



RoHS
Ready 



LEAVYSEAL Connector Series

with flame-retardant material acc. UL 94 V-0



INDUSTRIAL & COMMERCIAL
TRANSPORTATION

Industrial & Commercial Transportation

When every connection counts, TE Connectivity delivers reliable connectivity products designed to withstand harsh environmental conditions for on and off-highway vehicles and recreational transportation. As a world leader in rough and rugged connectivity, you can depend on TE Connectivity to provide innovative solutions for field applications where failure is not an option.

We go to extremes to make every connection count

The Industrial & Commercial Transportation business unit of TE Connectivity is a world leader in connectors and interconnect systems for use in the toughest and harshest environments. From trucks to tractors, from motorcycles to recreational vehicles, we offer products that work just as hard as the vehicles in which they are installed.

Our intelligent yet robust solutions and technologies function reliably in applications with high vibration and extreme temperature characteristics. The new business unit combines the service portfolios of DEUTSCH and TE Connectivity under one roof. The DEUTSCH brand is a global leader in interconnect solutions for use in heavy equipment and harsh industrial environments.

TE Connectivity has been among the world leaders in interconnect systems for automotive and system manufacturers for over 50 years. We offer you one of the world's most comprehensive connector product portfolios.

Thanks to the breadth of our product range, our global presence and our innovative strength, we are able to develop targeted solutions for the most demanding requirements of a rapidly changing market.

We engineer tough products for your application needs. We know that dependability is a must in the field or at the site. That's why our engineers designed rugged, high vibration resistant connector solutions to meet your application requirements.

Support

We provide options to meet your needs. TE Connectivity offers sales options to service all Industrial & Commercial Transportation customers, including factory direct, LADD Distribution and third party distribution. Contact your local sales representative for more information.

Please note our global contacts on page 23.



Industrial & Commercial Transportation Markets

On-Highway Vehicles

These include trucks (class 6 – 8, and utility), buses (city buses, coaches, school buses) and emergency vehicles.



Off-Highway Vehicles

In this segment, we equip construction vehicles such as front-loaders, dump trucks, excavators and bulldozers. In agriculture vehicles, our products are widely used in tractors and combine harvesters, for example. This segment also includes special vehicles like industrial lifts or material handling vehicles.



Recreational Transportation

From boats (including personal watercraft) to motorcycles, scooters, snowmobiles, ATVs and recreational vehicles, the range of recreational vehicles is broad.

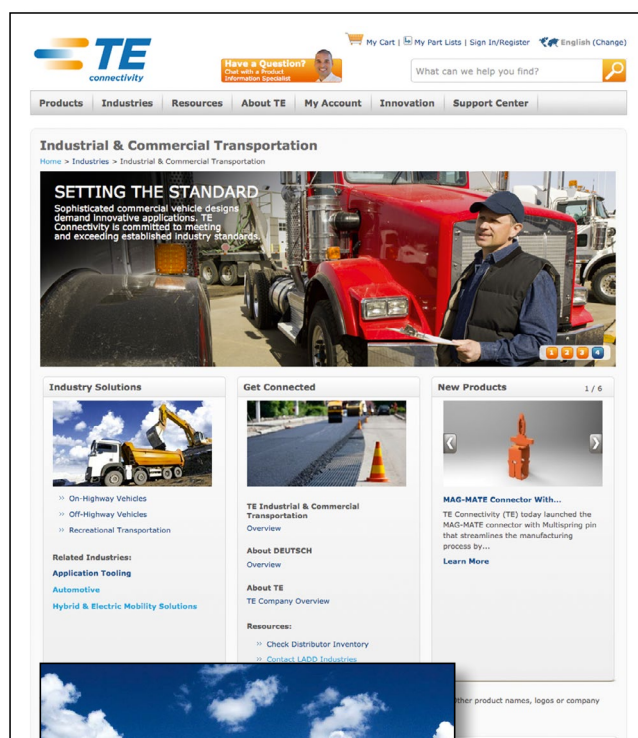
Whatever the application, we have a connector to match.



Industrial & Commercial Transportation

The TE Connectivity Industrial & Commercial Transportation website is an innovative and interactive source for application information, product updates and technical solutions.

Industrial & Commercial Transportation online



Product and Machine Literature

TE Connectivity Industrial & Commercial Transportation offers a variety of product specific catalogs, brochures and high impact flyers to help better serve you!

For more information on literature for TE Connectivity Industrial & Commercial Transportation, please contact your local organization or go to www.te.com/en/industries/industrial-commercial-transportation.html

TE Products

www.te.com/en/products/product-landing.html

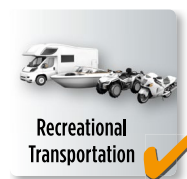
Product Information Center (PIC)

You can rely on TE Connectivity's PIC Team to provide you support for answers to your general information or technical questions in an efficient and effective manner.

To reach our PIC staff, please contact your local organization or see our Global Contacts page. Please contact us at www.te.com/support-center



Introduction



Reliable connector system for the truck industry



LEAVYSEAL multi-position connectors, based on AMP MCP terminals, have proven themselves in truck applications where they withstand vibration and temperature exposure. Building on that experience, the successful connector family has now been expanded with new options including flame-retardant housings.

LEAVYSEAL connector family gives a choice from 7 connector groups of 15 to 120 positions, with terminals of 3 different sizes. This series has been designed for long-term use in harsh environments and to meet increasing requirements of the truck industry.

This fully sealed series combines the advantages of proven AMP MCP terminals with a robust design and easy mating of multi-position connectors.

The lever-slide mechanism reduces the force required to close the system and offers easy handling. Due to high vibration resistance, perfect temperature behaviour and the size, LEAVYSEAL connectors are the product of choice for major commercial vehicles ECU manufacturers.

Typical Applications are:

Device interface, door, pass-through (bulkhead) or harness disconnection.

Technical Features

- UL-94 V-0 rated materials, indicated by red lever
- High vibration level supported
- Integrated secondary locking device delivered in pre-locked position
- Polarization, several keyings
- Lever-slide mechanism
- Easy handling
- Mixed terminal sizes in one housing

Sealed AMP MCP 1.5K/2.8 Receptacle Housings

Technical Features

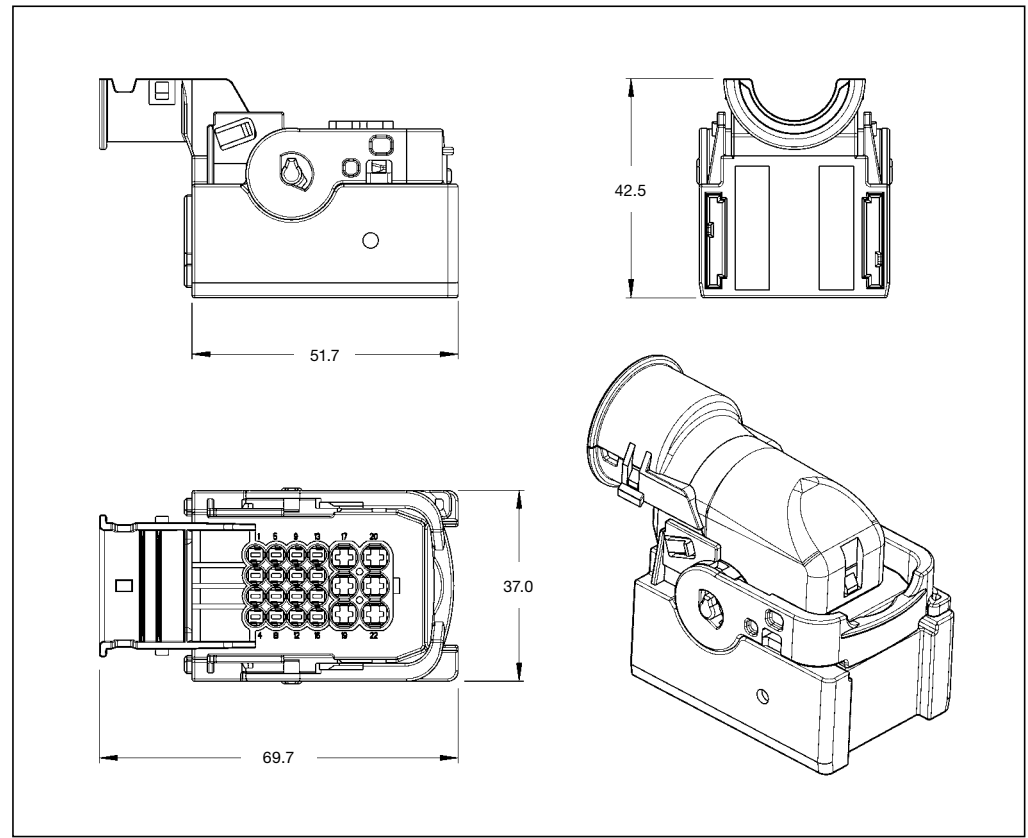
No. of Positions:
22 Positions

Housing Material:
PBT-GF30

Wire Size Range:
16x AMP MCP 1.5K
1.5mm² FLR Max.
6x AMP MCP 2.8
2.5mm² FLR Max.
AWG 12 TXL Max.

Product Specification:
108-94204

Application Specification:
114-18993

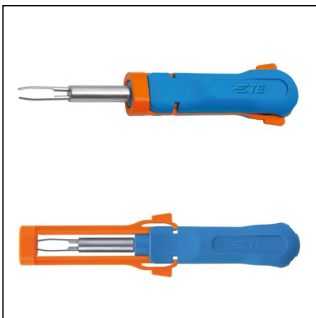


Sealed Mixed Receptacle Housings

No. of Positions	Keying Options	Housing Color	Part Numbers			
			Receptacle Housing	Package Quantity	Cover	Mating Tab Housing
22	A	Black	1-1823440-3	180	2112452-1	1-1823449-1
	B	Gray	2-1823440-3	180		*)
	C	Blue	3-1823440-3	180		*)
	D	Green	4-1823440-3	180		*)

*) On request

Extraction Tool:
Part No. 1579007-1*



Extraction Tool:
Part No. 1-1579007-1*



*dependent on the contact

Sealed AMP MCP 2.8 Receptacle Housings

Technical Features

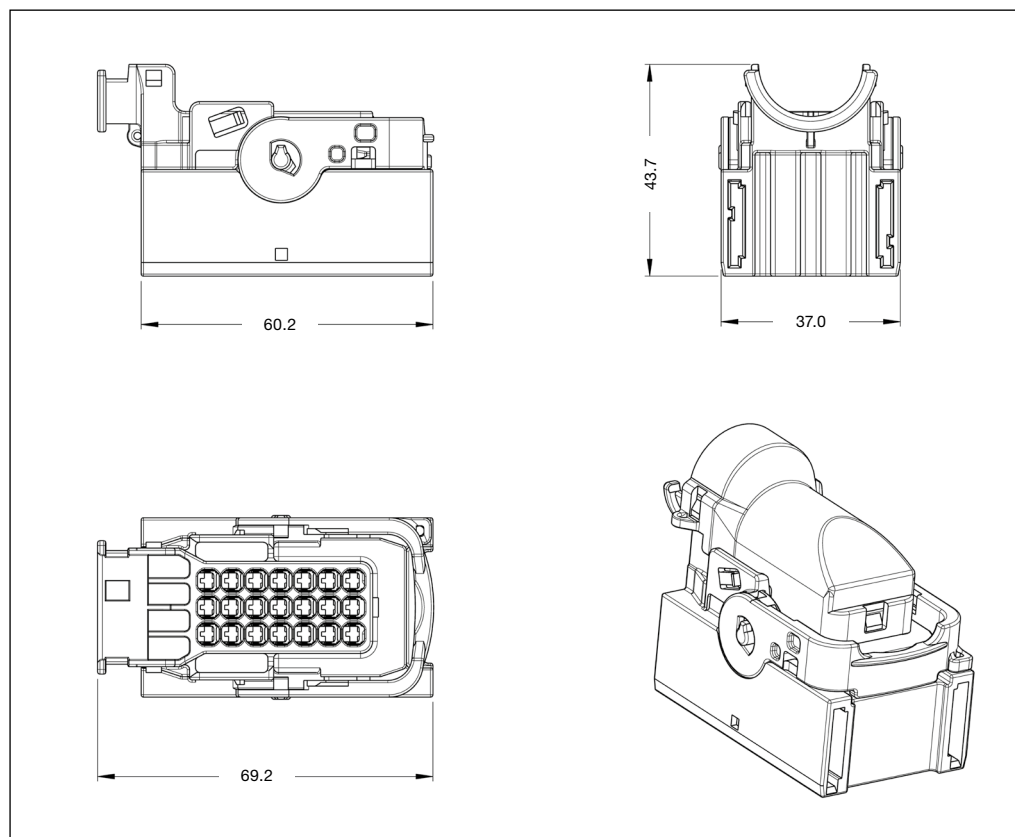
No. of Positions:
21 Positions

Cavity Block:
V-0

Wire Size Range:
2.5mm² FLR Max.
AWG 12 TXL Max.

Product Specification:
108-18696

Application Specification:
114-18376

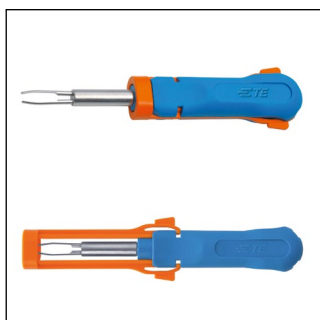


Sealed Receptacle Housings

No. of Positions	Keying Options	Housing Color	Part Numbers			
			Receptacle Housing	Package Quantity	Cover	Mating Tab Housing with Flange
21	A	Black	1-2208686-1	160	9-1394050-1**	1-2112162-1
						Mating Vertical PCB Header
						1534238-1*

***) On request in UL94 V-0 material

Extraction Tool:
Part No. 1579007-1



LEAVYSEAL Connector Series

with flame-retardant material acc. UL 94 V-0

Catalog 1654324
Issued 10-2013

Sealed AMP MCP 1.5K/2.8/6.3 Receptacle Housings

Technical Features

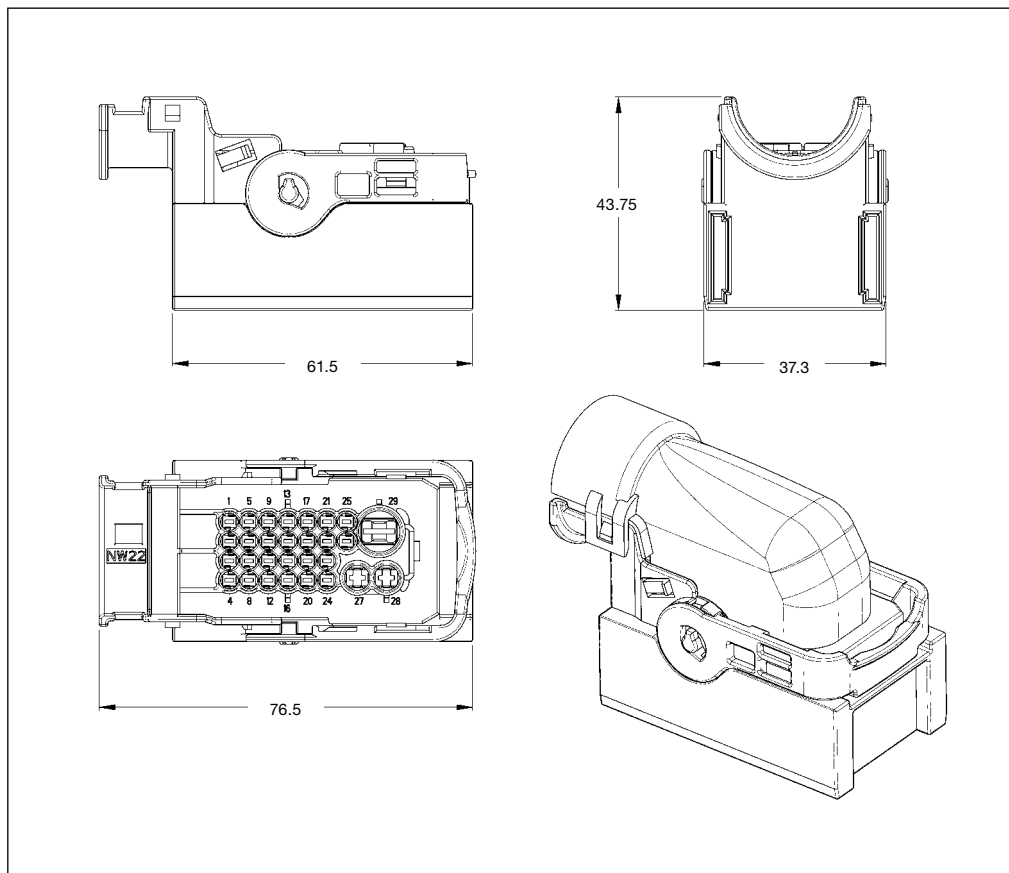
No. of Positions:
29 Positions

Housing Material:
V-0

Wire Size Range:
26x AMP MCP 1.5K
1.5mm² FLR Max.
2x AMP MCP 2.8
2.5mm² FLR Max.
1x AMP MCP 4.8K/6.3
6.0mm² FLR Max.

Product Specification:
108-94215

Application Specification:
114-94011

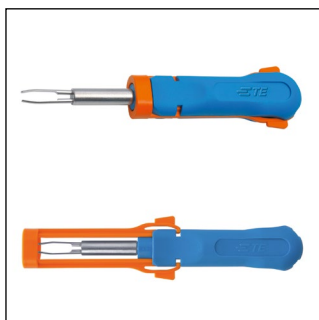


Sealed Mixed Receptacle Housings

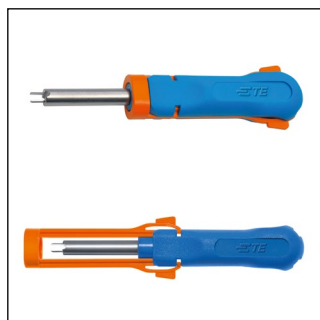
No. of Positions	Keying Options	Housing Color	Part Numbers			
			Receptacle Housing	Package Quantity	Cover	Mating Tab Housing
29	A	Black	1-1823402-1	117		
	B	Gray	2-1823402-1	117	*)	*)
	C	Blue	3-1823402-1	117		

*) On request

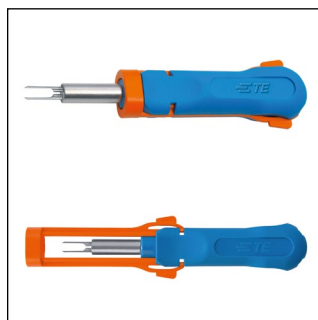
Extraction Tool:
Part No. 1579007-1*



Extraction Tool:
Part No. 1-1579007-1*



Extraction Tool:
Part No. 1-1579007-3*



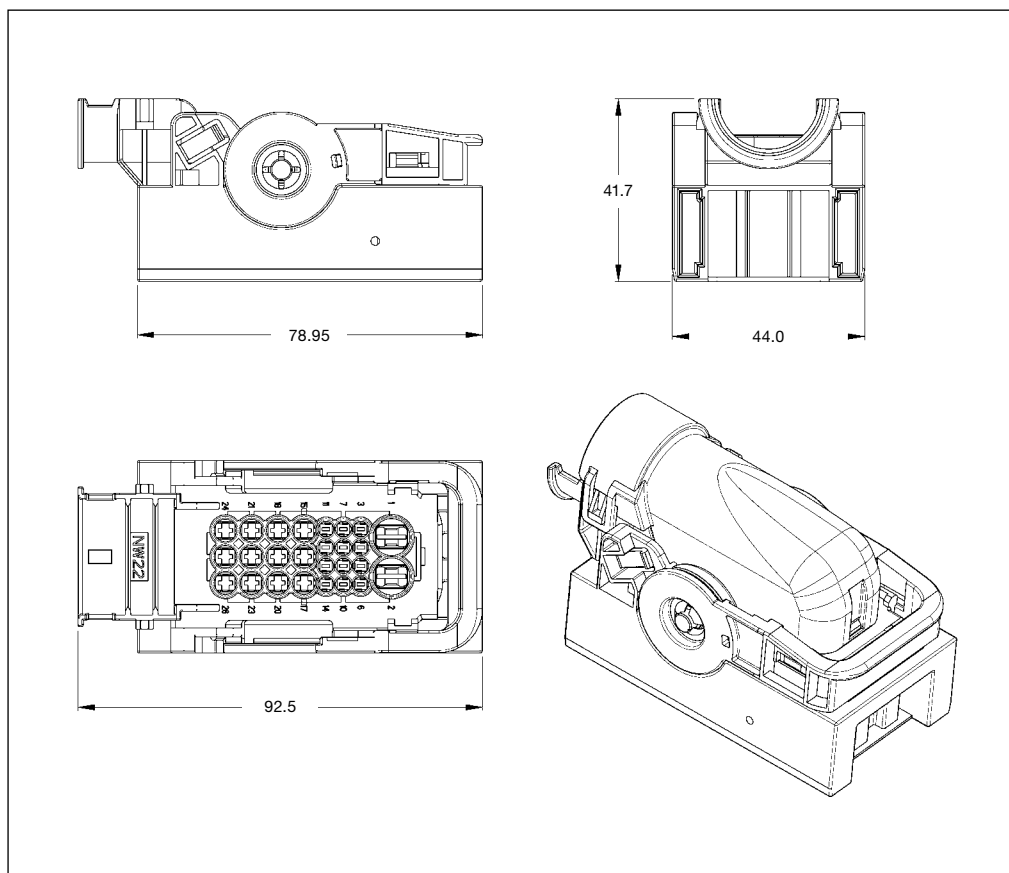
*)dependent on the contact

Sealed AMP MCP 1.5K/2.8/6.3 Receptacle Housings
Technical Features
No. of Positions:
26 Positions

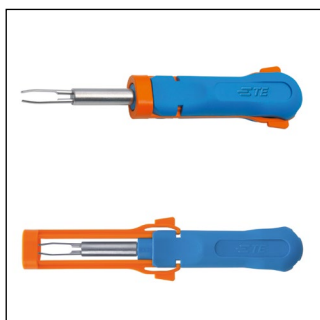
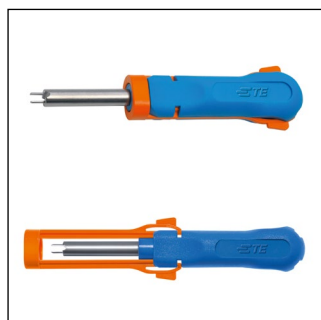
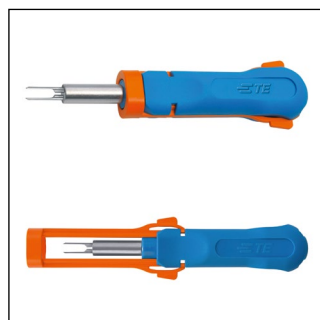
Housing Material:
V-0

Wire Size Range:
12x AMP MCP 1.5K
1.5mm² FLR Max.
12x AMP MCP 2.8
2.5mm² FLR Max.
2x AMP MCP 4.8K/6.3
6.0mm² FLR Max.

Product Specification:
108-94214

Application Specification:
114-94010

Sealed Mixed Receptacle Housings

No. of Positions	Keying Options	Housing Color	Part Numbers			
			Receptacle Housing	Package Quantity	Cover	Mating Tab Housing
26	A	Black	1-2112035-1	96	2112046-1	1-2112041-1 1-2112041-2

Extraction Tool:
Part No. 1579007-1*

Extraction Tool:
Part No. 1-1579007-1*

Extraction Tool:
Part No. 1-1579007-3*


*dependent on the contact

Sealed AMP MCP 2.8/6.3 Receptacle Housings

Technical Features

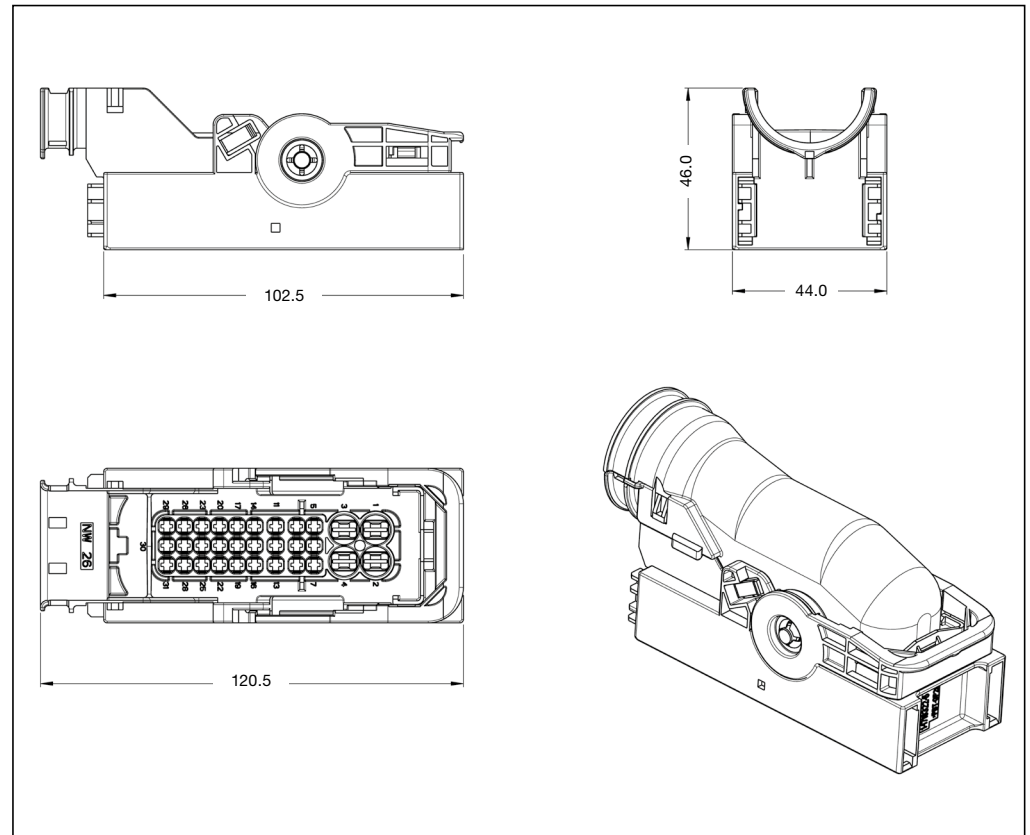
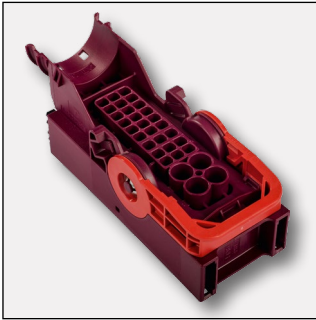
No. of Positions:
31 Positions

Cavity Block:
V-0

Wire Size Range:
27x AMP MCP 2.8
2.5mm² FLR Max./
AWG 12 TXL Max.
4x AMP MCP 4.8K/6.3
6.0mm² FLR Max.

Product Specification:
108-18946

Application Specification:
114-18660

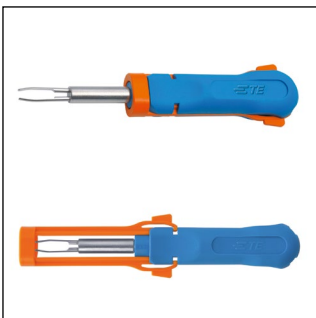


Sealed Receptacle Housings

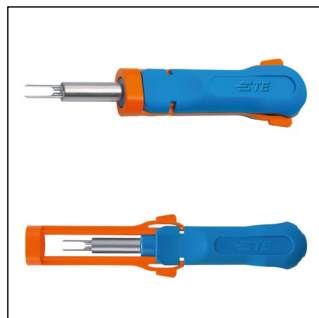
No. of Positions	Keying Options	Housing Color	Part Numbers				
			Receptacle Housing	Cover	Mating Tab Housing*	Mating PCB Header*	90° Angled
31	A	Bordeaux	1-2208685-6	1823500-1	*)	*)	*)

*) On request

Extraction Tool:
Part No. 1579007-1*



Extraction Tool:
Part No. 1-1579007-3*



*)dependent on the contact

Sealed AMP MCP 2.8 Receptacle Housings

Technical Features

No. of Positions:

39 Positions

Cavity Block:

V-0

Wire Size Range:

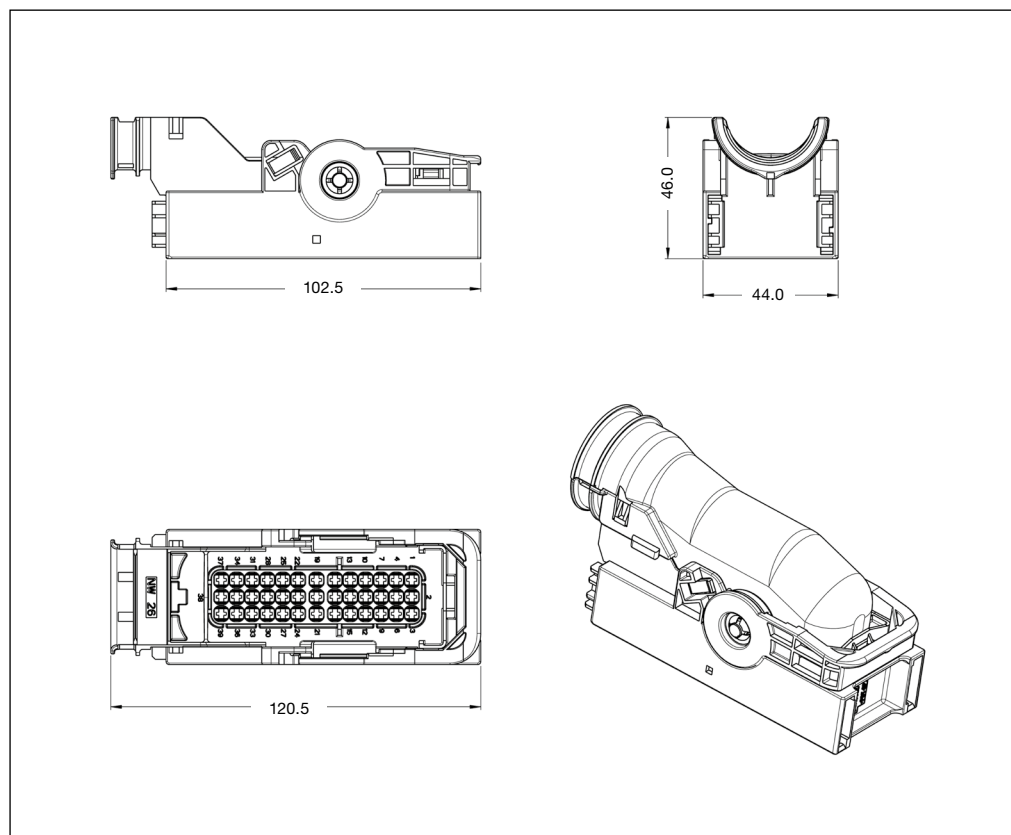
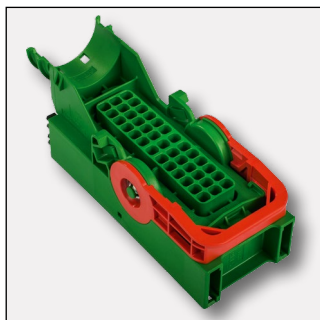
AMP MCP 2.8
2.5mm² FLR Max.
AWG 12 TXL Max.

Product Specification:

108-18946

Application Specification:

114-18660



Sealed Receptacle Housings

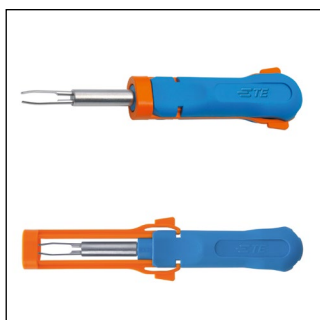
No. of Positions	Keying Options	Housing Color	Part Numbers				
			Receptacle Housing	Cover	Mating Tab Housing*	Mating PCB Header* Straight	90° Angled
39	E	Emerald Green	5-2208684-3	1823500-1	5-1718323-1*	5-1418363-1*	5-1418362-3*
	F	Fawn Brown	6-2208684-3	1823500-1	6-1718323-1*	**	**

*) On request VL94 V-0 rated

**) On request

Extraction Tool:

Part No. 1579007-1



Sealed AMP MCP 1.5K/2.8 Receptacle Housings
Technical Features
No. of Positions:

62 Positions

Housing Material:

V-0

Wire Size Range:

56x AMP MCP 1.5K

1.5mm² FLR Max.

AWG 16 TXL Max.

6x AMP MCP 2.8

2.5mm² FLR Max.

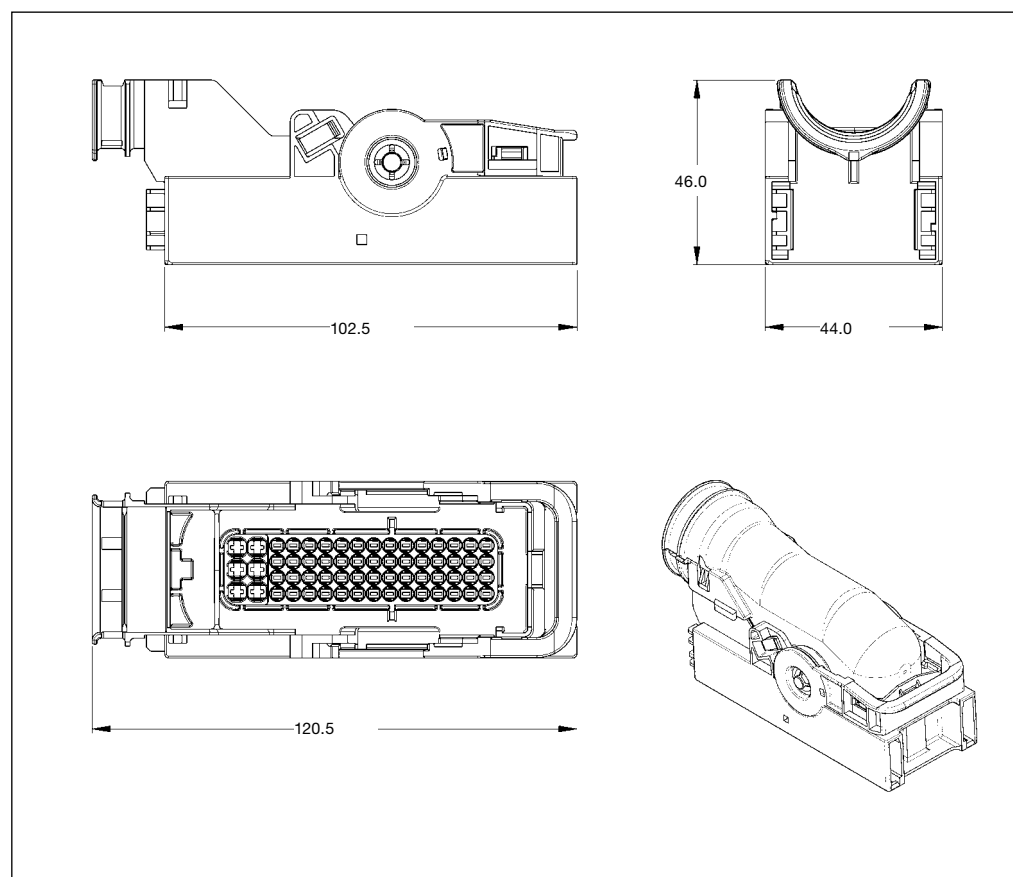
AWG 12 TXL Max.

Product Specification:

108-18946

Application Specification:

114-18660


Sealed Mixed Receptacle Housings

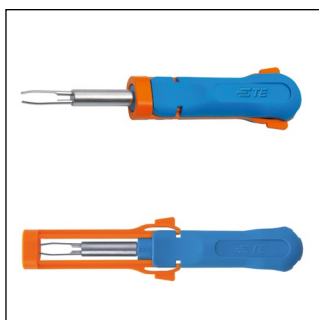
No. of Positions	Keying Options	Housing Color	Part Numbers				
			Receptacle Housing	Cover	Mating Tab Housing*	Mating PCB Header* Straight	Mating PCB Header* 90° Angled
62	A	Black	1-1823498-1	1823500-1	1-1718324-1*	1-1418362-1*	1-1418362-3*
	B	Gray	2-1823498-1		2-1718324-1*	2-1418362-1*	2-1418362-3*
	C	Blue	3-1823498-1		3-1718324-1*	**	**
	D	Green	4-1823498-1		**	**	**

*) On request UL94 V-0 rated

**) On request

Extraction Tool:

Part No. 1579007-1*


Extraction Tool:

Part No. 1-1579007-1*



*dependent on the contact

Sealed 1.5mm/2.8mm Tab Housings

Technical Features

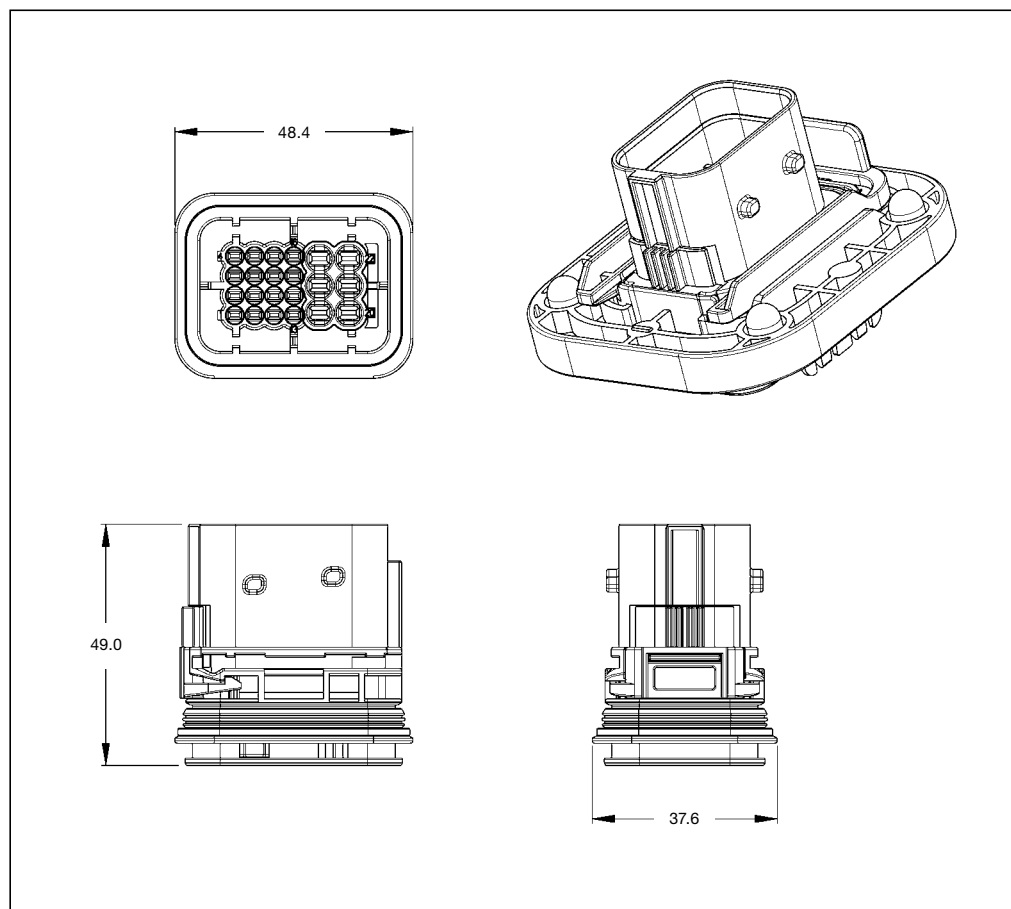
No. of Positions:
22 Positions

Housing Material:
PBT-GF30

Wire Size Range:
1.5 mm² FLR Max.
2.5 mm² FLR Max.
AWG 12 TXL Max.

Product Specification:
108-94204

Application Specification:
114-18993

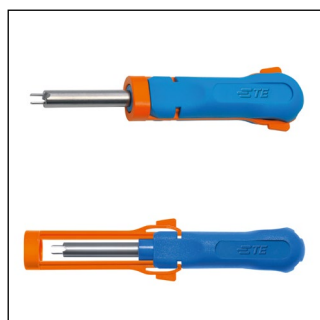


Sealed Mixed Tab Housings

No. of Positions	Keying Options	Housing Color	Part Numbers				
			Tab Housing	Cover	Adapter	Locking Slide	Mating Receptacle Housing
22	A	Black	1-1823449-1	**)	1703806-1	1703804-1	1-1823440-3
	B	Gray	**)				2-1823440-3
	C	Blue	**)				3-1823440-3
	D	Green	**)				4-1823440-3

**) On request

Extraction Tool:
Part No. 1-1579007-1*



Extraction Tool:
Part No. 1-1579007-6*



*dependent on the contact

Sealed 2.8mm Tab Housings

Technical Features

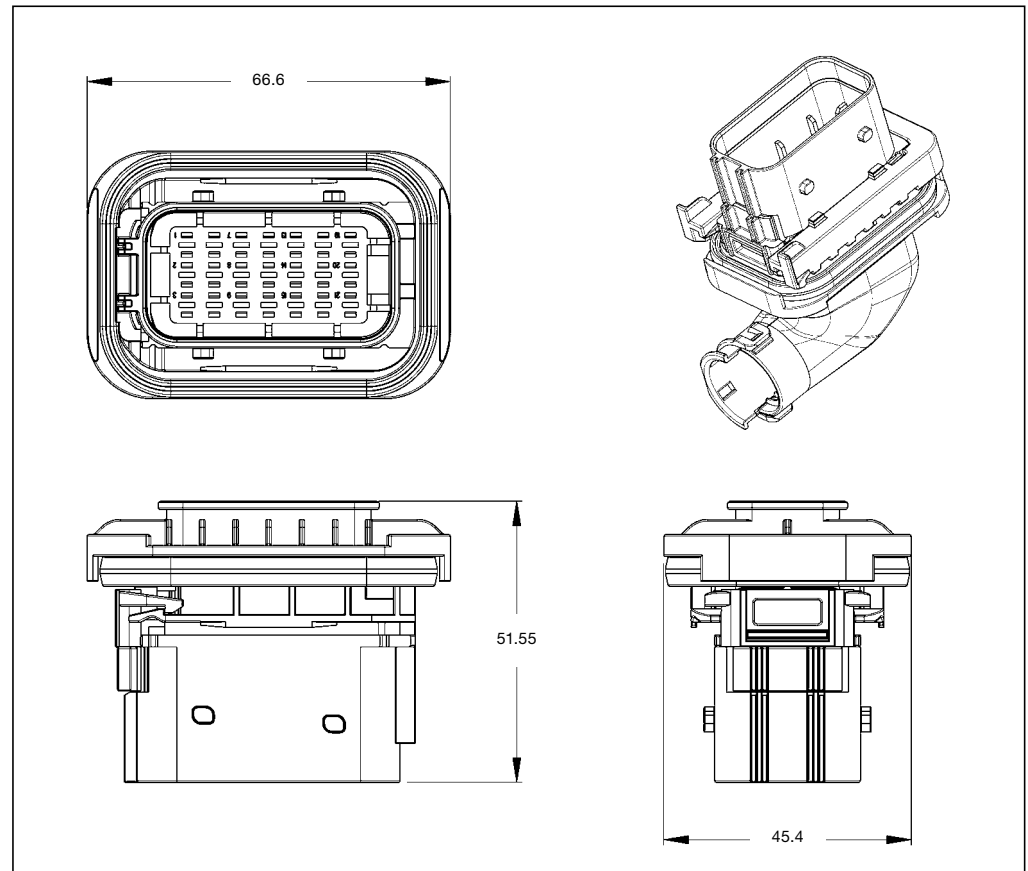
No. of Positions:
21 Positions

Housing Material:
PBT-GF30

Wire Size Range:
2.5mm² FLR Max.
AWG 12 TXL Max.

Product Specification:
108-18696

Application Specification:
114-18376



Sealed Tab Housings

No. of Positions	Keying Options	Housing Color	Part Numbers				
			Tab Housing with Flange	Cover	Interface Protection Cover	Locking Slide	Mating Receptacle Housing
21	A	Black	1-2112162	2112167-1	1-1394052-1*	2112166-1 (2.5mm)	1-2208686-1
						2112166-2 (3mm)	
						2112166-3 (3.5mm)	

*) On request UL94 V-0 rated

Extraction Tool:
Part No. 1-1579007-6*



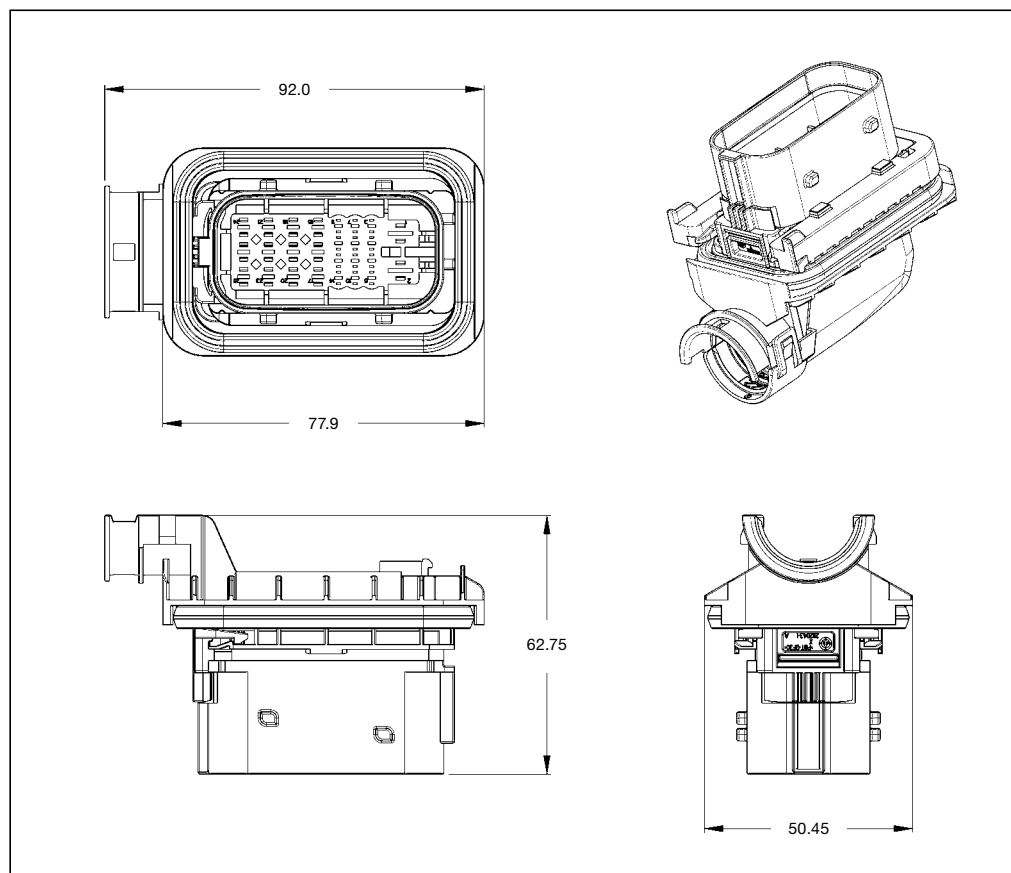
Sealed 1.5mm/2.8mm/6.3mm Tab Housings

Technical Features
No. of Positions:
26 Positions

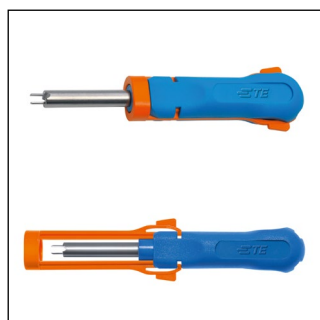
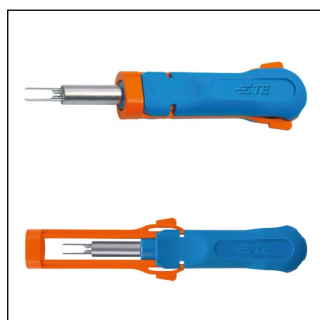
Housing Material:
PBT-GF30

Wire Size Range:
12x 1.5mm² FLR Max.
12x 2.5mm² FLR Max.
AWG 12 TXL Max.
4x 6.0mm² FLR Max.

Product Specification:
108-94214

Application Specification:
114-94010

Sealed Mixed Tab Housings

No. of Positions	Keying Options	Housing Color	Part Numbers			
			Tab Housing with Flange	Cover	Locking Slide	Mating Receptacle Housing
26	A	Black	1-2112041-1 1-2112041-2	2112046-1	2112045-1 (2.5mm)	1-2112035-1
					2112045-2 (3mm)	

Extraction Tool:
Part No. 1-1579007-1*

Extraction Tool:
Part No. 1-1579007-3*

Extraction Tool:
Part No. 1-1579007-6*


*dependent on the contact

Sealed 1.5mm/2.8mm Tab Housings and Adapters

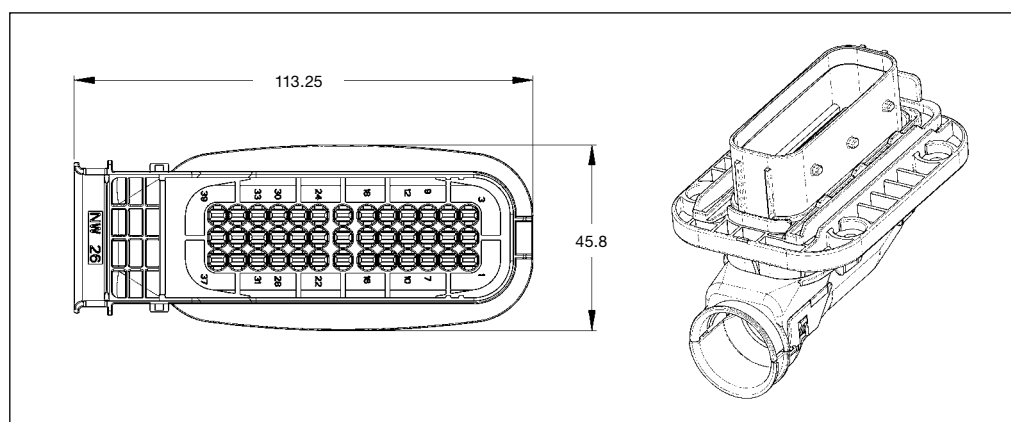
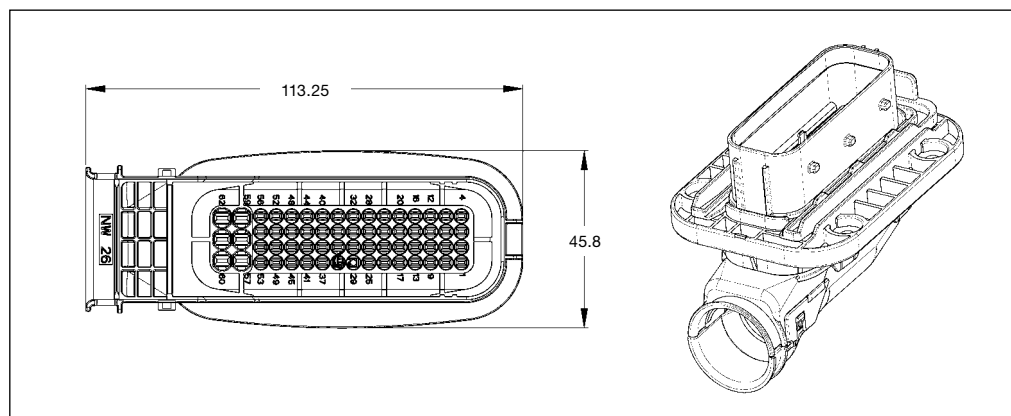
Technical Features

No. of Positions:
62 Positions

Housing Material:
PBT-GF20 (HB)

Wire Size Range:
1.5mm² FLR Max.
2.5mm² FLR Max.
AWG 12 TXL Max.

Product Specification:
108-18946

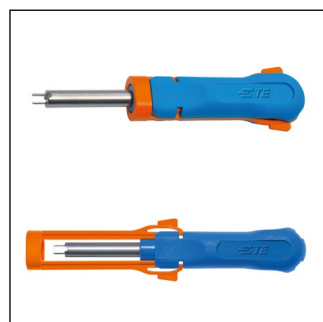
Application Specification:
114-18660


Sealed Tab Housings

No. of Positions	Keying Options	Housing Color	Part Numbers				
			Tab Housing	Cover	Adapter	Locking Slide	Mating Receptacle Housing
62**	A	Black	1-1718324-1**	1823500-1	1718329-1* (1bay)**	1718328-1**	1-1823498-1
	B	Gray	2-1718324-1**		2236721-1 (1bay)**		2-1823498-1
	C	Blue	3-1718324-1**		1813123-1 (2bay)**		3-1823498-1
	D	Green	(on request)		1813123-2 (2bay)**		4-1823498-1
39**	—	—	—	1823500-1	2098891-2 (4bay)**	1718328-1**	—
	—	—	—		1718329-1* (1bay)**		—
	—	—	—		2236721-1 (1bay)**		—
	—	—	—		1813123-1 (2bay)**		—
	E	Emerald Green	5-1718323-1**		1813123-2 (2bay)**		5-2208684-3
	F	Fawn Brown	6-1718323-1**		2098891-2 (4bay)**		6-2208684-3

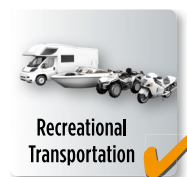
*) Unsealed **) On request in UL V-0 rated

Extraction Tool:
Part No. 1-1579007-1*

Extraction Tool:
Part No. 1-1579007-6*


*)dependent on the contact

Application Tooling



The TE Application Tooling group is dedicated to providing high quality equipment options to meet all levels of your connector product specifications.

We supply a complete product range from simple hand tools over wire preparation machines to the most complex automated systems including crimp quality monitoring and automated testing equipment enabling customers to process TE Connectivity as well as other manufacturer's products.

A global network of highly-qualified field service engineers keeps your production running. Their professional knowledge helps you with your requirements and other technical questions or problems.

Equipment is segregated into two categories:
Generic Equipment
We supply you with sufficient information referenced by Part Number allowing you to identify and order what you need yourself.

Specialized Equipment

Our specialists identify the proper tooling options for your application.

Finding Equipment Online

Powerful search functions are available to identify appropriate tooling:

- Applicators — www.tooling.te.com/europe/applicator.asp
- Hand Tools — www.tooling.te.com/europe/handtools.asp

Application Tooling

OCEAN Applicator Series

TE Application Tooling has created the OCEAN applicator series to meet higher demands and to take terminal crimping to a new level.

By consolidating our applicator offering, TE can provide design consistency and tooling standardization to the market. One of the resulting benefits to customers of this consolidation is flexibility in the choice of feeding options: new and improved mechanical and pneumatic feeds along with the innovative and precise servo feed option.

The OCEAN applicator series design also allows customers to perform field upgrades to system III technology. It provides an upgrade path for terminal intelligence that allows the machine to obtain set-up features as the applicator is upgraded.

One applicator platform –
modular family design

- Two ram interface styles
- Three interchangeable feed options:
 - Mechanical
 - Pneumatic
 - Servo

**Applicator Replacable Parts Stocking Program**

To ensure the support of our installed applicator base, we have established a stocking program for replaceable parts. Subsequently, all crimpers and anvils for your applicator are normally available in stock, ensuring the shortest possible lead times.



Application Tooling

AMP 3/K-30 and AMP 5/K-40 Terminators*

*This information applies to the CE version only.

These terminators are powerful, economically-priced machines that deliver the increased output and quality of a semi-automatic machine, while meeting specific production applications.

Standard features such as tool-less precision, crimp height adjust, CQM capability, batch counter and a work light are integral parts of serial equipment.

By offering options the AMP 3/K-40 and AMP 5/K-40 terminator can be tailored to the specific application requirements without inflating the price for unwanted features.

When used on TE terminators the optional available CQM II (Crimp Quality Monitor) provides a complete crimp detection analysis.



Gamma 333 PC / 333 PC-B Lead Maker

The Gamma 333 PC lead maker is a flexible fully automatic crimping machine for efficient wire processing. It processes cross sections in a range from 0.13–5.0 mm² (AWG 26–AWG 10).

Short conversion times, additional applications and a user-friendly user interface with multiple-language capability. The Gamma 333 PC and Gamma 333 PC-B lead makers (B-version with belt drive) makes it all possible! With its third processing station and state of the art control software, you are provided high flexibility and an even more efficient way of meeting your wire processing needs.

With an additional processing station on side 1, the Gamma 333 PC lead maker enables you to crimp both ends of the wire, to create double crimp connections with three different contacts, to carry out one-ended seal application, tinning or ink-jet marking.

In addition, process monitoring is all integrated to ensure that the wire is cut to length and stripped perfectly.



Application Tooling

Alpha 355 S Fully Automatic Crimping Machine

The Alpha 355 S fully automatic crimping machine is a proven performer and now available in a model that offers the flexible selection of modules. The high safety cover and the flat table design is the most striking difference between this version and the Alpha 355 lead maker. It allows processing modules not specifically designed for certain machines to be mounted. One of the two module slots on each processing side is fitted with special mounting tables to accommodate the various mounting methods.

Combined with the ingenious open-ended software interface, the flexibility of the Alpha 355 S lead maker can be increased.

Short setup and changeover times, integrated quality measurements, and top performance are the three main features of this machine.



Hand Tools

A selection of commercial or premium manual hand tools suitable for R & D, prototyping, field work or low volume production, these hand tools combine ease of use with reliability and precision.

Insertion and extraction tools are used for inserting discrete terminals into connector housings or removing them, without causing damage to either the terminals or housings.

Our new standard design features a comfortable handle and snap-in/out protective cover that allows users to stow the business end of the tool to help protect from inadvertent personal injury when the tools are not in use.



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a TE Connectivity Ltd. company
AMPèrestrasse 12-14
D - 64625 Bensheim
Germany

Global Contacts

Americas

Argentina – Buenos Aires
(Chile, Colombia,
Ecuador, Venezuela)Phone: +54-11-4733-2202
Fax: +54-11-4733-2250**Brasil** – São PauloPhone: +55-11-2103-6105
Fax: +55-11-2103-6204**Canada** – TorontoPhone: +1-905-475-6222
Fax: +1-905-474-5520
Product Information Center:
Phone: +1-905-470-4425
Fax: +1-905-474-5525**Mexico** – Mexico CityPhone: +52-55-1106-0800
+01-800-733-8926
Fax: +52-55-1106-0910**United States**Harrisburg, PA
Phone: +1-717-564-0100
Fax: +1-717-986-7575
Product Information Center:
Phone: +1-800-522-6752
Fax: +1-717-986-7575

Hemet, CA

Customer Service Team
Phone: +1-951-765-2250
Fax: +1-951-765-2255

Kettering, OH

LADD Distribution
Phone: +1-800-223-1236
Fax: +1-937-438-9755**For South American
Countries not shown**Phone: +54-11-4733-2015
Fax: +54-11-4733-2083

Asia/Pacific

Australia – SydneyPhone: +61-2-9554-2600
Fax: +61-2-9502-2556
Product Information Center:
Phone: +61-2-9840-8200
Fax: +61-2-9634-6188**Indonesia** – JakartaPhone: +62-21-2929-3800
Fax: +62-21-2929-3899**Japan** – Kawasaki, KanagawaPhone: +81-44-844-8111
Fax: +81-44-812-3207**Korea** – SeoulPhone: +82-2-3415-4500
Fax: +82-2-3486-3810**Malaysia** – Kuala LumpurPhone: +60-3-7806-7688
Fax: +60-3-7805-3066**New Zealand** – AucklandPhone: +64-9-634-4580
Fax: +64-9-634-4586**Philippines** – Makati CityPhone: +632-988-9400
Fax: +632-659-7737**People's Republic of China**Hong Kong
Phone: +852-2738-8731
Fax: +852-2735-0243

Shanghai

Phone: +86-21-3398-0000
Fax: +86-21-3398-1999

LADD Distribution

Phone: +86-21-6608-2211

Singapore – SingaporePhone: +65-6482-0311
Fax: +65-6482-1012**Taiwan** – TaipeiPhone: +886-2-8768-2788
Fax: +886-2-8768-2268

Taichung

Phone: +886-4-2258-5615

Thailand – BangkokPhone: +66-2-834-6200
Fax: +66-2-937-1820**Vietnam** – Ho Chi Minh CityPhone: +84-8-3823-8473
Fax: +84-8-3823-8533

Europe/Middle East/Africa

Austria – ViennaPhone: +43-1-905-60-0
Fax: +43-1-905-60-1333
Product Information Center:
Phone: +43-1-905-60-1228
Fax: +43-1-905-60-1333**Belarus** – MinskPhone: +375-17-237-47-94
Fax: +375-17-237-47-94
Product Information Center:
Phone: +7-495-790-7902
Fax: +7-495-721-1893**Bulgaria** – SofiaPhone: +359-2-971-2152
Fax: +359-2-971-2153**Czech Republic and Slovakia****Czech Republic** – Kurim, Brno
Phone: +420-541-162-108
Fax: +420-541-162-104
Product Information Center:
Phone: +420-541-162-113
Fax: +420-541-162-104**Denmark** – GlostrupPhone: +45-43-48-04-00
Fax: +46-8-50-72-50-01
Product Information Center:
Phone: +46-8-50-72-50-00**Egypt** – CairoPhone: +20-2-24192334
Fax: +20-2-24177647**Estonia** – TartuPhone: +372-5138-274
Fax: +372-7400-779**Finland** – HelsinkiPhone: +358-95-12-34-20
Fax: +46-8-50-72-50-01
Product Information Center:
Phone: +46-8-50-72-50-00**France** – Cergy-Pontoise CedexPhone: +33-1-3420-8888
Fax: +33-1-3420-8800
Product Information Center:
Phone: +33-1-3420-8686
Fax: +33-1-3420-8624**France Export Divisions** –Cergy-Pontoise Cedex
Phone: +33-1-3420-8866
Fax: +33-1-3420-8300**Germany** – Bensheim
(Switzerland)Phone: +49-6251-133-0
Fax: +49-6251-133-1600
Product Information Center:
Phone: +49-6251-133-1999
Fax: +49-6251-133-1988

Martinsried

LADD Distribution
Phone: +49-89-899157-0LADD Distribution EMEA
Phone: +49-89-899157-0**Hungary** – BudapestPhone: +36-1-289-1000
Fax: +36-1-289-1010
Product Information Center:
Phone: +36-809-874-04
(toll free)**India** – BangalorePhone: +91-080-2854-0800
Fax: +91-080-2854-0820/21

DEUTSCH India Power

Connectors Pvt. Ltd.
Phone: +91-80-404-66-500**Israel** – Ashkelon

Phone: +972-8-671-9020

Italy – Collegno (Torino)Phone: +39-011-4012-111
Fax: +39-011-4031-116
Product Information Center:
Phone: +39-011-4012-632
Fax: +39-011-4028-7632

Milano

Phone: +39-02-3932-2240

Lithuania and LatviaLithuania – Vilnius
Phone: +370-5-213-1402
Fax: +370-5-213-1403**Morocco** – TangierPhone: +212-5-31-06-2700
Fax: +212-5-31-06-2728**Netherlands** – 's-Hertogenbosch
(Belgium, Luxemburg)Phone: +31-73-6246-246
Fax: +31-73-6212-365
Product Information Center:
Phone: +31-73-6246-999
Fax: +31-73-6246-998**Norway** – NesbruPhone: +47-66-77-88-50
Fax: +46-8-50-72-50-01
Product Information Center:
Phone: +46-8-50-72-50-00**Poland** – WarsawPhone: +48-22-4576-700
Fax: +48-22-4576-720**Romania** – BucharestPhone: +40-21-311-3479/3596
Fax: +40-21-312-0574**Russia** – MoscowPhone: +7-495-790-7902
Fax: +7-495-721-1893
Product Information Center:
Phone: +7-495-790-7902
Fax: +7-495-721-1893

Nizhniy Novgorod

Phone: +7-831-220-33-05/-06
Fax: +7-831-220-33-39/-40**Slovenia** – LjubljanaPhone: +386-1561-3270
Fax: +386-1561-3240**South Africa** – Port ElizabethPhone: +27-41-503-4500
Fax: +27-41-581-0440**Spain** – BarcelonaPhone: +34-93-291-0300
Fax: +34-93-564-4819
Product Information Center:
Phone: +34-93-291-0366
Fax: +34-93-209-1030**Sweden** – Upplands VäsbyPhone: +46-8-50-72-50-00
Fax: +46-8-50-72-50-01
Product Information Center:
Phone: +46-8-50-72-50-00**Turkey** – IstanbulPhone: +90-212-339-9200
Fax: +90-212-339-9202**Ukraine** – KievPhone: +380-44-206-2265
Fax: +380-44-206-2264
Product Information Center:
Phone: +380-44-206-2265
Fax: +380-44-206-2264**United Kingdom and****Ireland** – SwindonPhone: +44-8706-080208
Fax: +44-208-954-6234
Product Information Center:
Phone: +44-800-267-666



Tyco Electronics AMP GmbH
a TE Connectivity Ltd. company

AMPèrestrasse 12-14
64625 Bensheim | Germany
Phone: +49 (0)6251 133-0
Fax: +49 (0)6251 133-1600

www.te.com

Tyco Electronics AMP GmbH certified
acc. ISO 14001 and ISO/TS 16949:2002

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