

Introduction



Tyco Electronics has developed the AMP SUPERSEAL 1.5 SERIES Connector family to meet the increasing requirements for reliability and water proofness.

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:

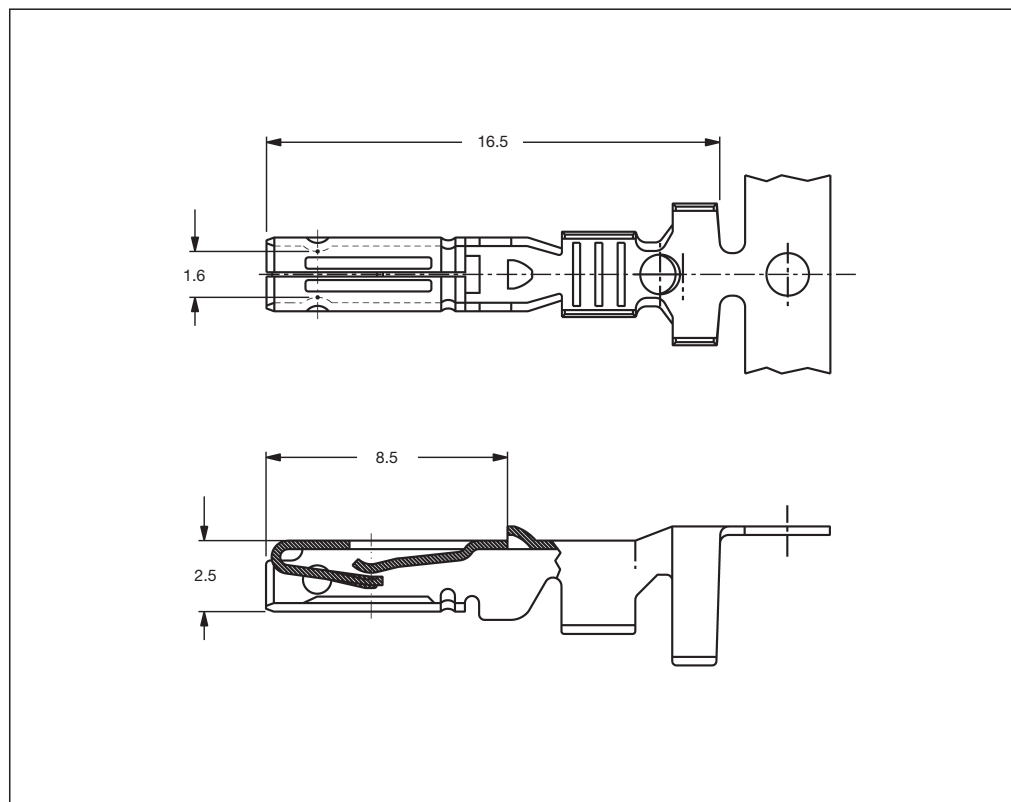
Part No. **9-1579007-1**

Product Specification:

108-20090

Application Specification:

114-20045



1.5 mm Receptacle Contacts

Wire Size Range (mm ²)	Insulation Diameter (mm)		Material and Finish	Part Numbers				Applicator	Hand Tool
	FLK	FLR		Strip Form	Package Quantity	Loose-Piece	Package Quantity		
0.35–0.50	1.45–2.20	1.2–1.6	CuSn, tin plated	282403-1	14,000	183035-1	5,000	1528347-1	58583-1
0.75–1.50	2.40–3.35	1.7–2.4	CuSn, tin plated	282110-1	14,000	183025-1	5,000	1528018-1	58583-1
1.5–2.5	3.15–3.80	2.2–3.3	CuSn, tin plated	282466-1	14,000	–	–	1426361-1	–

Note: All part numbers are RoHS and ELV compliant.

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:

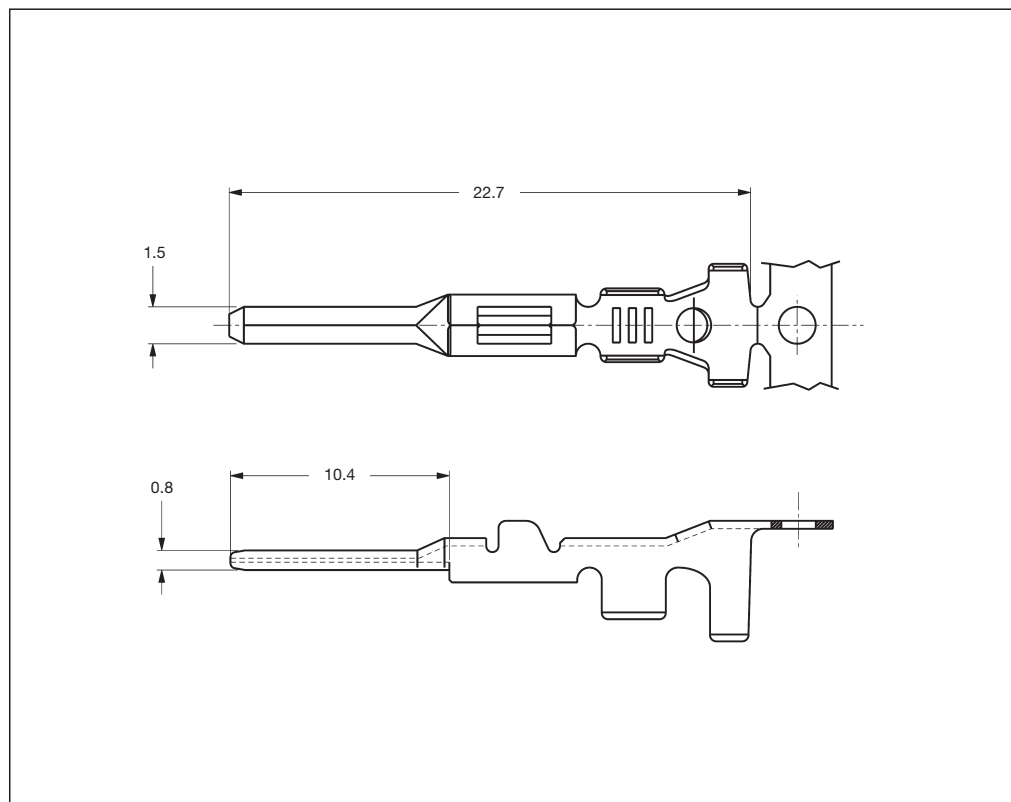
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1.5 mm Tab Contacts

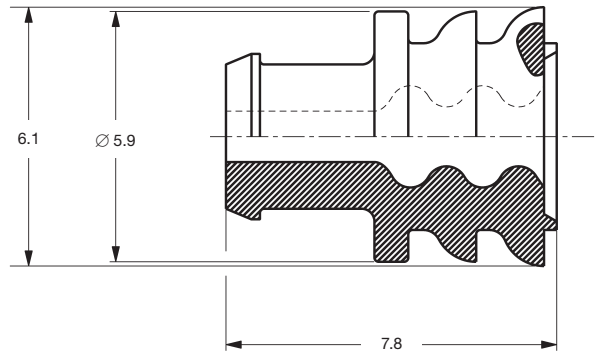
Wire Size Range (mm ²)	Insulation Diameter (mm)		Material and Finish	Part Numbers				Applicator	Hand Tool
	FLK	FLR		Strip Form	Package Quantity	Loose-Piece	Package Quantity		
0.35–0.50	1.45–2.20	1.2–1.6	CuZn, tin plated	282404-1	16,000	183036-1	5,000	1528199-1	58583-1
			CuZn, gold plated	282404-3	16,000	–	–		
0.75–1.50	2.40–3.35	1.7–2.4	CuZn, tin plated	282109-1	16,000	183024-1	5,000	1528463-1	58583-1
			CuZn, gold plated	282109-3	16,000	–	–		
1.5–2.5	3.15–3.80	2.2–3.3	CuZn, tin plated	282465-1	16,000	–	–	1528200-1	–

Note: All part numbers are RoHS and ELV compliant.

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 Plug

Insulation Diameter (mm)		Color	Part Number	Package Quantity
FLK	FLR			
–	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
Cavity Plug		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)

Secondary Lock:

Polyamide 6.6 glass-filled

Color:

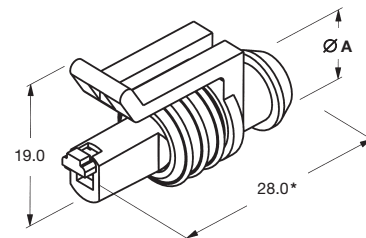
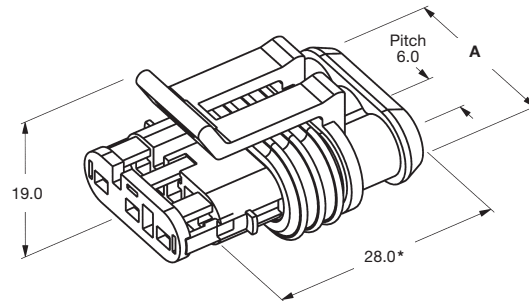
Red

Sealing:

Silicon Rubber

Color:

Yellow



(*) with secondary lock closed

Plug Housings

No. of Positions	Dimension A	Part Number	Package Quantity
	(mm)		
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

Cap Housings

Cap Housings

Utilizes Tab Contacts

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

Technical Features

Housing Material:

Polyamide 6.6 glass-filled

Color:

Black (other colors available)

Secondary Lock:

Polyamide 6.6 glass-filled

Color:

Red

Extraction Tool for Secondary Lock of Cap Housing:

Part No. **785084-1**

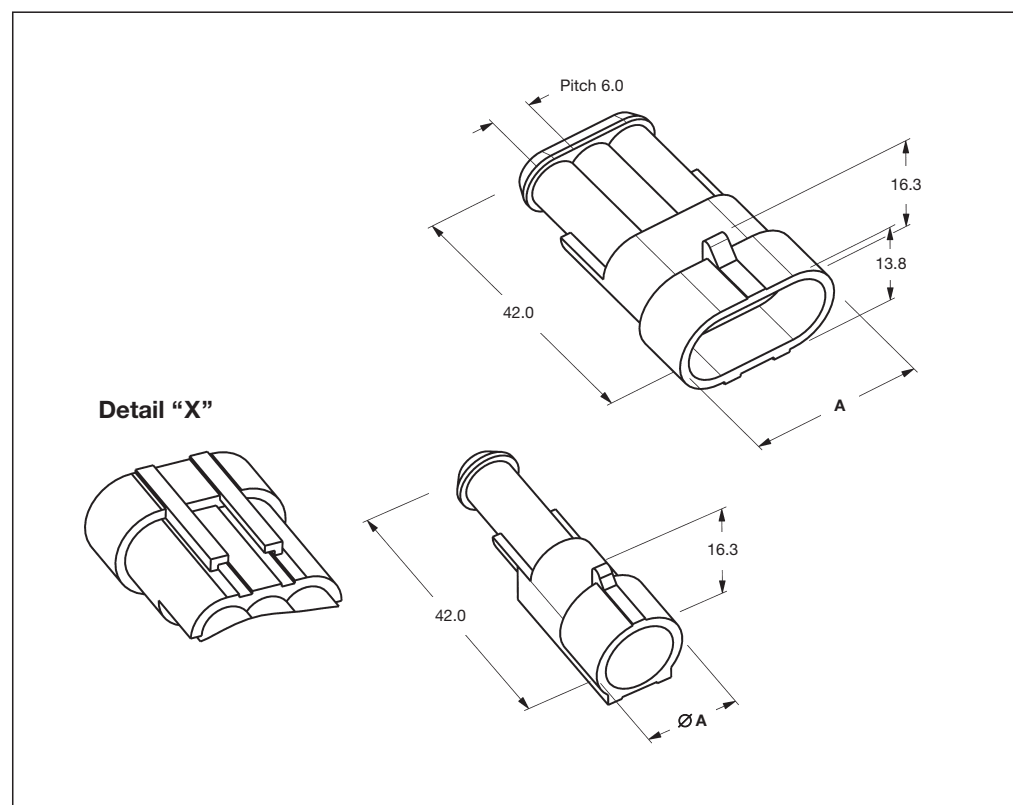
Insertion Tool for Secondary Lock of Cap Housing:

Part No. **785061-1**

for 1 and 2 positions

Part No. **785061-2**

for 3–6 positions



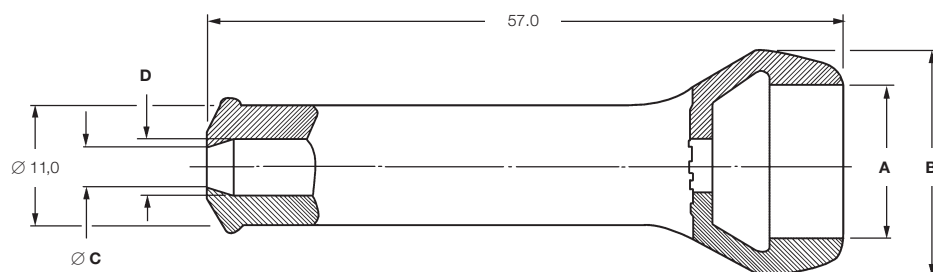
Cap Housings

No. of Positions	Dimension A (mm)	Part Number	Package 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

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				
282087-1	Plug Housing	3	880811-2	Black	1,000
282105-1	Cap Housing				
282089-1	Plug Housing	5	880814-1	Black	100
282107-1	Cap Housing				



Dimensional Data

Boot Part Number	No. of Wires	Dimensions (mm)			
		A	B	C	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
880814-1	5	27.5	35.0	6.5	7.0

*) Different Style, see customer drawing

Introduction



Application Tooling from Tyco Electronics is designed to perform perfect terminations, time after time. This results in productivity gains, yielding more terminations for less money at the time of application, and in service.

It is this combination of superior quality at a lower installed end cost that distinguishes the Tyco Electronics system solution.

Because production requirements vary, GATD – Global Application Tooling Division – can provide various levels of tooling to meet the full spectrum of output requirements. The continuous support by our field service completes the Tyco Electronics system. Our field service engineers ensure the application equipment fulfill all requirements at any given time.

Please use the tooling website and the online search to find the tooling that best suits your application.

Put your terminal part number either into the hand tool or applicator database and the appropriate tool will be shown.

If you can't find what you are looking for, it does not necessarily mean that there is nothing available for your application:

For cross-referencing information – contact one of our Product Information Centers (PIC), listed in the selection from the left-hand menu box.

For more complex equipment and technical help – find your country contact by selecting from the left-hand menu box or contact your Tyco Electronics representative.

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183035-1	17	282106-1	21	785084-1	21
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