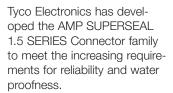


#### Introduction





AMP SUPERSEAL 1.5 SERIES Connector exceed the requirements prescribed by IP 67 according IEC 60529 and DIN 40050-9 standards and has its application in the automotive, agriculture and industrial machinery. For sensor application the AMP SUPERSEAL 1.5 SERIES Connector system is qualified as well.

## **Advantages**

- Compact system minimizes packaging requirements
- Sealing reliability proven under harsh conditions
- Designed for ease of manual harness assembly, engine mounting and under hood environments

## **Applications**

- Wire-to-Wire (1.5 mm) and ECU applications, under hood or any location where sealing is required
- Suitable for automotive, truck, bus, or off-road vehicles



## **Receptacle Contacts**

## **Technical Features**

**Contact Material:** CuZn (Tab) CuSn (Receptacle)

Contact Finish: tin plated

**Current Carrying Capacity:** 14 A max.

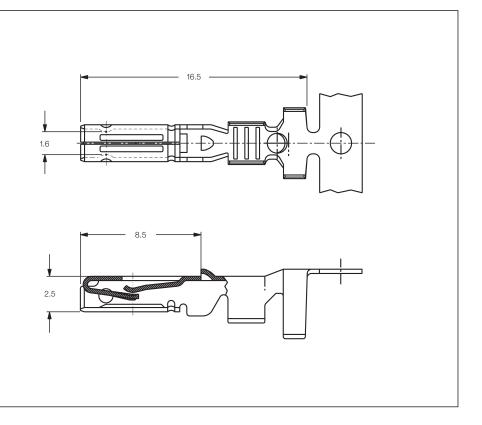
Wire Size Range: 0.35-2.5 mm<sup>2</sup>

Insulation Diameter: 1.2–3.3 mm FLR

Extraction Tool: Part No. 9-1579007-1

**Product Specification:** 108-20090

**Application Specification:** 114-20045



## 1.5 mm Receptacle Contacts

Wire Size	Wire Size Insulation Diameter   Range (mm)   (mm²) FLK FLR		Material	Part Numbers						
			and Finish	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator *	Hand Tool	
0.35–0.50	1.45-2.20	1.2–1.6	CuSn, tin plated	282403-1	14,000	183035-1	5,000	x-1528347-x	2031676-1	
0.75–1.50	2.40-3.35	1.7–2.4	CuSn, tin plated	282110-1	14,000	183025-1	5,000	x-1528018-x	2031676-1	
1.5–2.5	3.15–3.80	2.2–3.3	CuSn, tin plated	282466-1	14,000	_	-	x-1426361-x	_	

Note: All part numbers are RoHS and ELV compliant.

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



Tab Contacts

## **Technical Features**

**Contact Material:** CuZn (Tab) CuSn (Receptacle)

Contact Finish: tin plated, gold plated

**Current Carrying Capacity:** 14 A max.

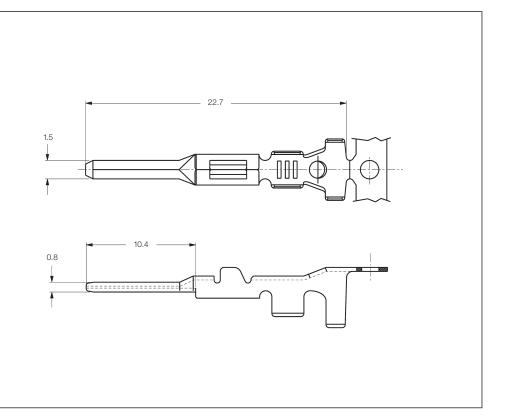
Wire Size Range: 0.35-2.5 mm<sup>2</sup>

Insulation Diameter: 1.2–3.3 mm FLR

Extraction Tool: Part No. 9-1579007-1

**Product Specification:** 108-20090

**Application Specification:** 114-20045



## 1.5 mm Tab Contacts

Wire Size			Material	Part Numbers						
Range (mm²)	(mi	m) FLR	and Finish	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator *	Hand Tool	
0.35-0.50			CuZn, tin plated	282404-1	16,000	183036-1	5,000	x-1528199-x	2031676-1	
0.35-0.50	1.45–2.20	1.2–1.6	CuZn, gold plated	282404-3	16,000	-	-	X-1320199-X	2001070-1	
0.75-1.50	0 40 0 25	1704	CuZn, tin plated	282109-1	16,000	183024-1	5,000	x-1528463-x	2031676-1	
0.75-1.50 2.40-3.35		.40–3.35 1.7–2.4 CuZn, g		282109-3	16,000	-	_	X-1020400-X	2031070-1	
1.5–2.5	3.15–3.80	2.2–3.3	CuZn, tin plated	282465-1	16,000	-	-	x-1528200-x	-	

Note: All part numbers are RoHS and ELV compliant.

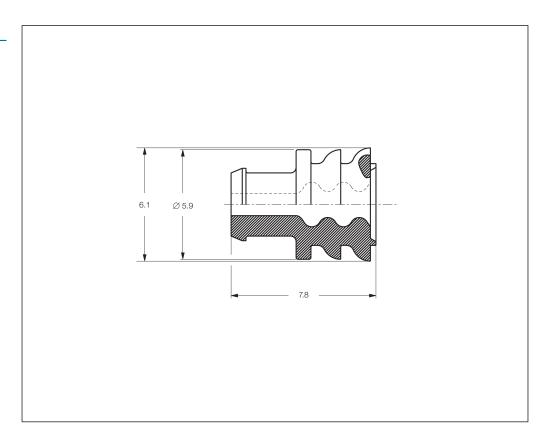
 The pre- and suffix for the applicators depends on the applied termination equipment.



## Single Wire Seals and Cavity Plugs

## **Technical Features**

- Made from silicon rubber material
- For insulation diameters of 1.2-3.3 mm
- Loose-piece wire seals are crimped simultaneously with the contacts



#### Single Wire Seals and Cavity Plugs

Insulation Diameter (mm)		Color	Part Number	Package	
FLK	FLR			Quantity	
_	1.2–1.6	Green	281934-4	50,000	
-	1.7-2.4	Yellow	281934-2	50,000	
-	2.5–3.3	Red	281934-3	50,000	
Cavit	y Plugs	Red	282081-1	50,000	



## **Plug Housings**

# **Plug Housings**

Utilizes Receptacle Contacts

## **Technical Features**

Housing Material: Polyamide 6.6 glass-filled

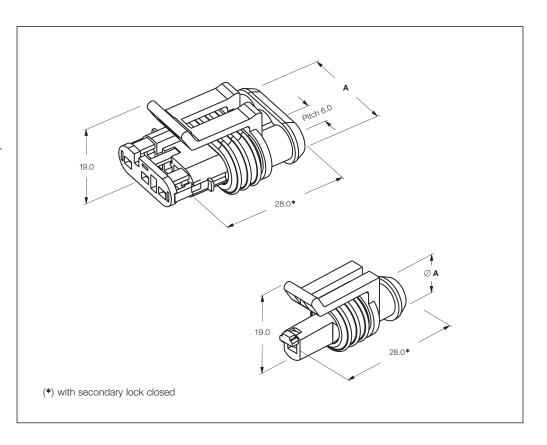
**Color:** Black (other colors available) Orange (closed cavities)

Secondary Lock: Polyamide 6.6 glass-filled Color:

Red

Sealing: Silicon Rubber

Color: Yellow



#### **Plug Housings**

No. of	Dimension A	Part Number	Package
Positions	(mm)		Quantity
1	9.3	282079-2	3,000
2	15.3	282080-1	1,600
3	21.3	282087-1	1,300
4	27.3	282088-1	1,000
5	33.3	282089-1	500
6	39.3	282090-1	400

## **Plug Housings with Closed Cavities**

No. of Positions	Dimension A	Part Number	Package Quantity	
FOSILIOIIS	(mm)		Quantity	
2	15.3	1745025-1	1,600	
4	27.3	1745101-1	1,000	
5	33.3	1745103-1	500	



## **Cap Housings**

## **Cap Housings**

Utilizes Tab Contacts

Also suitable for panel mount application (see detail "X").

Locking clip not manufactured by Tyco Electronics.

#### **Technical Features**

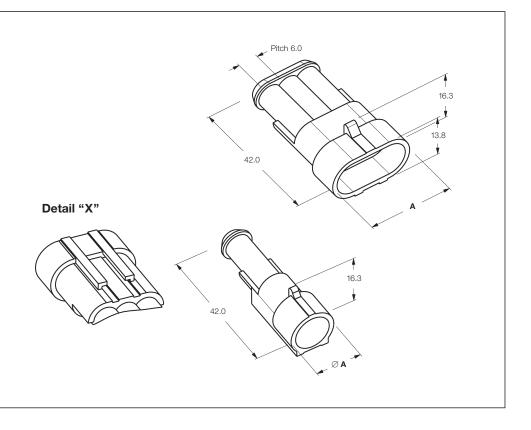
Housing Material: Polyamide 6.6 glass-filled Color: Black (other colors available) Orange (closed cavities)

Secondary Lock: Polyamide 6.6 glass-filled

Color: Red

Extraction Tool for Secondary Lock of Cap Housing: Part No. 785084-1

Insertion Tool for Secondary Lock of Cap Housing: Part No. 785061-1 for 1 and 2 positions Part No. 785061-2 for 3–6 positions



### **Cap Housings**

\_

\_\_\_\_

No. of	Dimension A	Part Number	Package	
Positions	(mm)		Quantity	
1	13.8	282103-1	2,200	
2	19.8	282104-1	1,500	
3	25.8	282105-1	1,200	
4	31.8	282106-1	500	
5	37.8	282107-1	700	
6	43.8	282108-1	550	

## **Cap Housings with Closed Cavities**

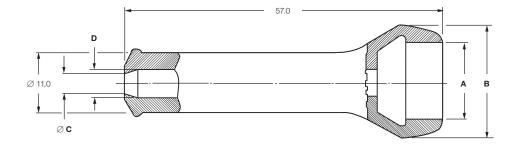
No. of Positions	Dimension A	Part Number	Package Quantity	
Positions	(mm)		Quantity	
2	19.8	1745022-1	1,500	
3	25.8	1745020-1	1,200	
5	37.8	1745018-1	700	



## Rubber Boots

## **Rubber Boots**

Connector Housing Part Number	Description	No. of Positions	Rubber Boot Part Number	Color	Package Quantity
282080-1	Plug Housing	2	880810-1	Black	1,500
282104-1	Cap Housing	2	000010-1	DIACK	1,500
282087-1	Plug Housing	3	880811-2	Black	1 000
282105-1	Cap Housing	3	000011-2	DIGCK	1,000



## **Dimensional Data**

Boot Part Number	No. of Wires		Dimensions (mm)			
Part Number	wires	А	В	С	D	
880810-1	2	12.5	20.5	4.6	5.0	
880811-2	3	17.5	25.5	4.6	5.0	
493581-1*	4	21.0	34.5	-	7.0	

\*) Different Style, see customer drawing.

#### Numerical Index

Part Number	Page	Part Number	Page	Part Number	Page
183024-1	28-3	282103-1	28-6	493581-1	28-7
183025-1	28-2	282104-1	28-6, 28-7	785061-1	28-6
183035-1	28-2	282105-1	28-6, 28-7	785061-2	28-6
183036-1	28-3	282106-1	28-6	785084-1	28-6
281934-2	28-4	282107-1	28-6	880810-1	28-7
281934-3	28-4	282108-1	28-6	880811-2	28-7
281934-4	28-4	282109-1	28-3	9-1579007-1	28-2, 28-3
282079-2	28-5	282109-3	28-3	1745018-1	28-6
282080-1	28-5, 28-7	282110-1	28-2	1745020-1	28-6
282081-1	28-4	282403-1	28-2	1745022-1	28-6
282087-1	28-5, 28-7	282404-1	28-3	1745025-1	28-5
282088-1	28-5	282404-3	28-3	1745101-1	28-5
282089-1	28-5	282465-1	28-3	1745103-1	28-5
282090-1	28-5	282466-1	28-2	2031676-1	28-2, 28-3

#### Disclaimer

While Tyco Electronics and its affiliates referenced herein have made every reasonable effort to ensure the accuracy of the information contained in this catalog, Tyco Electronics cannot assure that this information is error free. For this reason, Tyco Electronics does not make any representation or offer any guarantee that such information is accurate, correct, reliable or current. Tyco Electronics reserves the right to make any adjustments to the information at any time. Tyco Electronics expressly disclaims any implied warranty regarding the information contained herein, including, but not limited to, the implied warranties of merchantability or fitness for a particular purpose. Tyco Electronics vill in no case be liable for any incidental, indirect or consequential damages arising from or in connection with, including, but not limited to, the sale, resale, use or misuse of its products. Users should rely on their own judgment to evaluate the suitability of a product for a certain purpose and test each product for its intended application.

In case of any potential ambiguities or questions, please don't hesitate to contact us for clarification.

www.tycoelectronics.com

www.tycoelectronics.com/automotive

AMP, AMP SUPERSEAL 1.5 SERIES, TE (Logo) and Tyco Electronics are trademarks of the Tyco Electronics Group of Companies and its Licensors.