue	125 °C	1488992-7				
	D	Gray	125 °C	1488992-8				

Sealed 1.2 mm Receptacle Housings for Clean Body Contacts

**Technical Features**

**No. of Positions:**

4 Positions

**Housing Material:**

PA66-GF15 for outer housing,  
PA66-GF35 for inner housing

**Wire Size Range:**

0.5–1.5 mm<sup>2</sup> (20–16 AWG)

**Product Specification:**

—

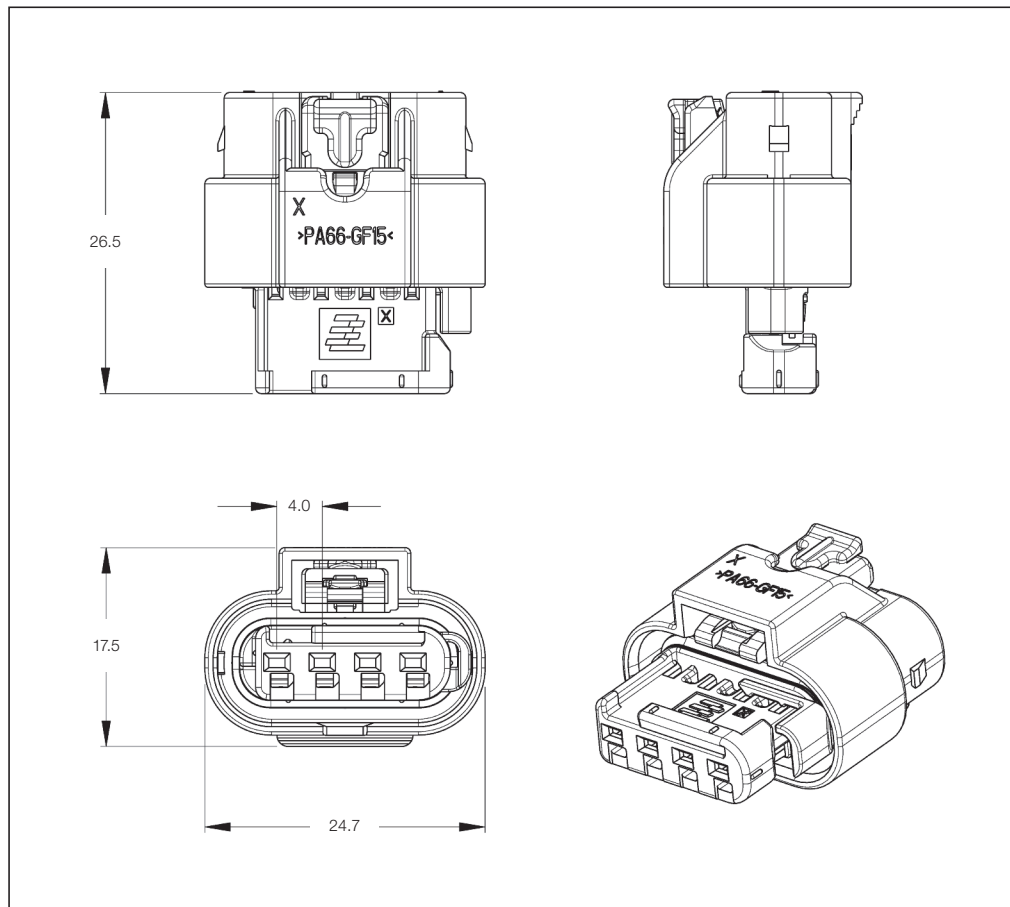
**Application Specification:**

408-8928

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

**Test Specification for 150 °C Product:**

502-1277



**Sealed 1.2 mm Receptacle Housings – Standard Latch without CPA**

No. of Positions	Keying Options	Housing Color	Temperature Rating	Part Numbers				
				Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Header Right-Angle	Mating PCB Header Vertical
3	A	Brown	150 °C	1-1456426-1	—	—	—	—
	B	Brown	150 °C	1-1456426-2				
	C	Brown	150 °C	1-1456426-3				
	D	Brown	150 °C	1-1456426-4				

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

No. of Positions	Keying Options	Housing Color	Temperature Rating	Part Numbers				
				Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Header Right-Angle	Mating PCB Header Vertical
3	A	Brown	150 °C	1-1456426-5	—	—	—	—
	B	Brown	150 °C	1-1456426-6				
	C	Brown	150 °C	1-1456426-7				
	D	Brown	150 °C	1-1456426-8				

Sealed 1.2 mm Receptacle Housings for Clean Body Contacts

**Technical Features**

**No. of Positions:**

6 Positions

**Housing Material:**

PA66-GF15 for outer housing,  
PA66-GF35 for inner housing

**Wire Size Range:**

0.5–1.5 mm<sup>2</sup> (20–16 AWG)

**Product Specification:**

—

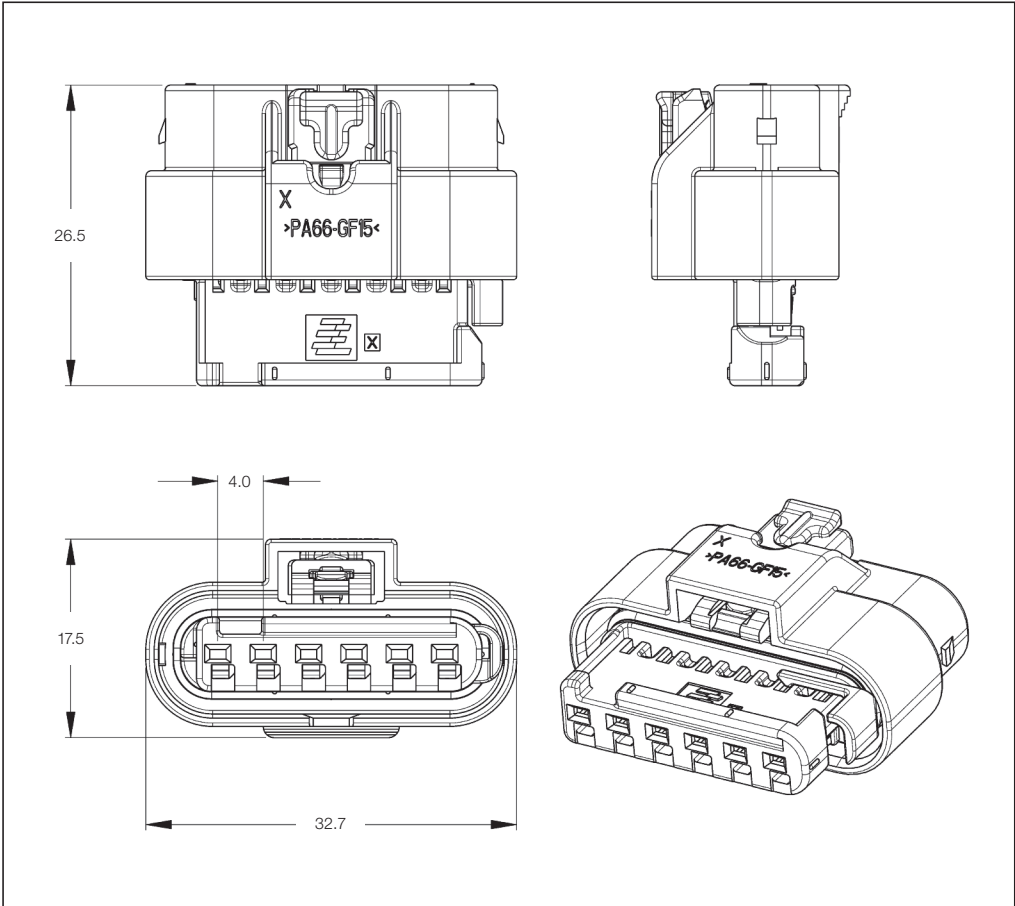
**Application Specification:**

408-8928

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

**Test Specification for 150 °C Product:**

502-1277



**Sealed 1.2 mm Receptacle Housings – Standard Latch without CPA**

No. of Positions	Keying Options	Housing Color	Temperature Rating	Part Numbers				
				Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Header Right-Angle	Vertical
6	A	Black	125 °C	1924292-1				
	B	Natural	125 °C	1924292-2				
	C	Blue	125 °C	1924292-3	—	—	—	—
	D	Gray	125 °C	1924292-4				
	A	Brown	150 °C	2098559-1				
	B	Brown	150 °C	2098559-2				
	C	Brown	150 °C	2098559-3	—	—	—	—
	D	Brown	150 °C	2098559-4				

Sealed 1.2 mm Receptacle Housings for Clean Body Contacts (continued)

**Technical Features**

**No. of Positions:**

6 Positions

**Housing Material:**

PA66-GF15 for outer housing,  
PA66-GF35 for inner housing

**Wire Size Range:**

0.5–1.5 mm<sup>2</sup> (20–16 AWG)

**Product Specification:**

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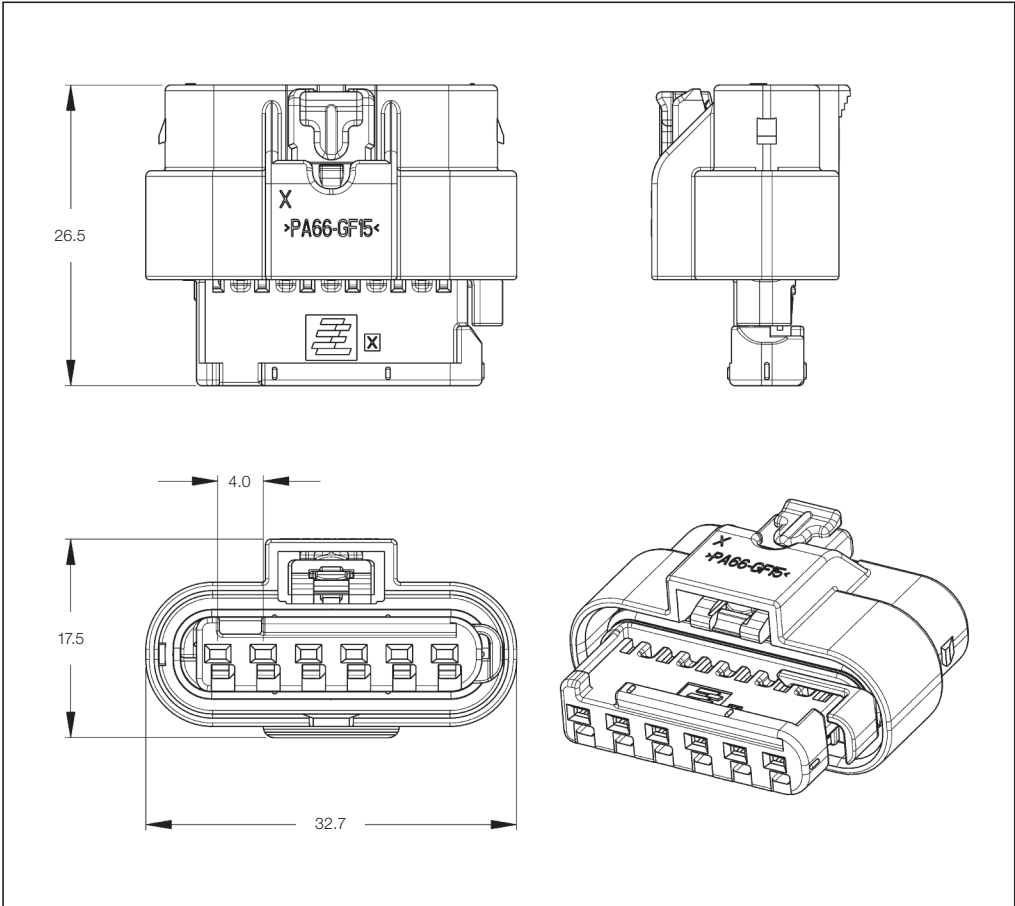
**Application Specification:**

408-8928

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

**Test Specification for 150 °C Product:**

502-1277



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

No. of Positions	Keying Options	Housing Color	Temperature Rating	Part Numbers				
				Receptacle Housing	Cover	Mating Tab Housing	Mating PCB Header Right-Angle	Vertical
6	A	Black	125 °C	1924292-5				
	B	Natural	125 °C	1924292-6				
	C	Blue	125 °C	1924292-7	—	—	—	—
	D	Gray	125 °C	1924292-8				
	A	Brown	150 °C	2098559-5				
	B	Brown	150 °C	2098559-6				
	C	Brown	150 °C	2098559-7	—	—	—	—
	D	Brown	150 °C	2098559-8				