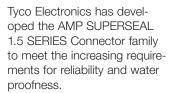


Introduction





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.

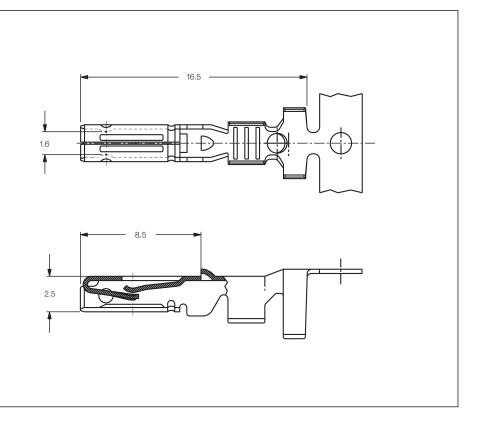
Wire Size Range: 0.35-2.5 mm²

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.

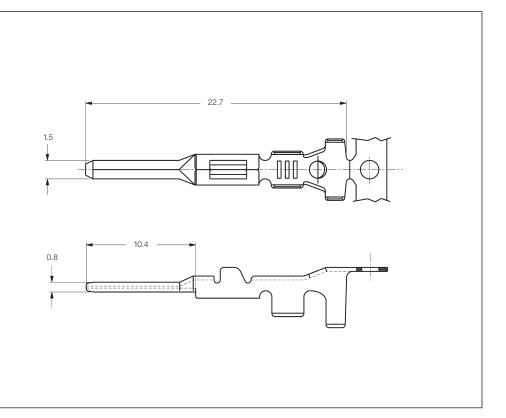
Wire Size Range: 0.35-2.5 mm²

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.

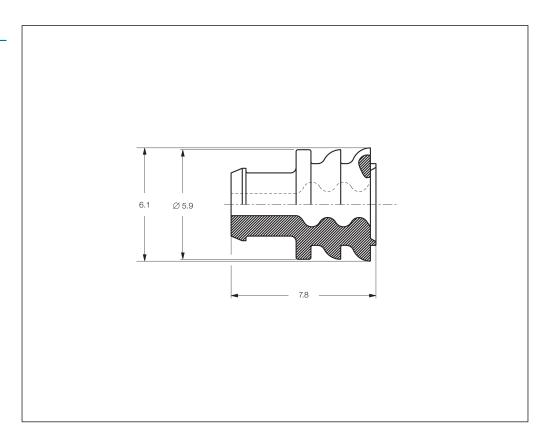
 The pre- and suffix for the applicators depends on the applied termination equipment.



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

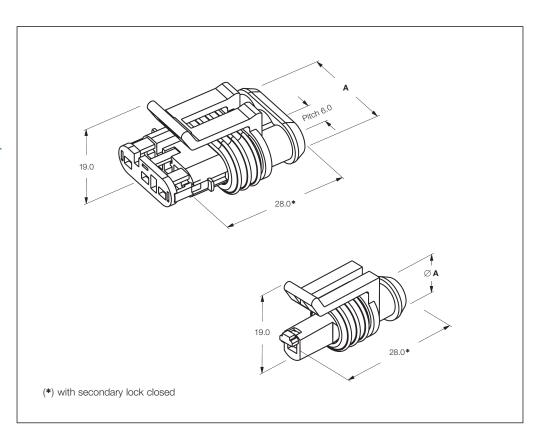
Color: Black (other colors available) Orange (closed cavities)

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

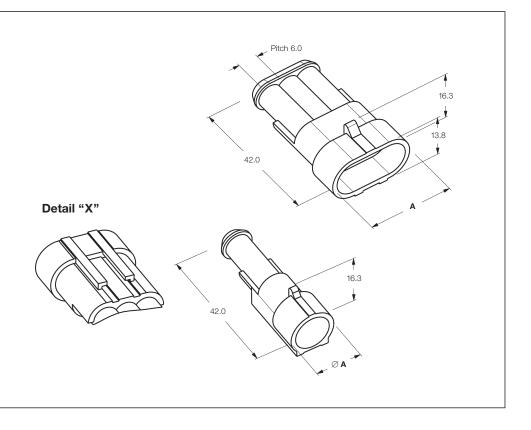
Housing Material: Polyamide 6.6 glass-filled Color: Black (other colors available) Orange (closed cavities)

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

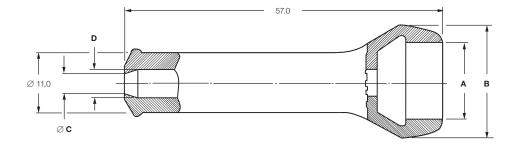
No. of Positions	Dimension A	Part Number	Package Quantity	
Positions	(mm)		Quantity	
2	19.8	1745022-1	1,500	
3	25.8	1745020-1	1,200	
5	37.8	1745018-1	700	



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

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