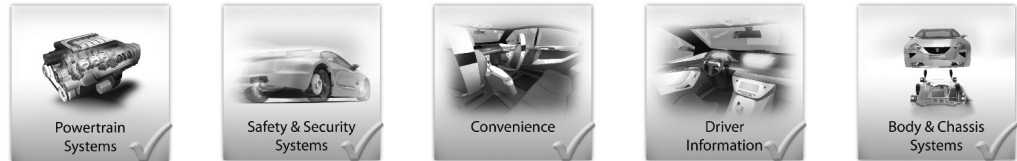
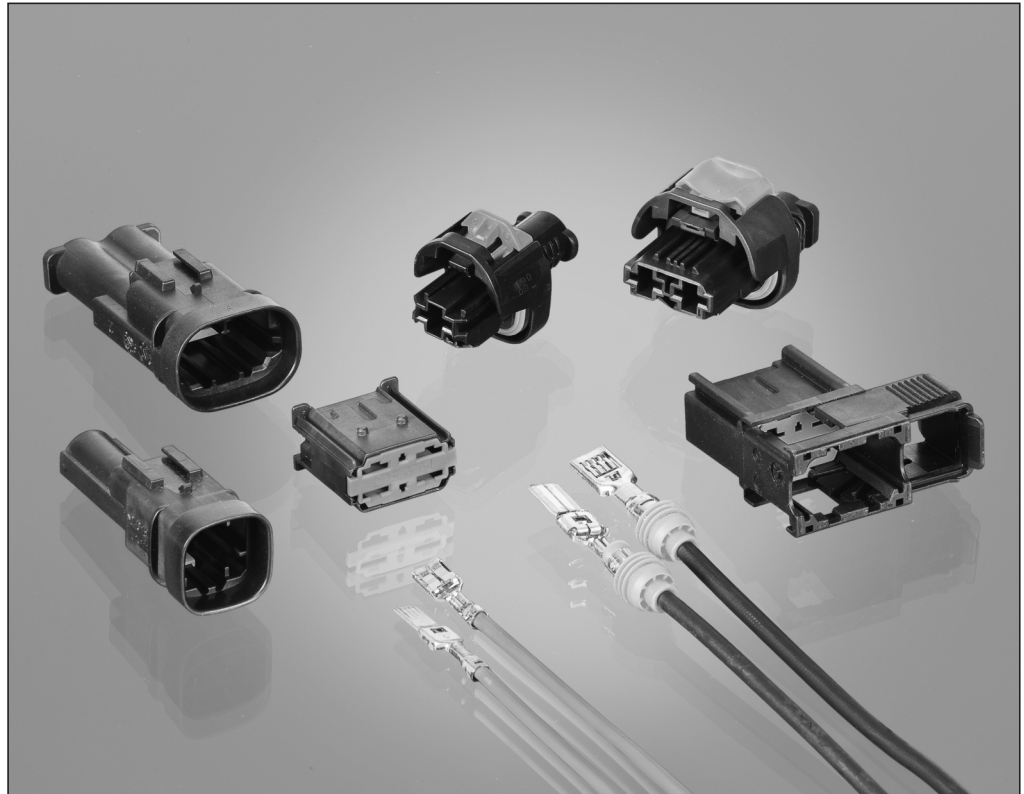


Introduction



**New Generation
Power Terminals and
Connectors for
Power Applications**



TE Connectivity designed a new generation of single piece contact – NG1 & NG1+ dedicated to power applications such as:

- Electrical steering pump
- Engine cooling fan
- Engine fuses box

Crimping Characteristics:
2.5–10 mm²

Housings:
Sealed and Unsealed Versions

- 1 or 2 positions (8 mm)
- 3 to 5 positions (6.35 mm)

TE Connectivity designed the 2.8 NGP single piece contact dedicated to power applications such as:

- Engine fuses box
- Protection and switching box

Crimping Characteristics:
2.5–6.0 mm²

Housings:
Sealed Versions

- Hybrid 1.5 and 2.8 mm, 6 positions

NG1 Receptacles

Applications

- Sealed power connectors
- Engine harness
- Cockpit harness
- Fuse box

Technical Features

- High current capacity
- Compatible with single wire sealing
- Reversible in housing cavity

Contact Resistance:

<2 mΩ

Current Capacity for 40 °C Rise in T° for Micro Alloy Copper Receptacle:

3.0 mm² = 30 A

6.0 mm² = 41 A

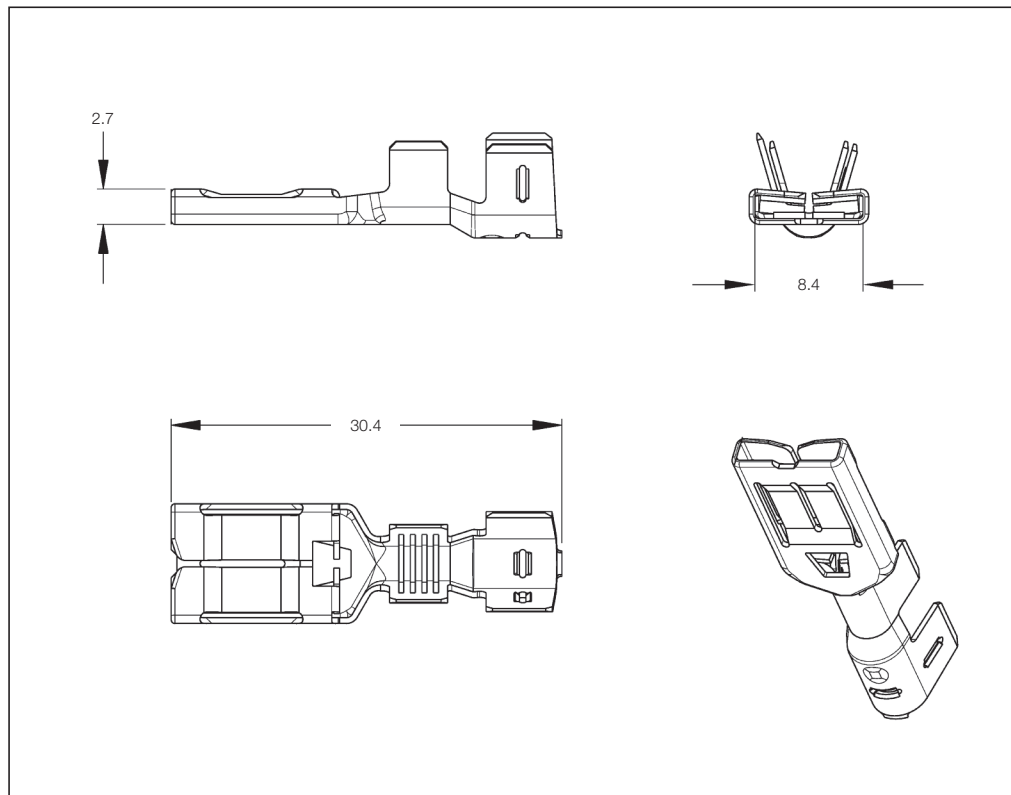
10.0 mm² = 55 A

Insertion Force:

<20 N

Withdrawal Force:

<20 N



NG1 Receptacle Contacts

Wire Size Range mm ² (AWG)	Insulation Diameter		Material and Finish	Part Numbers				Applicator	Hand Tool with Die Set
	FLK mm (Inch)	FLR mm (Inch)		Strip Form	Package Quantity	Loose-Piece	Package Quantity		
3.0–6.0 (12–10)	3.2–4.4 (.126–.173)	–	Micro Alloy Copper, Sn	1544107-1*	3,900	–	–	on request	–
				1544227-1	3,900				
7.0–10.0 (9–7)	4.9–6.0 (.193–.237)	–	Micro Alloy Copper, Sn	1544106-1*	2,700	–	–	on request	–
				1544228-1	2,700				

Note:

For Mating Standard Tab Dimension = 8 x 1.0 mm

*) Tab Dimension = 8 x 0.8 mm

NG1 Tabs

Applications

- Sealed power connectors
- Engine harness
- Cockpit harness
- Fuse box

Technical Features

- High current capacity
- Compatible with single wire sealing
- Reversible in housing cavity

Contact Resistance:

<2 mΩ

Current Capacity for 40 °C Rise in T° for Micro Alloy Copper Receptacle:

3.0 mm² = 30 A

6.0 mm² = 41 A

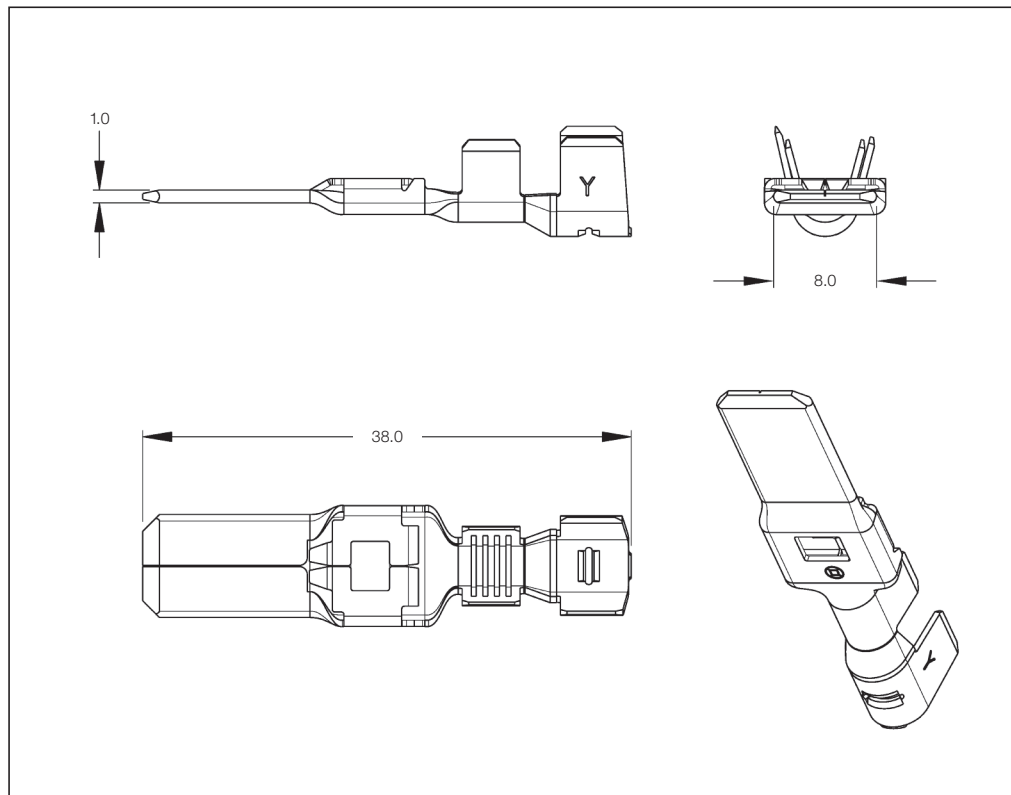
10.0 mm² = 55 A

Insertion Force:

<20 N

Withdrawal Force:

<20 N



NG1 Tab Contacts

Wire Size Range mm ² (AWG)	Insulation Diameter		Material and Finish	Part Numbers				Applicator	Hand Tool with Die Set
	FLK mm (Inch)	FLR mm (Inch)		Strip Form	Package Quantity	Loose-Piece	Package Quantity		
3.0–6.0 (12–10)	–	3.35–4.1 (.132–.161)	Brass/Sn	1544332-1	2,200	–	–	on request	–
7.0–10.0 (9–7)	–	4.9–5.9 (.193–.232)	Brass/Sn	1544333-1	1,700	–	–	on request	–

NG1 Seals

Wire Size Range mm ² (AWG)	Insulation Diameter		Material and Finish	Part Numbers				Applicator	Hand Tool with Die Set
	FLK mm (Inch)	FLR mm (Inch)		Strip Form	Package Quantity	Loose-Piece	Package Quantity		
3.0–6.0 (12–10)	–	–	Silicon, Green	1544316-1	18,000	–	–	on request	–
7.0–10.0 (9–7)	–	–	Silicon, Orange	1544316-2	18,000	–	–	on request	–

NG1 Cavity Plugs

Wire Size Range mm ² (AWG)	Insulation Diameter		Material and Finish	Part Numbers				Applicator	Hand Tool with Die Set
	FLK mm (Inch)	FLR mm (Inch)		Strip Form	Package Quantity	Loose-Piece	Package Quantity		
–	–	–	Silicon, White	1544316-3	18,000	–	–	on request	–

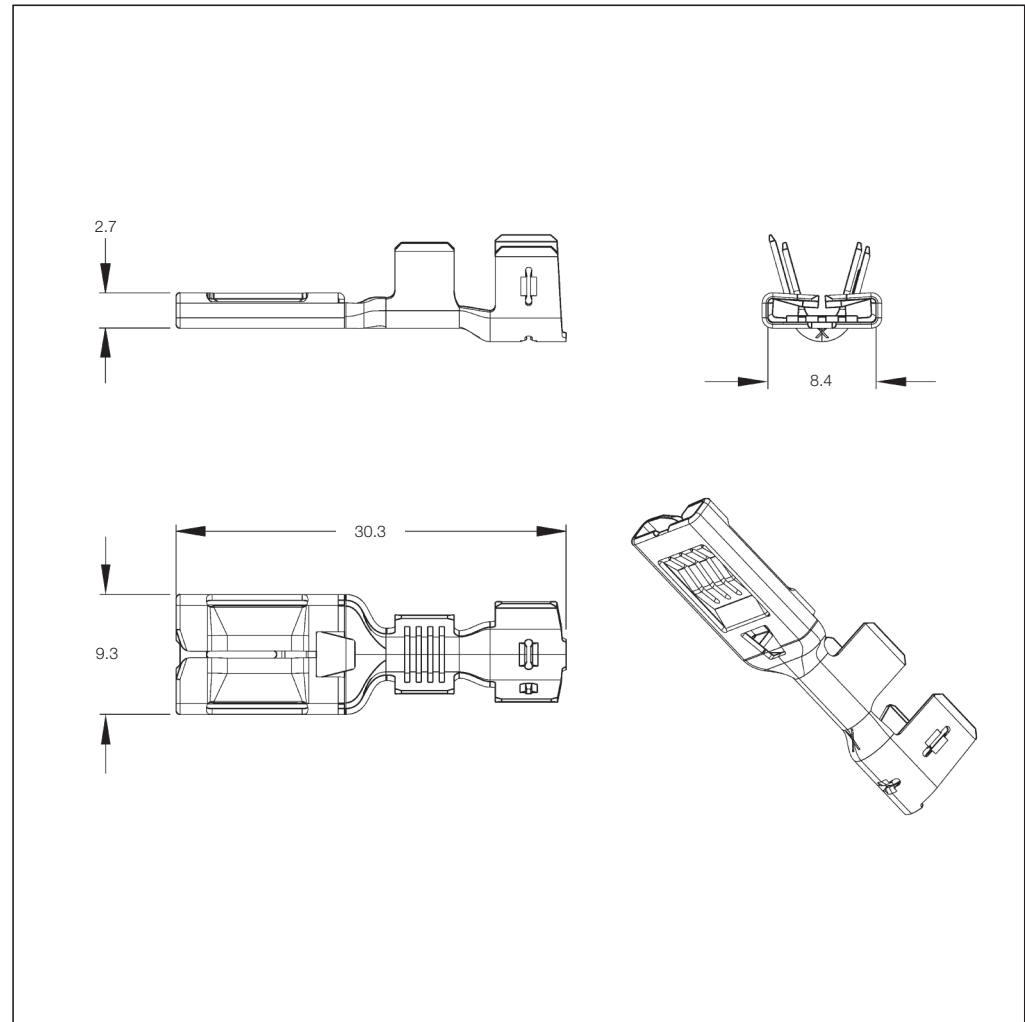
NG1Plus Receptacles and Seals

Applications

- Cockpit harness
- Engine harness
- Fuse box and relay holder
- Sealed power connector

Technical Features

- Low insertion force
- Reversible at 180° in the housing cavity
- Initial contact resistance <2 mΩ
- Temperature maximum admissible 150 °C for SnAg or Ag plated
- **Current Capacity for 40 °C Rise in T°:**
 - 2.5 mm² = 40 A
 - 4.0 mm² = 43 A
 - 5.0 mm² = 48 A
 - 6.0 mm² = 53 A
 - 7.0 mm² = 58 A
 - 10.0 mm² = 68 A
- **Vibration Class:**
 - 3 g for Sn plated and
 - 10 g for SnAg plated
- **Crimping Wire Range:**
 - 2.5 mm² to 10 mm²
 - (sealed and unsealed)
- **Insertion Force**
Receptacle Terminal and Tab:
<20 N
- **Withdrawal Force/Tab:**
<20 N



NG1Plus Receptacles and Seals (continued)

NG1Plus Receptacles

Wire Size Range	Insulation Diameter		Material and Finish	Part Numbers					
	FLK	FLR		Strip Form	Package Quantity	Loose-Piece	Package Quantity	Applicator with Seal, without Seal	Hand Tool with Die Set
mm ² (AWG)	mm (Inch)	mm (Inch)							
2.5–4.0 (14–12)	–	2.65–3.90 (.104–.154)	Micro Alloy Copper, SnAg	1544964-1	3,900	–	–	1852594-x	–
			Micro Alloy Copper, Ag	1544964-2	3,900	–	–	1852594-x	–
			Micro Alloy Copper, SnAg	1801431-1*	3,900	–	–	1852579-x	–
5.0–6.0 (11–10)	–	3.7–4.5 (.146–.177)	Micro Alloy Copper, SnAg	1544965-1	3,900	–	–	1852595-x	–
			Micro Alloy Copper, Ag	1544965-2	3,900	–	–	1852595-x	–
			Micro Alloy Copper, SnAg	1801432-1*	3,900	–	–	1852578-x	–
7.0–10.0 (9–7)	–	4.3–6.0 (.169–.236)	Micro Alloy Copper, SnAg	1544966-1	2,700	–	–	1852596-x	–
			Micro Alloy Copper, Ag	1544966-2	2,700	–	–	1852596-x	–
			Micro Alloy Copper, SnAg	1801433-1*	2,700	–	–	1852580-x	–

NG9K Seals

Wire Size Range	Insulation Diameter		Material and Finish	Part Numbers					
	FLK	FLR		Strip Form	Package Quantity	Loose-Piece	Package Quantity	Applicator with Seal, without Seal	Hand Tool with Die Set
mm ² (AWG)	mm (Inch)	mm (Inch)							
2.5–5.0 (14–11)	–	2.65–4.00 (.104–.157)	Silicone, Brown	–	–	1544970-1	8,000	–	–
6.0–7.0 (10–9)	–	4.1–5.0 (.161–.197)	Silicone, Blue	–	–	1544970-2	8,000	–	–
10.0 (7)	–	6.0 max. (.236 Max.)	Silicone, Yellow	–	–	1544970-3	8,000	–	–

NG1Plus Cavity Plug

Wire Size Range	Insulation Diameter		Material and Finish	Part Numbers					
	FLK	FLR		Strip Form	Package Quantity	Loose-Piece	Package Quantity	Applicator with Seal, without Seal	Hand Tool with Die Set
mm ² (AWG)	mm (Inch)	mm (Inch)							
–	–	–	Silicone, White	–	–	1544970-4	8,000	–	–

Note:

For all Part Numbers of Receptacles, Standard Tab Dimensions = 8 x 1.0 mm

*) Tab Dimensions = 8 x 0.8 mm

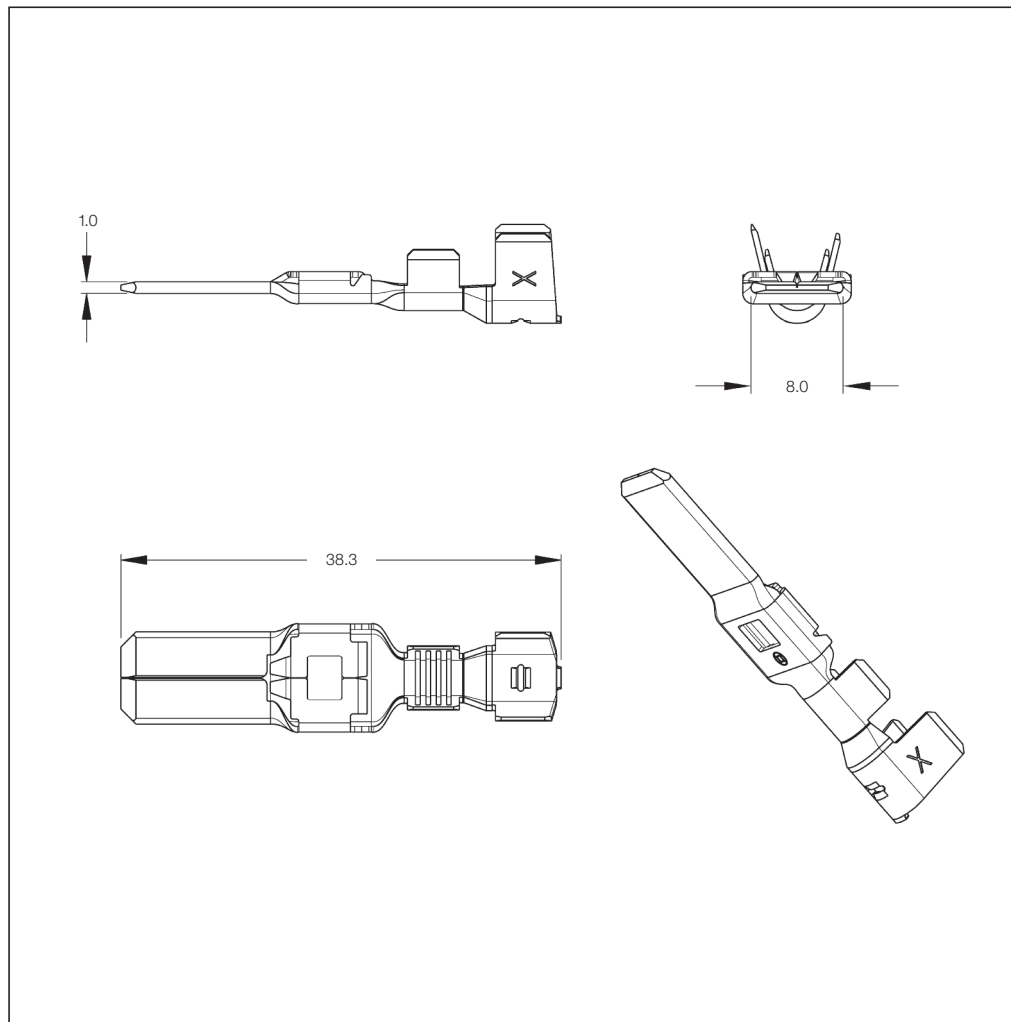
NG1Plus Tabs and Seals

Applications

- Cockpit harness
- Engine harness
- Fuse box and relay holder
- Sealed power connector

Technical Features

- Low insertion force
- Reversible at 180° in the housing cavity
- Initial contact resistance <2 mΩ
- Temperature maximum admissible 150 °C for SnAg or Ag plated
- **Current Capacity for 40 °C Rise in T°:**
 - 2.5 mm² = 40 A
 - 4.0 mm² = 43 A
 - 5.0 mm² = 48 A
 - 6.0 mm² = 53 A
 - 7.0 mm² = 58 A
 - 10.0 mm² = 68 A
- **Vibration Class:**
 - 3 g for Sn plated and
 - 10 g for SnAg plated
- **Crimping Wire Range:**
 - 2.5 mm² to 10 mm²
 - (sealed and unsealed)
- **Insertion Force**
Receptacle Terminal and Tab:
<20 N
- **Withdrawal Force/Tab:**
<20 N



NG1Plus Tabs

Wire Size Range	Insulation Diameter	FLK	FLR	Material and Finish	Part Numbers					Hand Tool with Die Set
					Strip Form	Package Quantity	Loose-Piece	Package Quantity	Applicator	
2.5–4.0 (14–12)	–	2.65–3.90 (.104–.154)		Micro Alloy Copper, SnAg	1544967-1	2,200	–	–	on request	–
				Micro Alloy Copper, Ag	1544967-2	2,200				
5.0–6.0 (11–10)	–	3.7–4.5 (.146–.177)		Micro Alloy Copper, SnAg	1544968-1	2,200	–	–	on request	–
				Micro Alloy Copper, Ag	1544968-2	2,200				
7.0–10.0 (9–7)	–	4.3–6.0 (.169–.236)		Micro Alloy Copper, SnAg	1544969-1	1,700	–	–	on request	–
				Micro Alloy Copper, Ag	1544969-2	1,700				

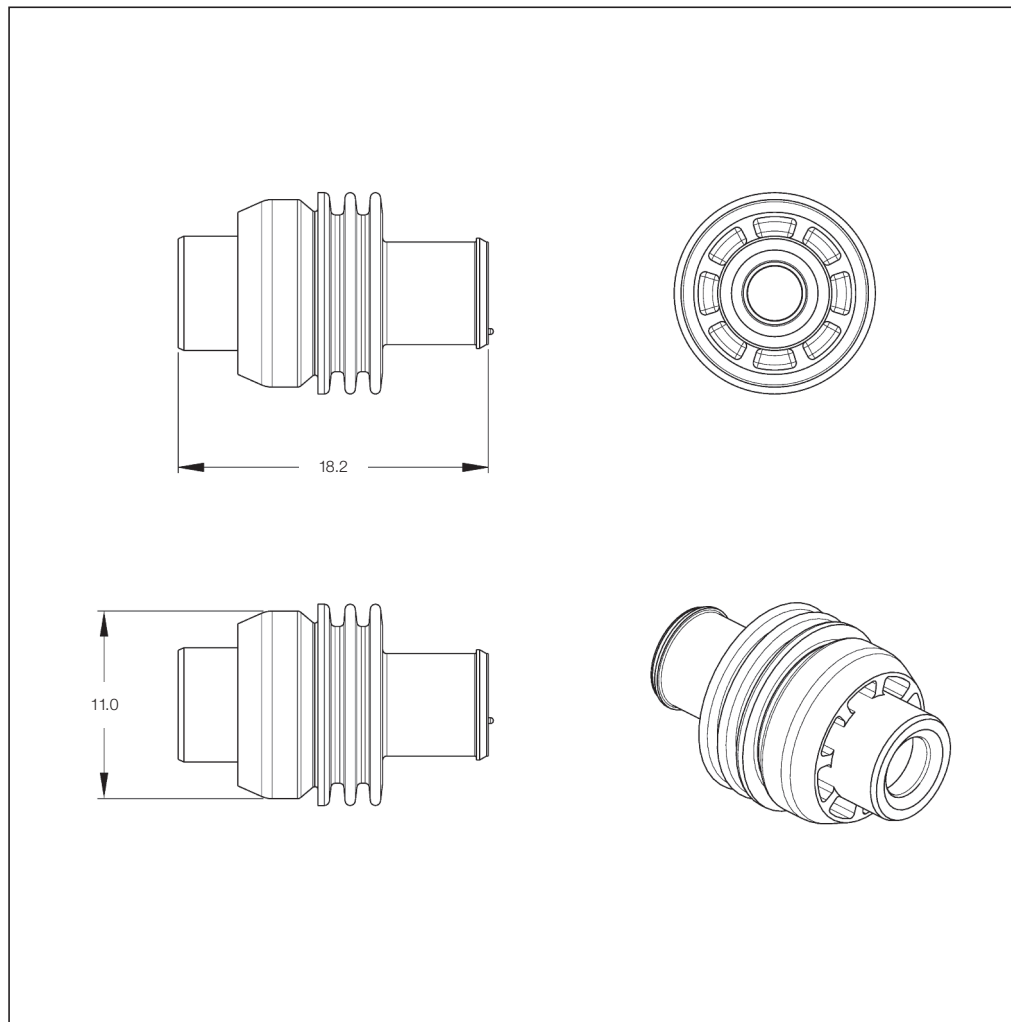
NG1Plus Tabs and Seals (continued)

Applications

- Cockpit harness
- Engine harness
- Fuse box and relay holder
- Sealed power connector

Technical Features

- Low insertion force
- Reversible at 180° in the housing cavity
- Initial contact resistance <2 mΩ
- Temperature maximum admissible 150 °C for SnAg or Ag plated
- **Current Capacity for 40 °C Rise in T°:**
 - 2.5 mm² = 40 A
 - 4.0 mm² = 43 A
 - 5.0 mm² = 48 A
 - 6.0 mm² = 53 A
 - 7.0 mm² = 58 A
 - 10.0 mm² = 68 A
- **Vibration Class:**
 - 3 g for Sn plated and
 - 10 g for SnAg plated
- **Crimping Wire Range:**
 - 2.5 mm² to 10 mm²
 - (sealed and unsealed)
- **Insertion Force**
Receptacle Terminal and Tab:
<20 N
- **Withdrawal Force/Tab:**
<20 N



NG9K Seals

Wire Size Range	Insulation Diameter FLK	Insulation Diameter FLR	Material and Finish	Part Numbers				Applicator	Hand Tool with Die Set
				Strip Form	Package Quantity	Loose-Piece	Package Quantity		
2.5–5.0 (14–11)	–	2.65–4.00 (.104–.157)	Silicone, Brown	–	–	1544970-1	8,000	–	–
6.0–7.0 (10–9)	–	4.1–5.0 (.161–.197)	Silicone, Blue	–	–	1544970-2	8,000	–	–
10.0 (7)	–	6.0 max. (.236 Max.)	Silicone, Yellow	–	–	1544970-3	8,000	–	–

NG1Plus Cavity Plug

Wire Size Range	Insulation Diameter FLK	Insulation Diameter FLR	Material and Finish	Part Numbers				Applicator	Hand Tool with Die Set
				Strip Form	Package Quantity	Loose-Piece	Package Quantity		
–	–	–	Silicone, White	–	–	1544970-4	8,000	–	–

NG1 Receptacles

Applications

- 3, 4 and 5 position connectors
- Cockpit harness

Technical Features

- Low insertion force
- Reversible in housing cavity

Contact Resistance:

<1 mΩ

Current Capacity

for 40 °C Rise in T°:

2.5 mm² = 31 A

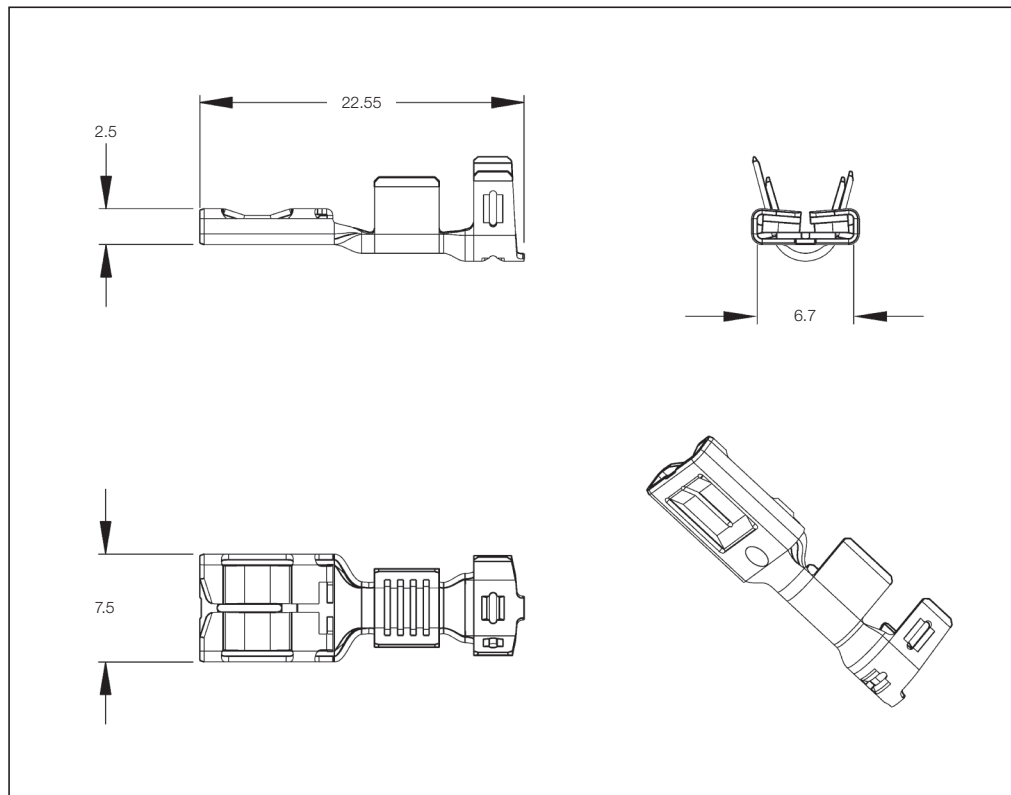
6.0 mm² = 46 A

Insertion Force:

<15 N

Withdrawal Force:

<15 N



NG1 Receptacle Contacts

Wire Size Range	Insulation Diameter		Material and Finish	Part Numbers				Applicator	Hand Tool with Die Set
	FLK	FLR		Strip Form	Package Quantity	Loose- Piece	Package Quantity		
mm ² (AWG)	mm (Inch)	mm (Inch)							
0.35–0.75 (22–19)	–	1.25–1.8 (.050–.071)	Brass, Sn	1544615-1	8,000	–	–	1528286-x	–
2.5–6.0 (14–10)	3.2–4.4 (.126–.173)	2.8–4.1 (.111–.161)	Micro Alloy Copper, Sn	1544133-1	5,100	–	–	1528379-x	–

NG1 Tabs

Applications

- 3, 4 and 5 position connectors
- Cockpit harness

Technical Features

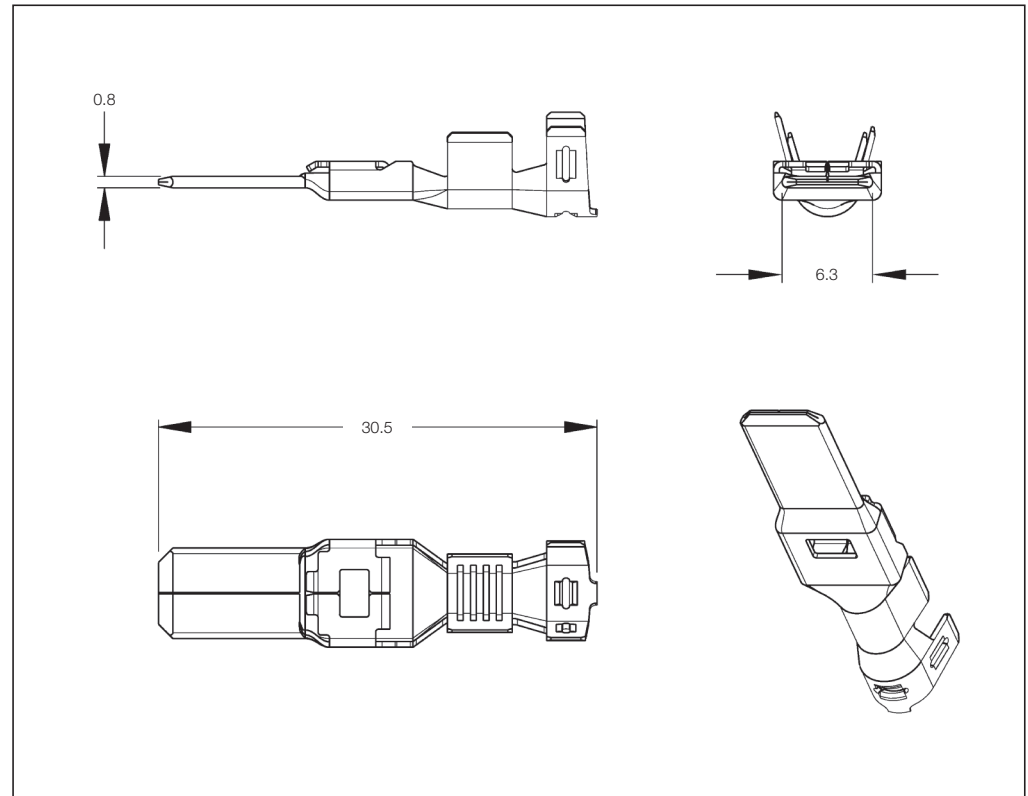
- Low insertion force
- Reversible in housing cavity

Contact Resistance:
<1 mΩ

**Current Capacity
for 40 °C Rise in T°:**
2.5 mm² = 31 A
6.0 mm² = 46 A

Insertion Force:
<15 N

Withdrawal Force:
<15 N



NG1 Tab Contacts

Wire Size Range	Insulation Diameter		Material and Finish	Part Numbers				Applicator	Hand Tool with Die Set
	FLK	FLR		Strip Form	Package Quantity	Loose- Piece	Package Quantity		
mm ² (AWG)	mm (Inch)	mm (Inch)							
2.5–6.0 (14–10)	3.2–4.4 (.126–.173)	2.8–4.1 (.111–.161)	Micro Alloy Copper, Sn	1544218-1	5,100	–	–	on request	–

Flag Terminal Receptacles

Applications

- 1 and 2 position connectors
- Car H1 and H7 lamps

Technical Features

- Low insertion force
- Low profile

Initial Contact Resistance:
<3 mΩ

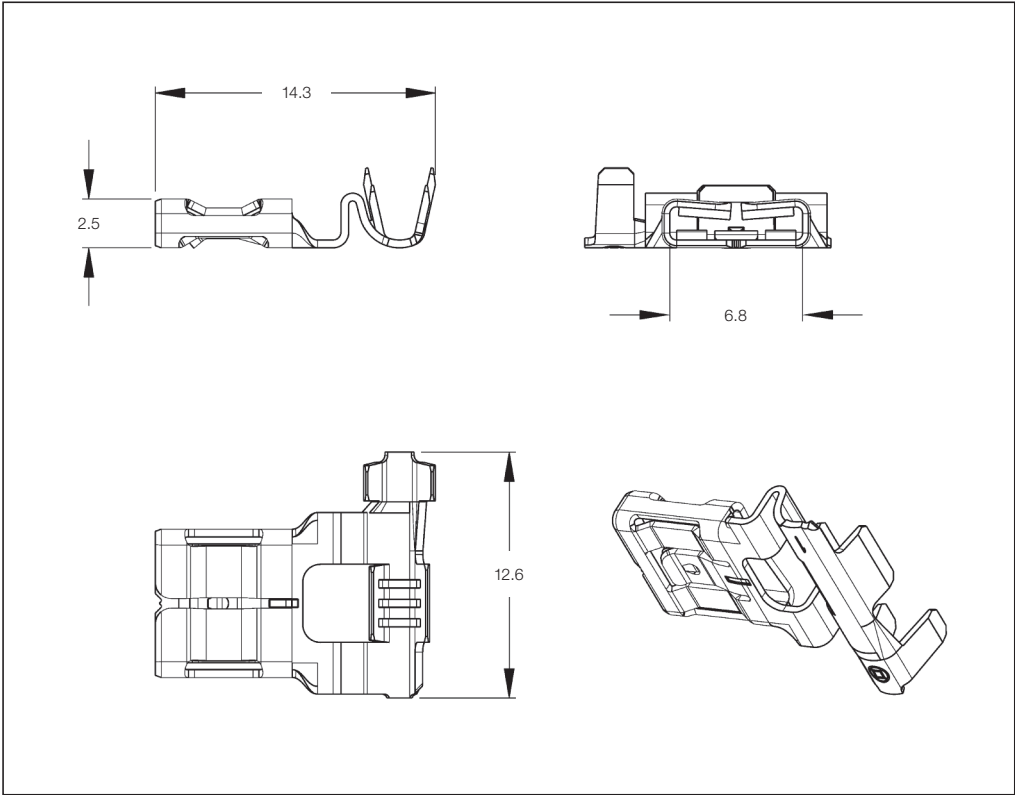
Raw Material:
German Silver

Current Capacity
for 40 °C Rise in T°:

1.0 mm² = 11 A
3.0 mm² = 14 A

Insertion Force:
<20 N

Withdrawal Force:
>27 N



Flag Terminal Receptacles

Wire Size Range	Insulation Diameter		Material and Finish	Part Numbers				Applicator	Hand Tool with Die Set
	FLK mm (Inch)	FLR mm (Inch)		Strip Form	Package Quantity	Loose- Piece	Package Quantity		
0.35–1.00 (22–17)	1.3–2.0 (.052–.079)	–	German Silver	1544113-4	8,000	–	–	on request	–
1.4–3.0 (16–12)	2.4–3.5 (.095–.138)	–	German Silver	1544114-4	6,000	–	–	on request	–

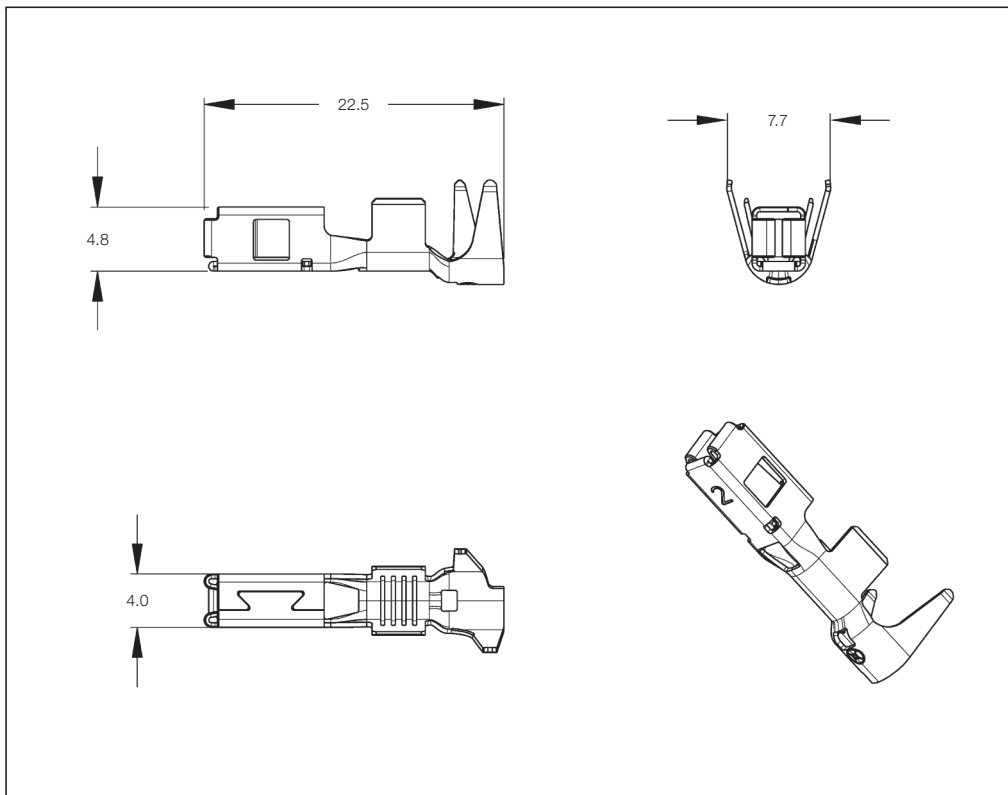
Receptacles

Applications

- Cockpit harness
- Engine harness
- Fuse and relay holder
- Sealed power connector

Technical Features

- Low insertion force
- Reversible at 180 °C in the housing cavity
- **Initial Contact Resistance:**
<2 mΩ
- **Current Capacity for 40 °C Rise in T°:**
6.0 mm² = 40 A
- **Max. Admissible Temperature:**
150 °C
- **Vibration Class:** 3 g
- **Crimping Wire Range:**
2.5–6.0 mm²
(sealed and unsealed)



2.8 NGP Receptacle Unsealed Applications

Wire Size Range	Insulation Diameter FLK	Insulation Diameter FLR	Material and Finish	Part Numbers					
				Strip Form	Package Quantity	Loose-Piece	Package Quantity	Applicator	Hand Tool with Die Set
2.5–6.0 (14–10)	–	2.8–4.2 (.111–.165)	Micro Copper Alloy, SnAg	1544555-1	6,000	–	–	on request	–

2.8 NGP Receptacle Sealed Applications

Wire Size Range	Insulation Diameter FLK	Insulation Diameter FLR	Material and Finish	Part Numbers					
				Strip Form	Package Quantity	Loose-Piece	Package Quantity	Applicator	Hand Tool with Die Set
2.5–4.0 (14–12)	–	2.8–3.5 (.111–.138)	Micro Copper Alloy, SnAg	1544555-1	6,000	–	–	on request	–
5.0–6.0 (11–10)	–	3.8–4.5 (.149–.177)	Micro Copper Alloy, SnAg	1544940-1	5,100	–	–	on request	–

Single Wire Seals

Wire Size Range	Insulation Diameter FLK	Insulation Diameter FLR	Material and Finish	Part Numbers					
				Strip Form	Package Quantity	Loose-Piece	Package Quantity	Applicator	Hand Tool with Die Set
2.5–4.0 (14–12)	–	2.65–3.9 (.104–.154)	Silicone	–	–	1544941-1	30,000	on request	–
2.5–4.0 (14–12)	–	2.8–3.5 (.111–.138)	Silicone	–	–	967608-1	30,000	on request	–
5.0–6.0 (11–10)	–	3.8–4.5 (.149–.177)	Silicone	–	–	1544941-2	30,000	on request	–

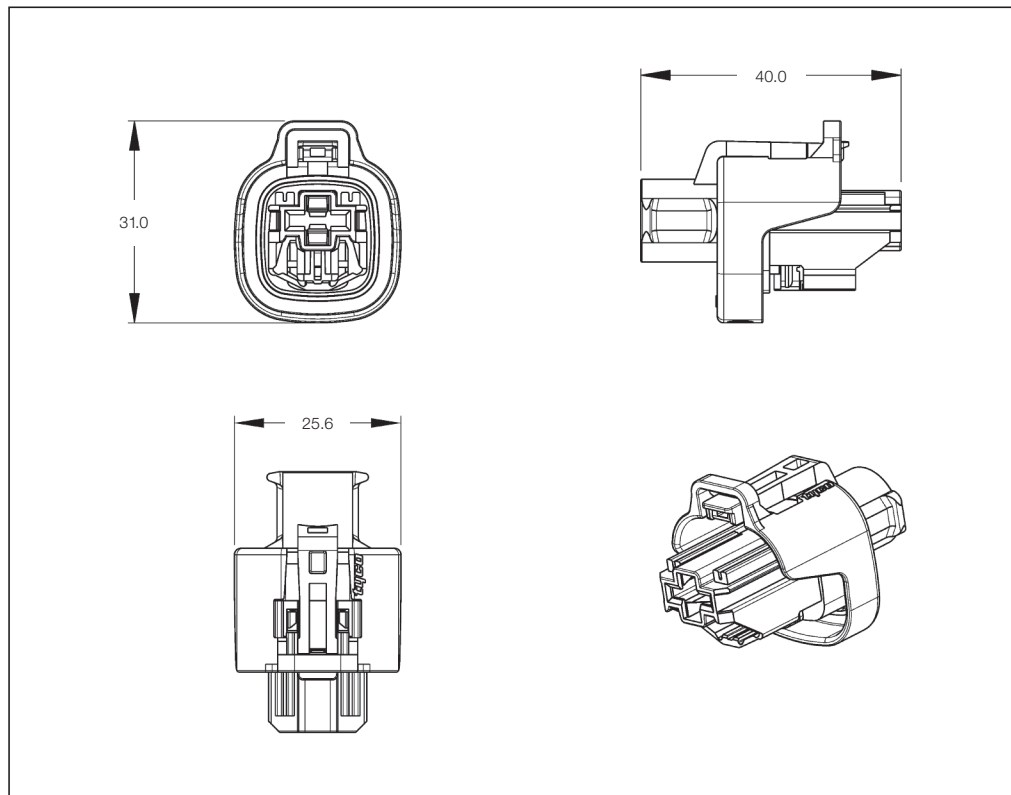
1 Position 8.0 mm NG1 Receptacles

Applications

- Power electrical functions
e.g. electrical pump and
engine cooling fan

Technical Features

- Primary and secondary
receptacle/tab latch
- Detection of a partially inserted
receptacle/tab
- Swallow effect
- High extraction force between
terminal and connector
- IP68 connector
- Color coded mechanical
polarization
- Secondary locking is an integral
part of the receptacle housing
- Crimping with seal
- Holder material: PBT



1 Position 8.0 mm NG1 Receptacles

Part Number	Package Quantity	Material	Color	Mating Contacts
1544603-1	2,000	PBT	Black	8.0 mm NG1 Receptacles: • 1544227-1 • 1544228-1 8.0 mm NG1 Seals: • 1544316-1 • 1544316-2
1544603-2	2,000	PBT	Blue	
1544603-3	2,000	PBT	Gray	

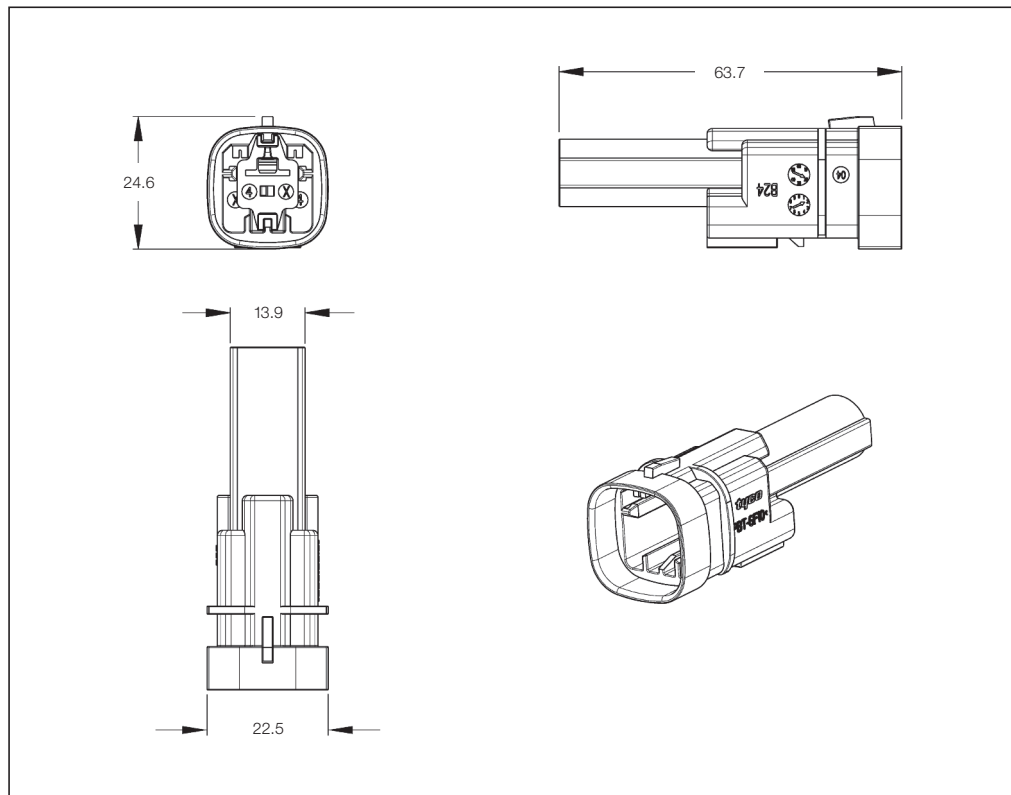
1 Position 8.0 mm NG1 Tabs

Applications

- Power electrical functions
e.g. electrical pump and
engine cooling fan

Technical Features

- Primary and secondary
receptacle/tab latch
- Detection of a partially inserted
receptacle/tab
- Swallow effect
- High extraction force between
terminal and connector
- IP68 connector
- Color coded mechanical
polarization
- Secondary locking is an integral
part of the receptacle housing
- Crimping with seal
- Holder material: PBT



1 Position 8.0 mm NG1 Tabs

Part Number	Package Quantity	Material	Color	Mating Contacts
1544606-1	1,400	PBT	Black	8.0 mm NG1 Tabs: • 1544332-1 • 1544333-1
1544606-2	1,400	PBT	Blue	8.0 mm NG1 Seals: • 1544316-1 • 1544316-2
1544606-3	1,400	PBT	Gray	

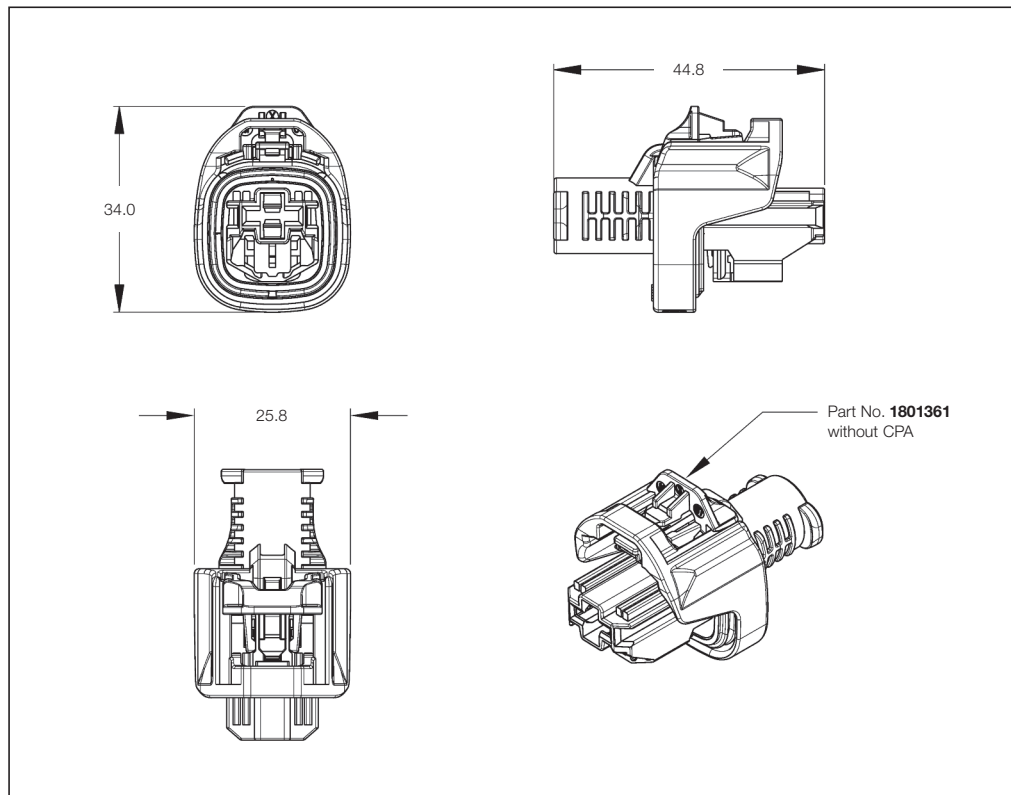
1 Position 8.0 mm NG1 Receptacle Housing Generation 2, with/without CPA

Application

- Power electrical functions:
 - Electrical pump
 - Electrical motor
 - Engine cooling fan
 - Heating elements
- Power distribution:
 - Fuse box

Technical Features

- Primary and secondary receptacle contact locking
- Mating assurance device (CPA)
- Detection of a partially inserted receptacle contact
- Positive lock effect
- IPX9K sealing
- Mechanical and color coding association
- Secondary locking is an integral part of the receptacle housing
- Crimped wire seal
- Housing Material: PBT



1 Position 8.0 mm NG1 Sealed Receptacle Housing Generation 2, with/without CPA

Part Numbers			Material	Color	Mating Contacts
Housing with CPA	Package Quantity	Housing without CPA			
1544680-1	1,700	1801361-1	PBT, UL 94-HB rated	Black	8.0 mm NG1 Receptacles: <ul style="list-style-type: none"> • 1544227-1 • 1544228-1 8.0 mm NG1Plus Receptacles: <ul style="list-style-type: none"> • 1544964-1 • 1544965-1 • 1544966-1 8.0 mm NG1 Seals: <ul style="list-style-type: none"> • 1544316-1 • 1544316-2 8.0 mm NG9K Seals: <ul style="list-style-type: none"> • 1544970-1 • 1544970-2 • 1544970-3
1544680-2	1,700	1801361-2	PBT, UL 94-HB rated	Blue	
1544680-3	1,700	1801361-3	PBT, UL 94-HB rated	Gray	

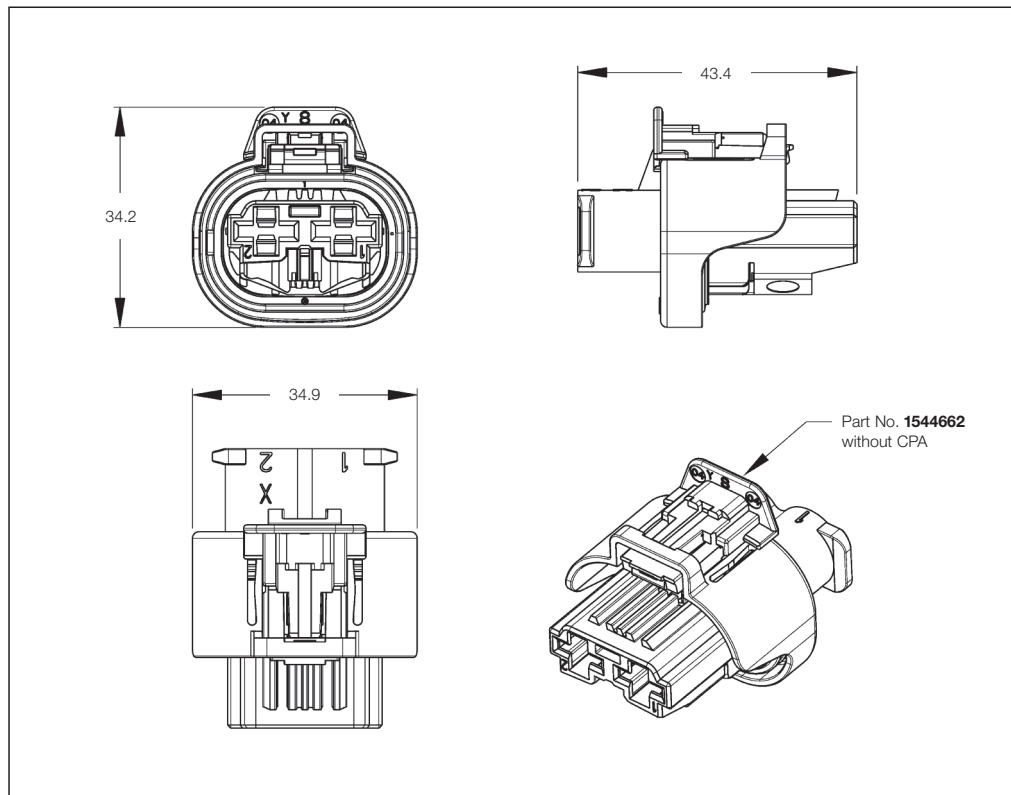
2 Position 8.0 mm NG1 Receptacle Housing, with Skirt, with/without CPA

Application

- Engine harness
- Power electrical functions
e.g. electrical pump and
engine cooling fan

Technical Features

- Connector could be connected
with a tab housing or a header
- Positive locking device
- Primary and secondary
(integrated) receptacle latch
- Material: PBT
- Mechanical Coding: 3 colors
- Temperature Class:
–40 °C to +100 °C
- Vibration Class: 3 g
- Sealing Class: 2 (IP68)
- CPA
- With or without complete skirt
(seal is protected all around
the connector)



2 Position 8.0 mm NG1 Receptacle Housing, with Skirt, with/without CPA

Part Numbers			Material	Color	Mating Contacts
Housing with CPA	Package Quantity	Housing without CPA			
1544650-1	1,200	1544662-1	PBT, UL 94-HB rated	Black	8.0 mm NG1 Receptacles: • 1544227-1 • 1544228-1
1544650-2	1,200	1544662-2	PBT, UL 94-HB rated	Blue	8.0 mm NG1Plus Receptacles: • 1544964-1 / 1544964-2 • 1544965-1 / 1544965-2 • 1544966-1 / 1544966-2
1544650-3	1,200	1544662-3	PBT, UL 94-HB rated	Gray	8.0 mm NG1 Seals: • 1544316-1 / 1544316-2

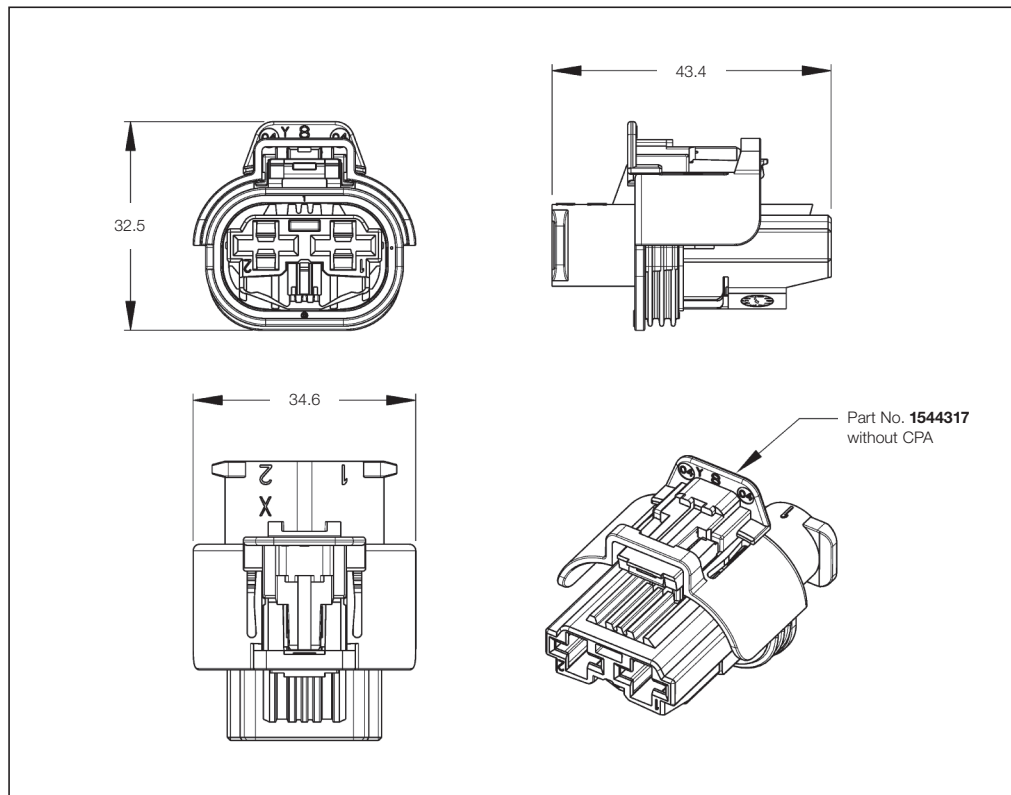
2 Position 8.0 mm NG1 Receptacle Housing, without Skirt, with/without CPA

Application

- Engine harness
- Power electrical functions
e.g. electrical pump and
engine cooling fan

Technical Features

- Connector could be connected
with a tab housing or a header
- Positive locking device
- Primary and secondary
(integrated) receptacle latch
- Material: PBT
- Mechanical Coding: 3 colors
- Temperature Class:
–40 °C to +100 °C
- Vibration Class: 3 g
- Sealing Class: 2 (IP68)
- CPA
- With or without complete skirt
(seal is protected all around
the connector)



2 Position 8.0 mm NG1 Receptacle Housing, without Skirt, with/without CPA

Part Numbers			Material	Color	Mating Contacts
Housing with CPA	Package Quantity	Housing without CPA			
1544678-1	1,200	1544317-1	PBT, UL 94-HB rated	Black	8.0 mm NG1 Receptacles: • 1544227-1 • 1544228-1
1544678-2	1,200	1544317-2	PBT, UL 94-HB rated	Blue	8.0 mm NG1Plus Receptacles: • 1544964-1 / 1544964-2 • 1544965-1 / 1544965-2 • 1544966-1 / 1544966-2
1544678-3	1,200	1544317-3	PBT, UL 94-HB rated	Gray	8.0 mm NG1 Seals: • 1544316-1 / 1544316-2

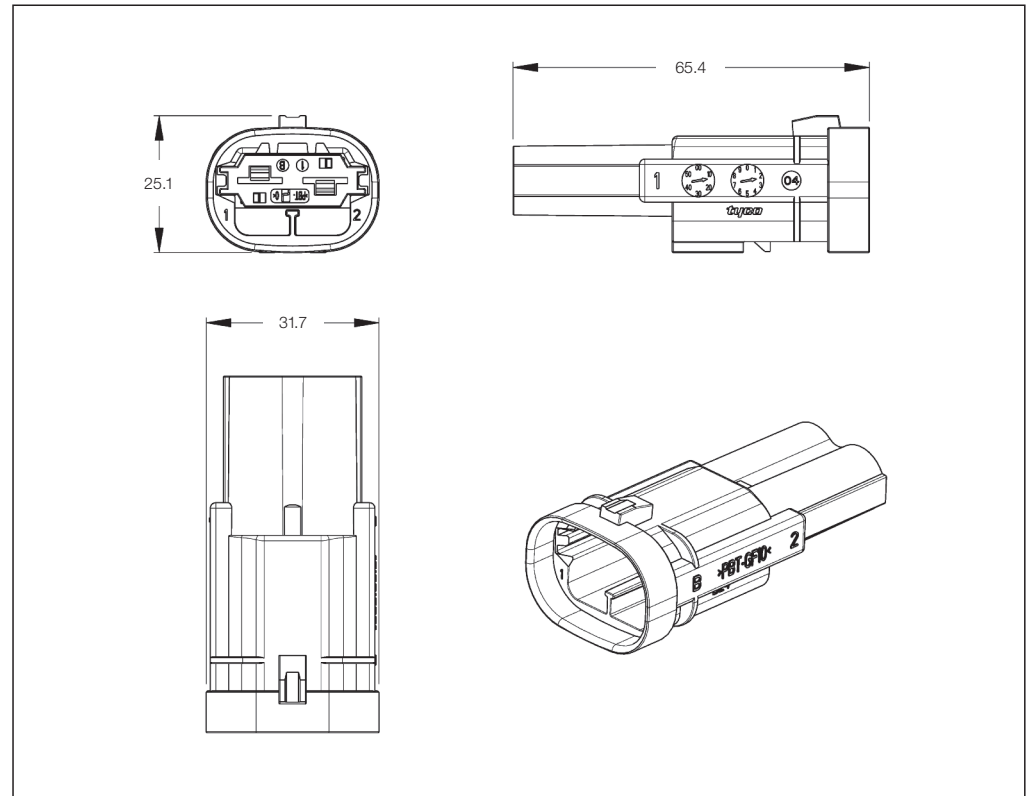
2 Position 8.0 mm NG1 Tab Housing

Application

- Engine harness
- Power electrical functions

Technical Features

- The connector could be connected with all 2 way 8.0 mm NG1 receptacle housing
- Positive locking device
- Bracket locking device
- Material: PBT
- Mechanical Coding: 3 colors
- Secondary lock
- Temperature Class: -40 °C to +100 °C
- Vibration Class: 3 g
- Sealing Class: 2 or 0



2 Position 8.0 mm NG1 Tab Housing

Part Number	Package Quantity	Material	Color	Mating Contacts
1544334-1	1,000	PBT GF10, UL 94 V-0 rated	Black	8.0 mm NG1 Tabs: • 1544332-1 • 1544333-1
1544334-2	1,000	PBT GF10, UL 94 V-0 rated	Blue	8.0 mm NG1Plus Tabs: • 1544967-1 / 1544967-2 • 1544968-1 / 1544968-2 • 1544969-1 / 1544969-2
1544334-3	1,000	PBT GF10, UL 94 V-0 rated	Gray	8.0 mm NG1 Seals: • 1544316-1 / 1544316-2

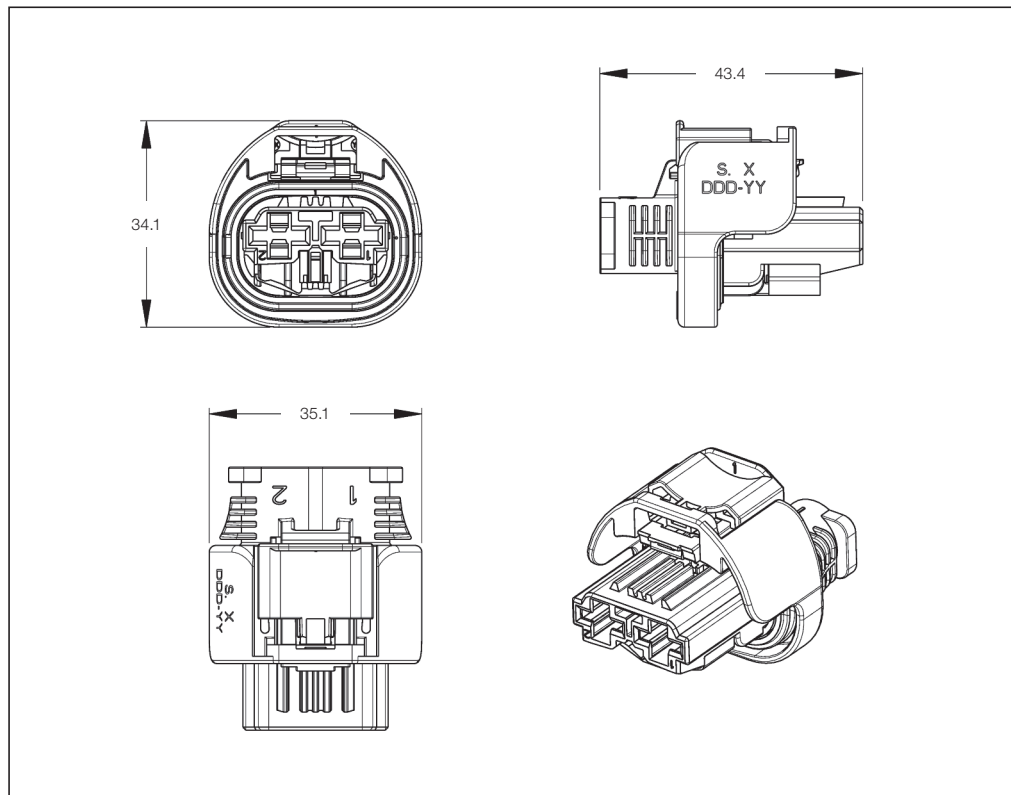
2 Position 8.0 mm NG1Plus Receptacle Housing

Application

- Engine harness
- Power electrical functions
e.g. electrical pump,
engine cooling fan, etc.

Technical Features

- Connector could be connected
with a tab housing or a header
- Positive locking device
- Primary and secondary
(integrated) receptacle latch
- Material: PBT, UL 94 V-0
- Mechanical Coding: 4 colors
- Vibration Class: 10 g
- Sealing Class: 2/IPX9K
- CPA
- With complete skirt
(seal is protected all around
the connector)



2 Position 8.0 mm NG1Plus Receptacle Housing

Part Number	Package Quantity	Material	Color	Mating Contacts
1544978-1	1,000	PBT, UL 94 V-0 rated	Black	8.0 mm NG1Plus Receptacles: <ul style="list-style-type: none"> • 1544964-1 / 1544964-2 • 1544965-1 / 1544965-2 • 1544966-1 / 1544966-2 8.0 mm NG9K Seals: <ul style="list-style-type: none"> • 1544970-1 • 1544970-2 • 1544970-3 8.0 mm NG1Plus Cavity Plug: <ul style="list-style-type: none"> • 1544970-4
1544978-2	1,000		Blue	
1544978-3	1,000		Gray	
1544978-4	1,000		Green	

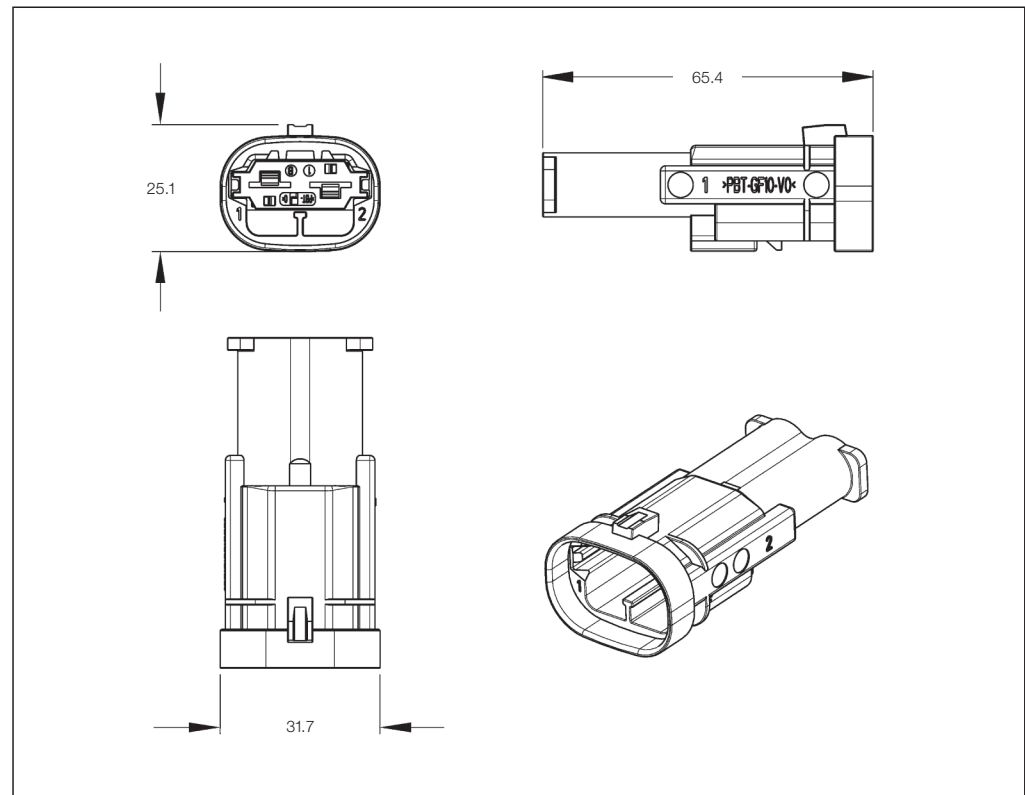
2 Position 8.0 mm NG1Plus Tab Housing

Application

- Engine harness
- Power electrical functions
e.g. electrical pump,
engine cooling fan, etc.

Technical Features

- Connector could be connected
with a receptacle housing
- Positive locking device
- Primary and secondary
(integrated) receptacle latch
- Material: PBT GF10
- Mechanical Coding: 4 colors
- Vibration Class: 10 g
- Sealing Class: 2/IPX9K
- CPA
- With complete skirt
(seal is protected all around
the connector)



2 Position 8.0 mm NG1Plus Tab Housing

Part Number	Package Quantity	Material	Color	Mating Contacts
1544980-1	1,000	PBT GF10, UL 94 V-0 rated	Black	8.0 mm NG1Plus Tabs: <ul style="list-style-type: none"> • 1544967-1 / 1544967-2 • 1544968-1 / 1544968-2 • 1544969-1 / 1544969-2
1544980-2	1,000		Blue	8.0 mm NG9K Seals: <ul style="list-style-type: none"> • 1544970-1 • 1544970-2 • 1544970-3
1544980-3	1,000		Gray	8.0 mm NG1Plus Cavity Plug: <ul style="list-style-type: none"> • 1544970-4
1544980-4	1,000		Green	

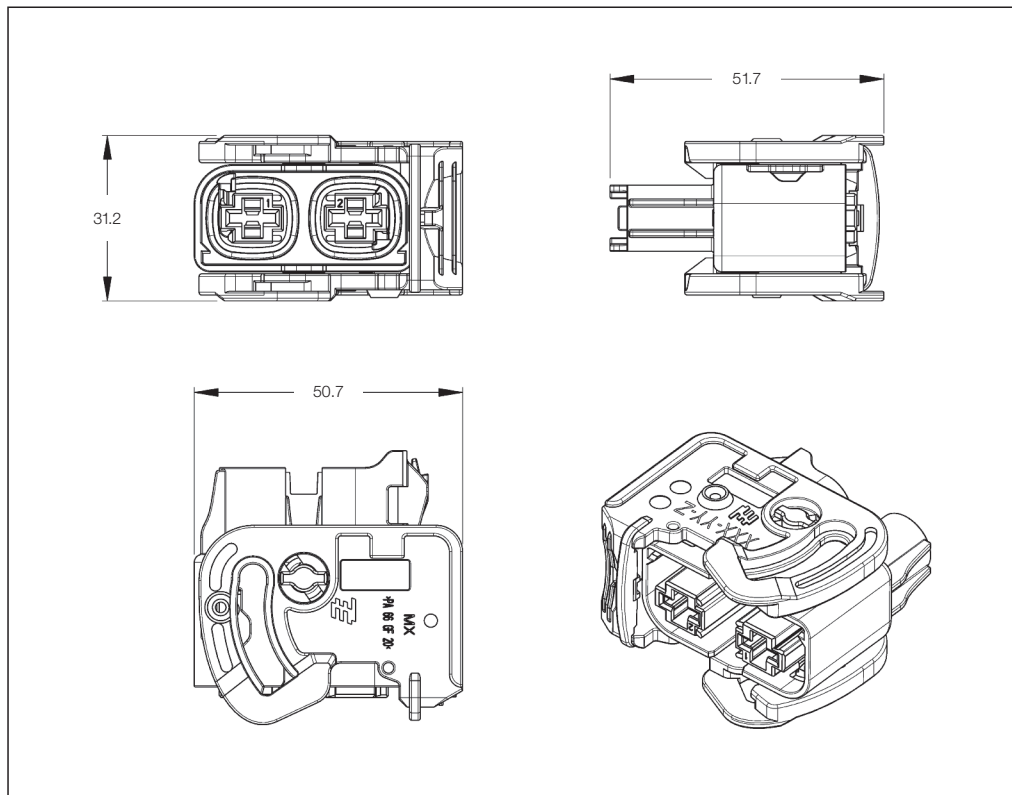
2 Position Insulated 8.0 mm NG1 Receptacle Housing – Sealed by Position

Application

- Engine harness
- Power electrical functions
e.g. electrical pump,
engine cooling fan, etc.

Technical Features

- The connector could be connected with a header
- Two separated sealed cavities
- Lever locking device
- Material: PBT GF10, V-0 for the main housing
- Mechanical Coding: 3 colors
- Two secondary lock
- Temperature Class: -40 °C to +100 °C
- Vibration Class: 10 g
- Sealing Class: 2/IPX9K



2 Position Insulated 8.0 mm Receptacle Housing

Part Number	Package Quantity	Material	Color	Mating Contacts
1801398-1	300	PBT GF10, UL 94 V-0 rated and PA 66 V-0 & HB rated	Black	8.0 mm NG1Plus Receptacles: • 1544964-1 / 1544964-2 • 1544965-1 / 1544965-2 • 1544966-1 / 1544966-2
1801398-2	300		Blue	8.0 mm NG9K Seals: • 1544970-1 / 1544970-2 • 1544970-3
1801398-3	300		Gray	8.0 mm Cavity Plug: • 1544970-4

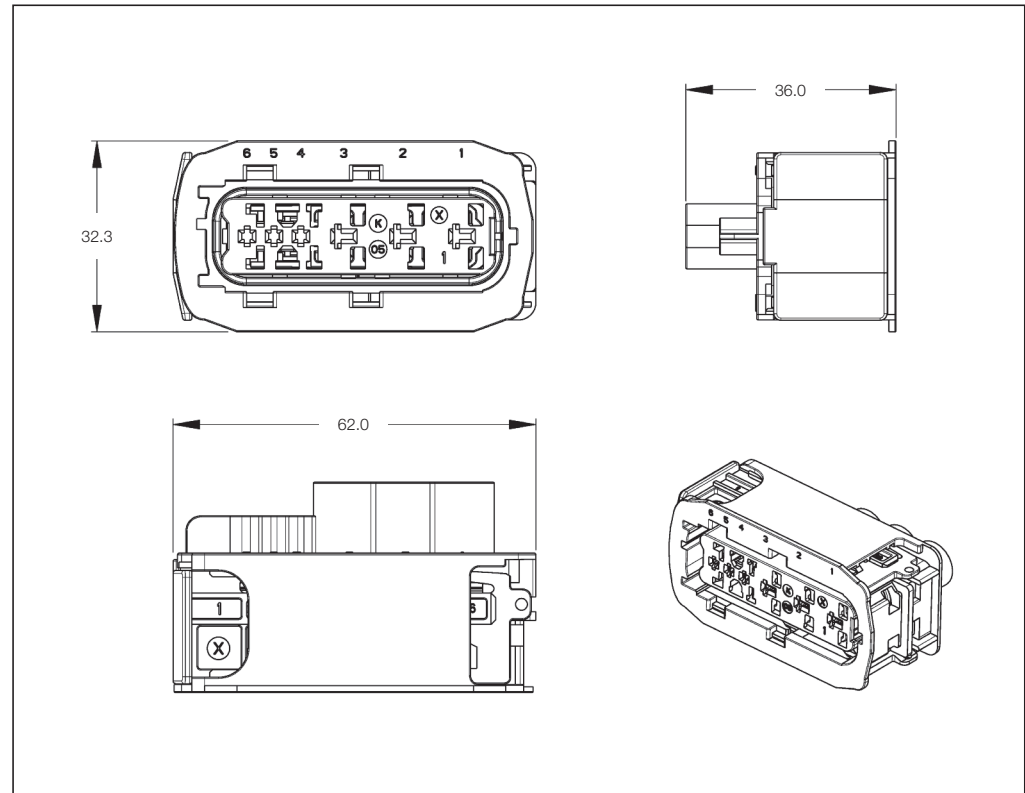
6 Position Hybrid 2.8 mm NGP and 1.5 mm Header with Slider

Application

- Fuse and relay holder

Technical Features

- Primary and secondary receptacle locking
- Detection of partially inserted receptacle
- Slide locking system
- Color coded mechanical polarization
- Temperature Class: -40 °C to +100 °C
- Vibration Class: 3 g
- Sealed



6 Position Hybrid 2.8 mm NGP and 1.5 mm Receptacle Connectors

Part Number	Package Quantity	Material	Color	Mating Contacts
1544938-1	340	PBT, UL 94-HB rated	Black	2.8 mm NGP: • 1544555-1 • 1544940-1
1544938-2	340	PBT, UL 94-HB rated	Gray	2.8 mm NGP Seals: • 1544941-1

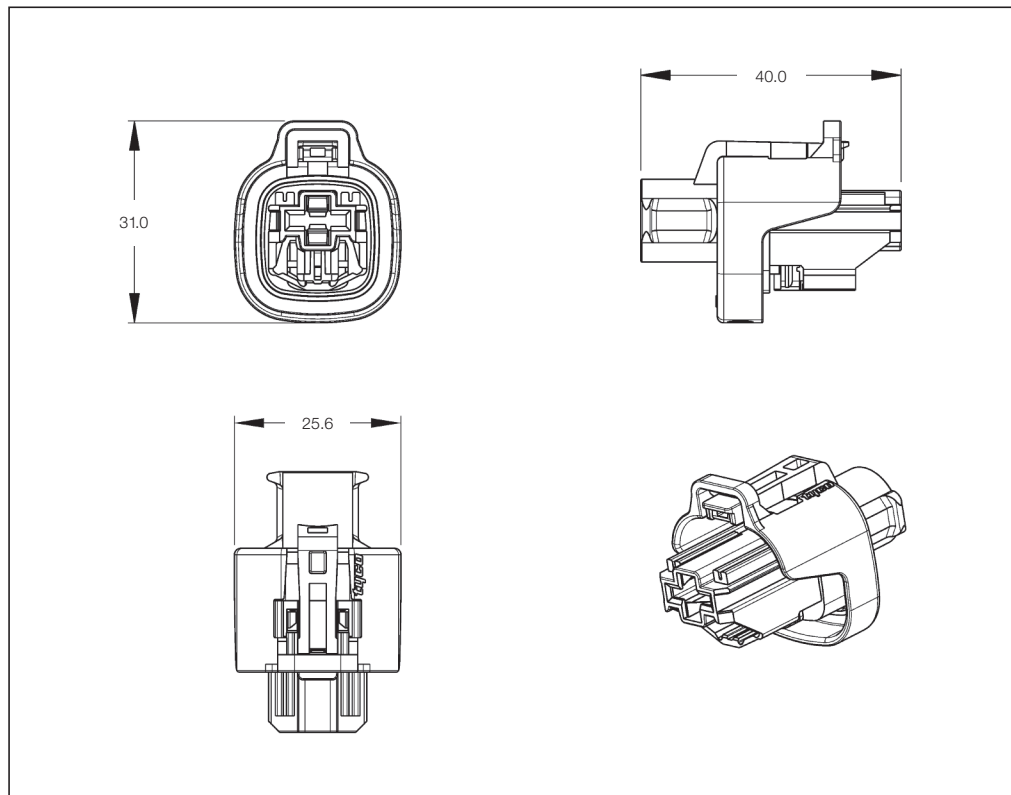
1 Position 8.0 mm NG1 Receptacles

Applications

- Power electrical functions
e.g. electrical pump and
engine cooling fan

Technical Features

- Primary and secondary
receptacle/tab latch
- Detection of a partially inserted
receptacle/tab
- Swallow effect
- High extraction force between
terminal and connector
- IP68 connector
- Color coded mechanical
polarization
- Secondary locking is an integral
part of the receptacle housing
- Crimping with seal
- Holder material: PBT



1 Position 8.0 mm NG1 Receptacles

Part Number	Package Quantity	Material	Color	Mating Contacts
1544603-1	2,000	PBT	Green	8.0 mm NG1 Receptacles: • 1544227-1 • 1544228-1
1544603-2	2,000	PBT	Brown	
1544603-3	2,000	PBT	White	

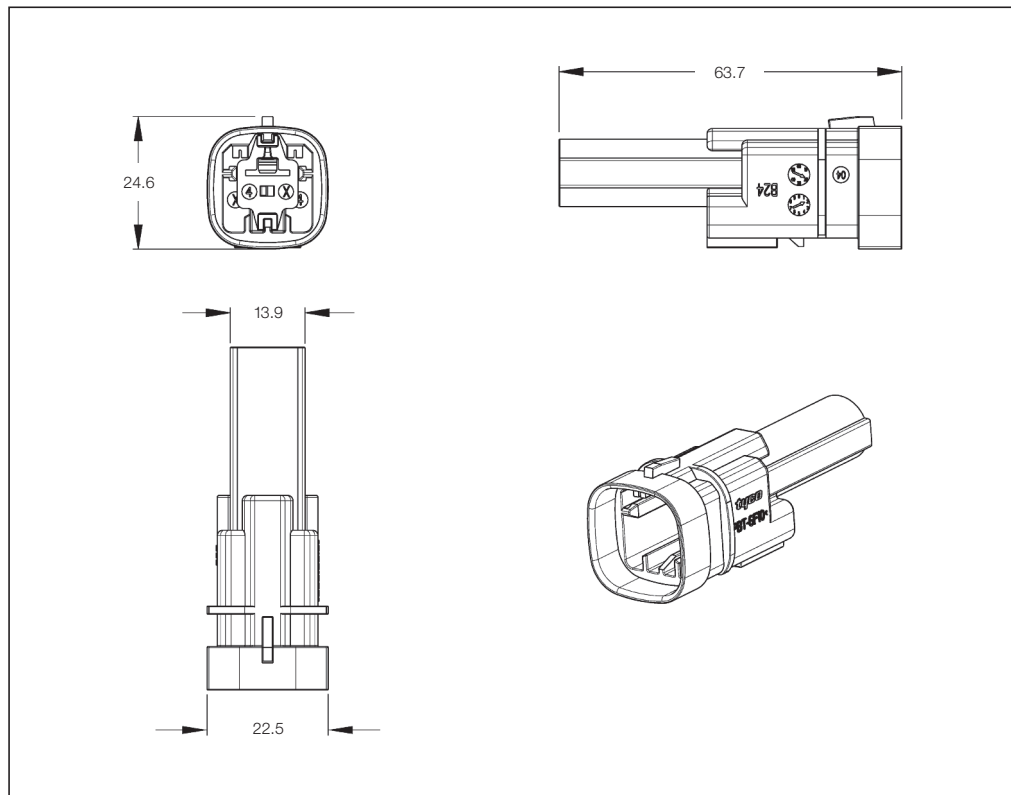
1 Position 8.0 mm NG1 Tabs

Applications

- Power electrical functions
e.g. electrical pump and
engine cooling fan

Technical Features

- Primary and secondary
receptacle/tab latch
- Detection of a partially inserted
receptacle/tab
- Swallow effect
- High extraction force between
terminal and connector
- IP68 connector
- Color coded mechanical
polarization
- Secondary locking is an integral
part of the receptacle housing
- Crimping with seal
- Holder material: PBT



1 Position 8.0 mm NG1 Tabs

Part Number	Package Quantity	Material	Color	Mating Contacts
1544606-4	1,400	PBT	Green	8.0 mm NG1 Tabs: • 1544332-1 • 1544333-1
1544606-5	1,400	PBT	Brown	
1544606-6	1,400	PBT	White	

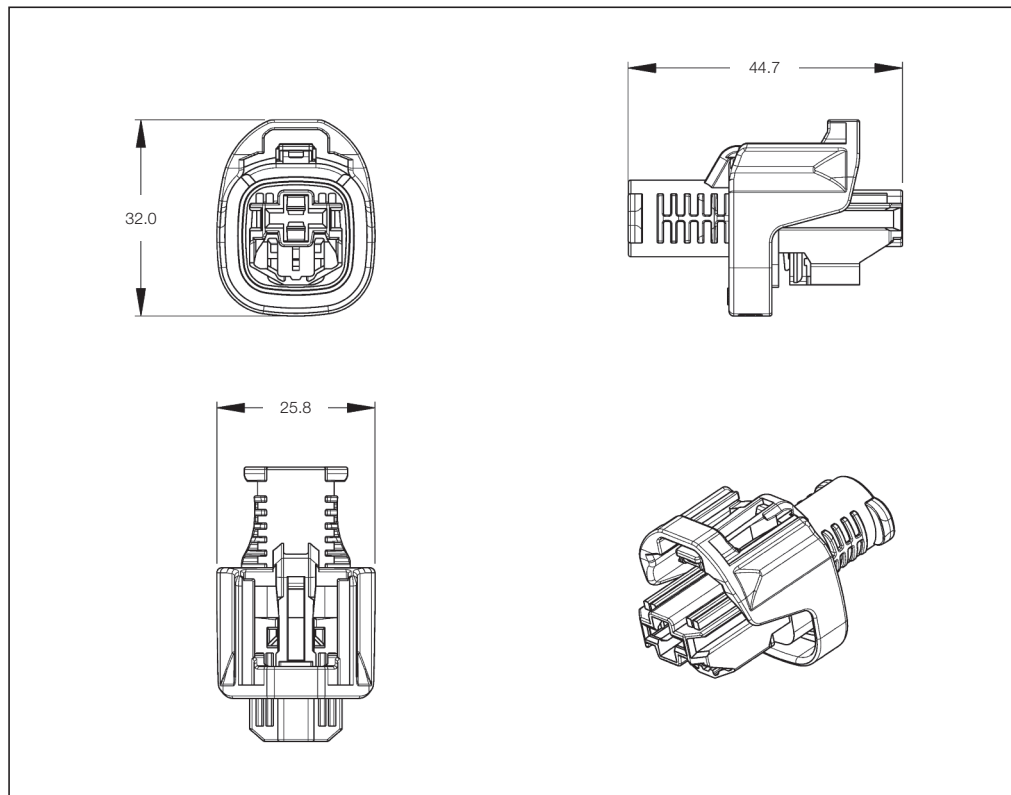
1 Position 8.0 mm NG1 Receptacle Housing Generation 2, with/without CPA

Application

- Power electrical functions:
 - Electrical pump
 - Electrical motor
 - Engine cooling fan
 - Heating elements
- Power distribution:
 - Fuse box

Technical Features

- Primary and secondary receptacle contact locking
- Mating assurance device (CPA)
- Detection of a partially inserted receptacle contact
- Positive lock effect
- IPX9K sealing
- Mechanical and color coding association
- Secondary locking is an integral part of the receptacle housing
- Crimped wire seal
- Housing Material: PBT



1 Position 8.0 mm NG1 Receptacle Housing Generation 2, with/without CPA

Part Numbers			Material	Color	Mating Contacts
Housing with CPA	Package Quantity	Housing without CPA			
1801437-1	1,700	1544998-1	PBT, UL 94-HB rated	Black	8.0 mm NG1 Receptacles: <ul style="list-style-type: none"> • 1544227-1 • 1544228-1 8.0 mm NG1Plus Receptacles: <ul style="list-style-type: none"> • 1544964-1 / 1544964-2 • 1544965-1 / 1544965-2 • 1544966-1 / 1544966-2
1801437-2	1,700	1544998-2	PBT, UL 94-HB rated	Blue	
1801437-3	1,700	1544998-3	PBT, UL 94-HB rated	Gray	

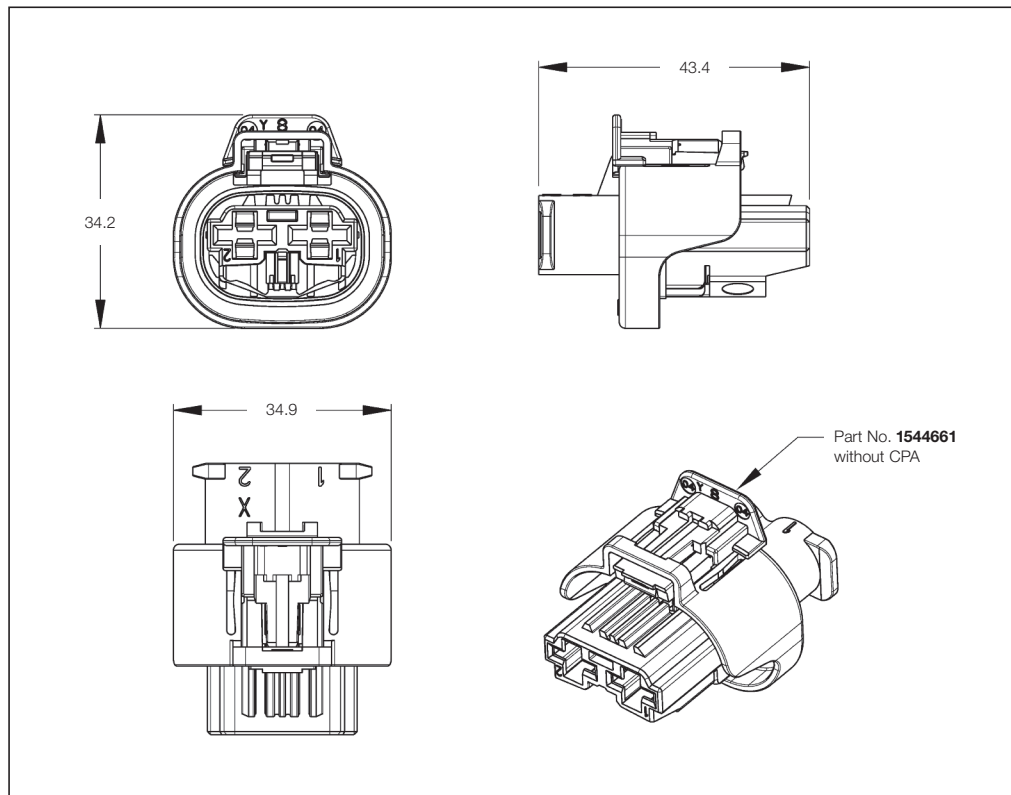
2 Position 8.0 mm NG1 Receptacle Housing

Application

- Engine harness
- Power electrical functions
e.g. electrical pump and
engine cooling fan

Technical Features

- Connector could be connected
with a tab housing or a header
- Positive locking device
- Primary and secondary
(integrated) receptacle latch
- Material: PBT
- Mechanical Coding: 3 colors
- Temperature Class:
–40 °C to +100 °C
- Vibration Class: 3 g
- Sealing Class: 0
- CPA
- With or without complete skirt



2 Position 8.0 mm NG1 Receptacle Housing, with Skirt, with/without CPA

Part Numbers			Material	Color	Mating Contacts
Housing with CPA	Package Quantity	Housing without CPA			
1544653-1	1,200	1544661-1	PBT, UL 94-HB rated	Black	8.0 mm NG1 Receptacles: • 1544227-1 • 1544228-1
1544653-2	1,200	1544661-2	PBT, UL 94-HB rated	Blue	8.0 mm NG1Plus Receptacles: • 1544964-1 / 1544964-2 • 1544965-1 / 1544965-2 • 1544966-1 / 1544966-2
1544653-3	1,200	1544661-3	PBT, UL 94-HB rated	Gray	

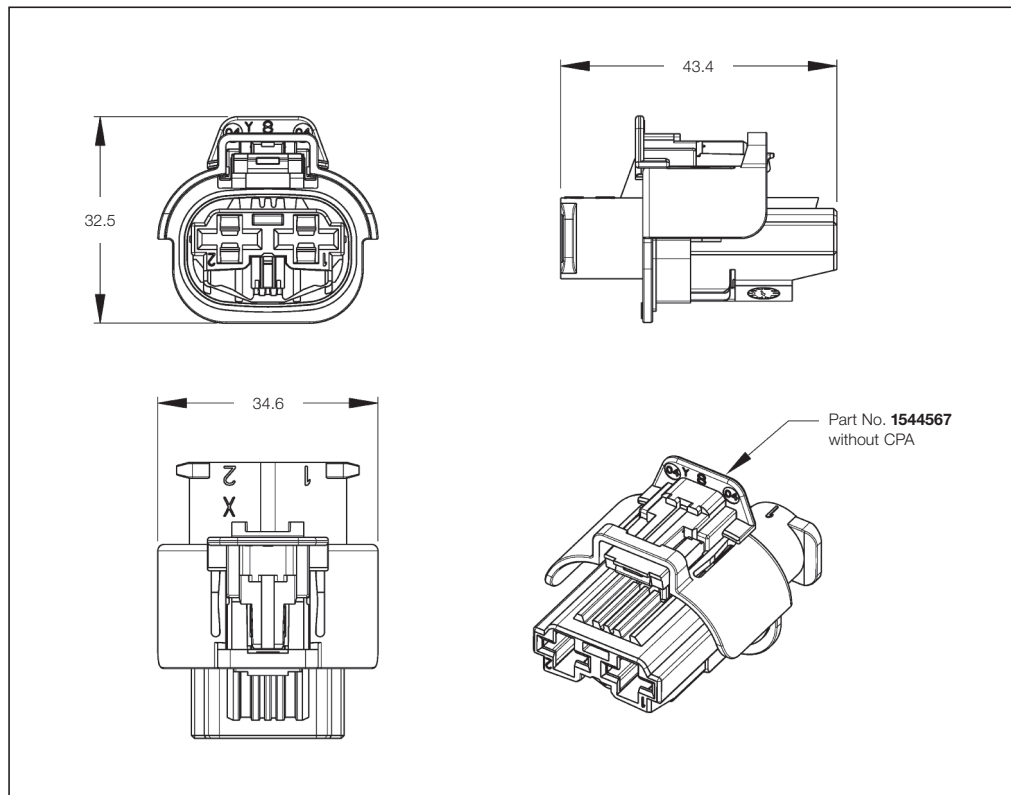
2 Position 8.0 mm NG1 Receptacle Housing

Application

- Engine harness
- Power electrical functions
e.g. electrical pump and
engine cooling fan

Technical Features

- Connector could be connected
with a tab housing or a header
- Positive locking device
- Primary and secondary
(integrated) receptacle latch
- Material: PBT
- Mechanical Coding: 3 colors
- Temperature Class:
–40 °C to +100 °C
- Vibration Class: 3 g
- Sealing Class: 0
- CPA
- With or without complete skirt



2 Position 8.0 mm NG1 Receptacle Housing, without Skirt, with/without CPA

Part Numbers			Material	Color	Mating Contacts
Housing with CPA	Package Quantity	Housing without CPA			
1544679-1	1,200	1544567-1	PBT, UL 94-HB rated	Black	8.0 mm NG1 Receptacles: • 1544227-1 • 1544228-1
1544679-2	1,200	1544567-2	PBT, UL 94-HB rated	Blue	8.0 mm NG1Plus Receptacles: • 1544964-1 / 1544964-2 • 1544965-1 / 1544965-2
1544679-3	1,200	1544567-3	PBT, UL 94-HB rated	Gray	• 1544966-1 / 1544966-2

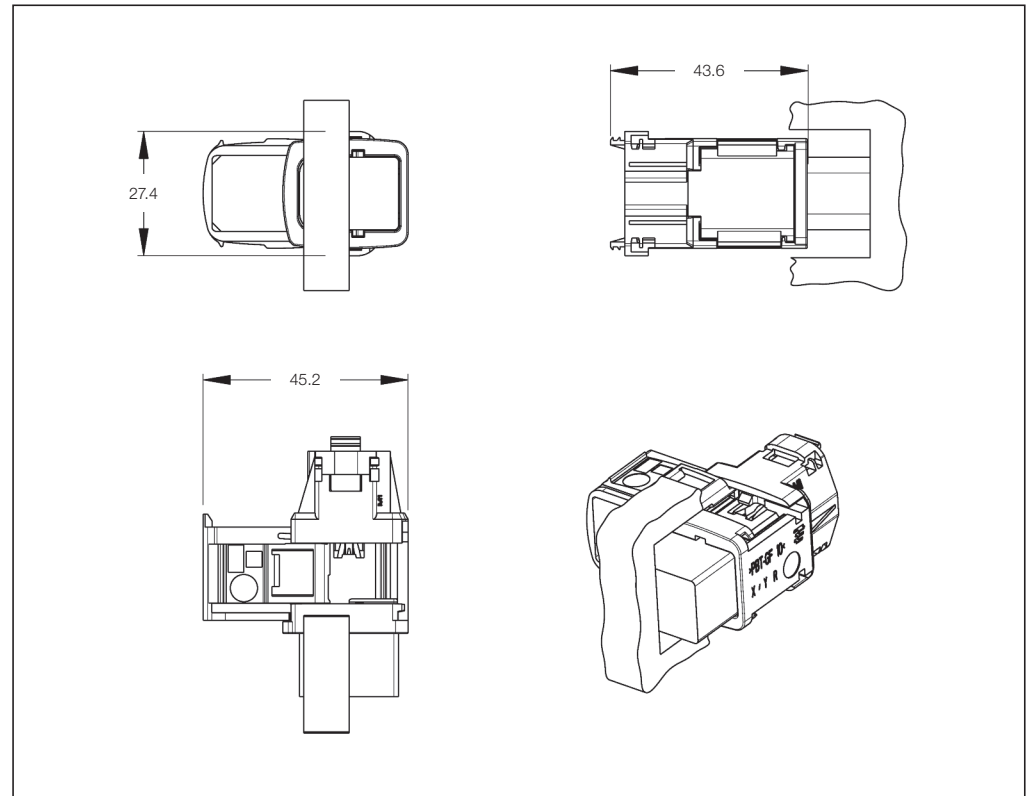
2 Position 8.0 mm NG1 Receptacle Connector with Slide

Applications

- Fuse and relay holder

Technical Features

- Primary and secondary receptacle locking
- Detection of a partially inserted receptacle
- Slide locking system
- Color coded mechanical polarization
- Temperature Class: -40 °C to +100 °C
- Vibration Class: 3 g
- Unsealed



2 Position 8.0 mm NG1 Receptacle Connector with Slide

Part Number	Package Quantity	Material	Color	Mating Contacts
1801422-1	684	PBT GF10, UL 94 V-0 rated for the main housing	Black	8.0 mm NG1Plus Receptacles: • 1544964-1 / 1544964-2 • 1544965-1 / 1544965-2 • 1544966-1 / 1544966-2
1801422-2	684		Blue	
1801422-3	684		White	

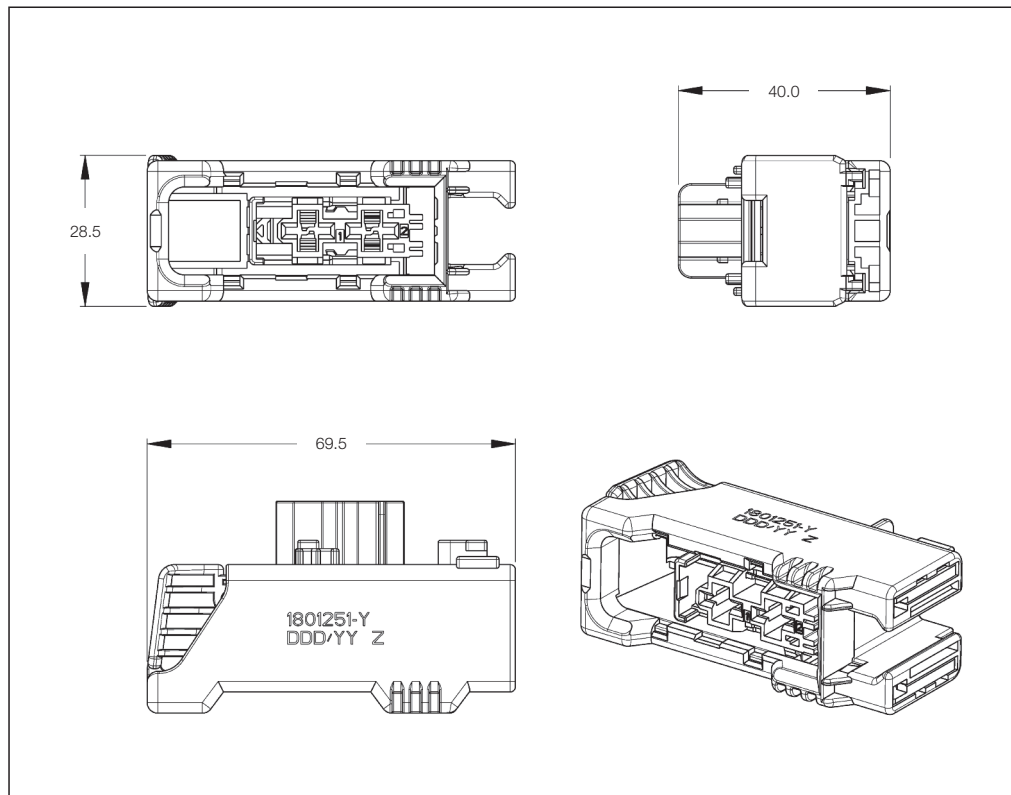
2 Position 8.0 mm NG1 Receptacle Assembly (Interface for 8 Position TH 0.635)

Applications

- Body harness

Technical Features

- Detection of a partially inserted receptacle
- Instruction Sheet: 411-15731



2 Position 8.0 mm NG1 Receptacle Assembly

Part Number	Package Quantity	Material	Color	Mating Contacts
1801251-1	500	PBT	Black	8.0 mm NG1 Receptacles: <ul style="list-style-type: none"> • 1544227-1 • 1544228-1 8.0 mm TH 0.635 Receptacles: <ul style="list-style-type: none"> • 1674298-1
1801251-2	500	PBT	Gray	
1801251-3	500	PBT	Blue	

Cover

Part Number	Package Quantity	Material	Color	Mating Contacts
1801255-1	800	PBT	Black	–

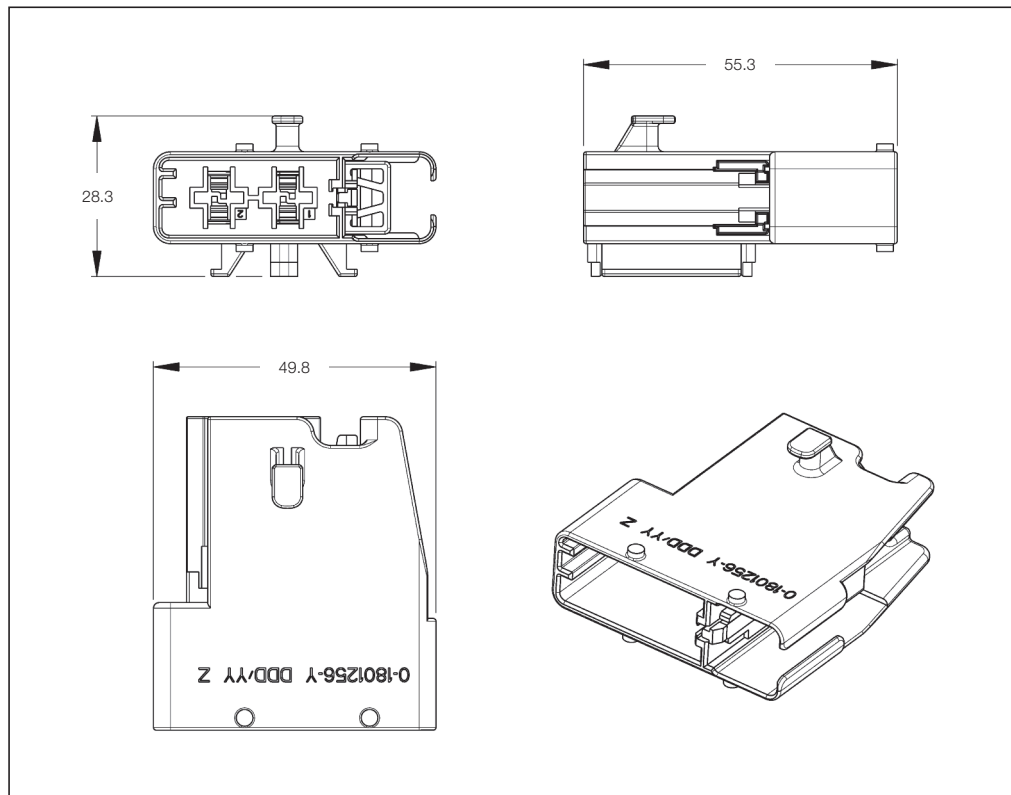
2 Position 8.0 mm NG1 Tab Assembly (Interface for 8 Position TH 0.635)

Applications

- Body harness

Technical Features

- Detection of a partially inserted receptacle
- Instruction Sheet: 411-15731



2 Position 8.0 mm NG1 Tab Assembly

Part Number	Package Quantity	Material	Color	Mating Contacts
1801256-1	460	PBT	Black	8.0 mm NG1 Tabs: • 1544332-1 • 1544333-1 8.0 mm NG1 Tabs TH 0.635: • 1674742-1
1801256-2	460	PBT	Gray	
1801256-3	460	PBT	Blue	
1-1801256-1	460	PBT	Black	8.0 mm NG1 Tabs: • 1544332-1 • 1544333-1 8.0 mm NG1 Tabs TH 0.635: • 1674742-1
1-1801256-2	460	PBT	Gray	
1-1801256-3	460	PBT	Blue	

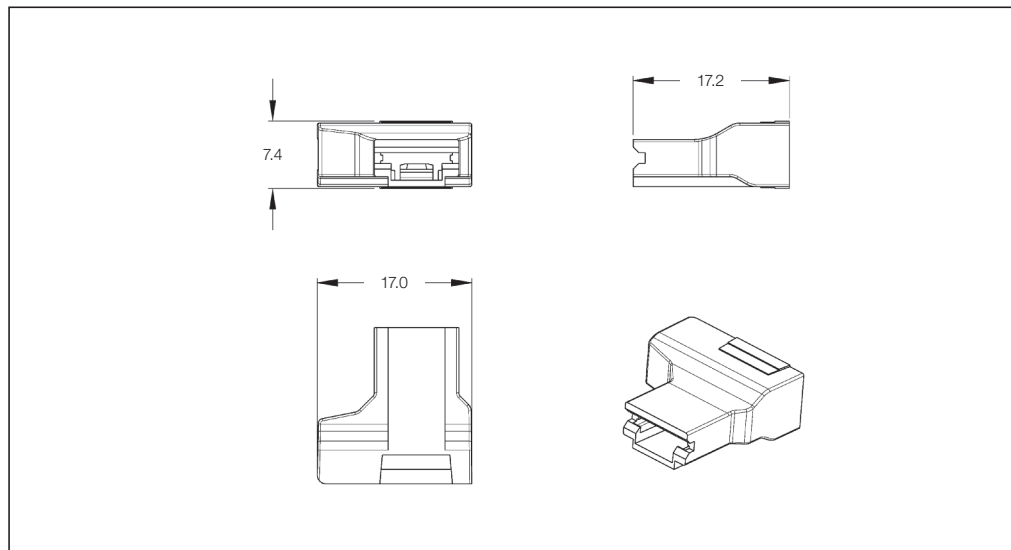
Lamp Housings

Application

- Lamp

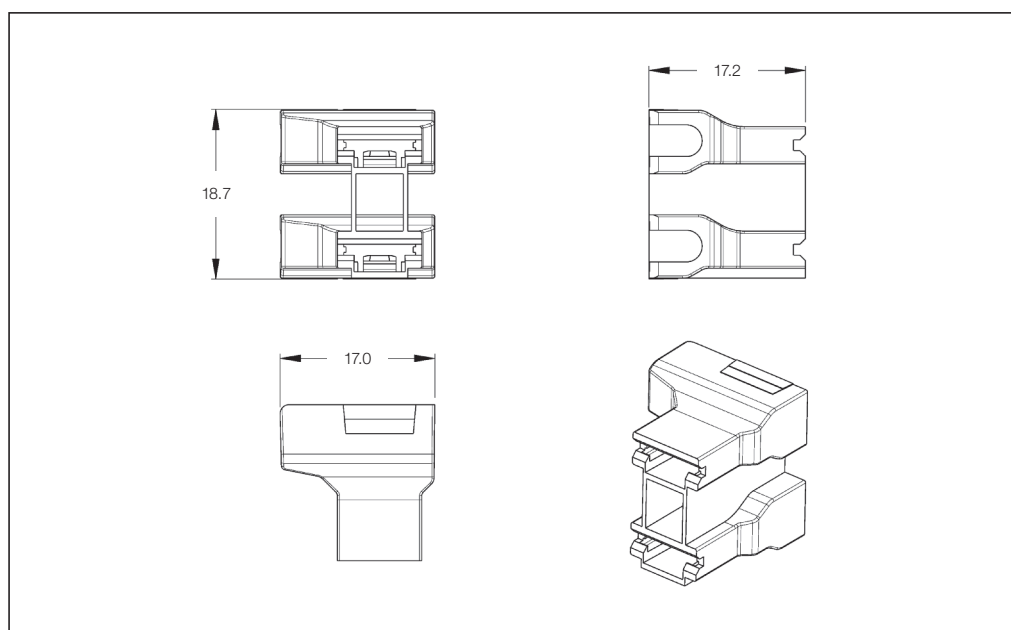
Technical Features

- Low insertion force
- Low profile
- Initial Contact Resistance:
< 3 mΩ
- Raw Material: German silver
- Current Capacity
for 40 °C rise in T°:
1.0 mm² = 11 A
3.0 mm² = 14 A



1 Position H1 Lamp Housing

Part Number	Package Quantity	Material	Color	Mating Contacts
1544351-1	19,000	PCT, UL 94 V-0 rated	Black	6.35 mm Flag Terminals: • 1544113-4 • 1544114-4



2 Position H7 Lamp Housing

Part Number	Package Quantity	Material	Color	Mating Contacts
1544352-1	6,000	PA 6.6, UL 94 HB rated	Black	6.35 mm Flag Terminals: • 1544113-4 • 1544114-4

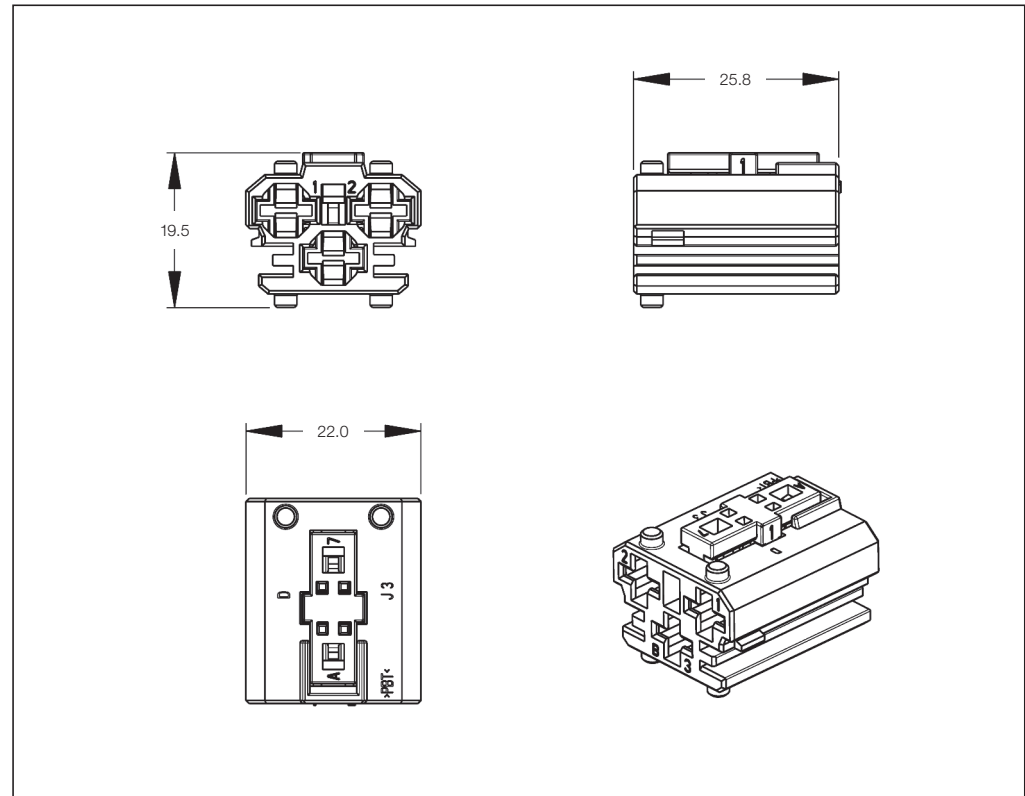
3 Position 6.35 mm NG1 Receptacle Connector

Applications

- Locking steering column
- Fuse box and relay holder

Technical Features

- Primary and secondary receptacle/tab latch
- Detection of a partially inserted receptacle/tab
- Cam locking system
- High extraction force between terminal and connector
- Color coded mechanical polarization
- Pre-assembled front grids protect the contact and guide the tab during entry into receptacle
- Holder Material: PBT



3 Position 6.35 mm NG1 Receptacle Connectors

Part Number	Package Quantity	Material	Color	Mating Contacts
1544225-1	1,980	PBT	Black	6.35 mm NG1 Receptacle: • 1544133-1
1544225-2	1,980	PBT	Blue	
1544225-3	1,980	PBT	Green	

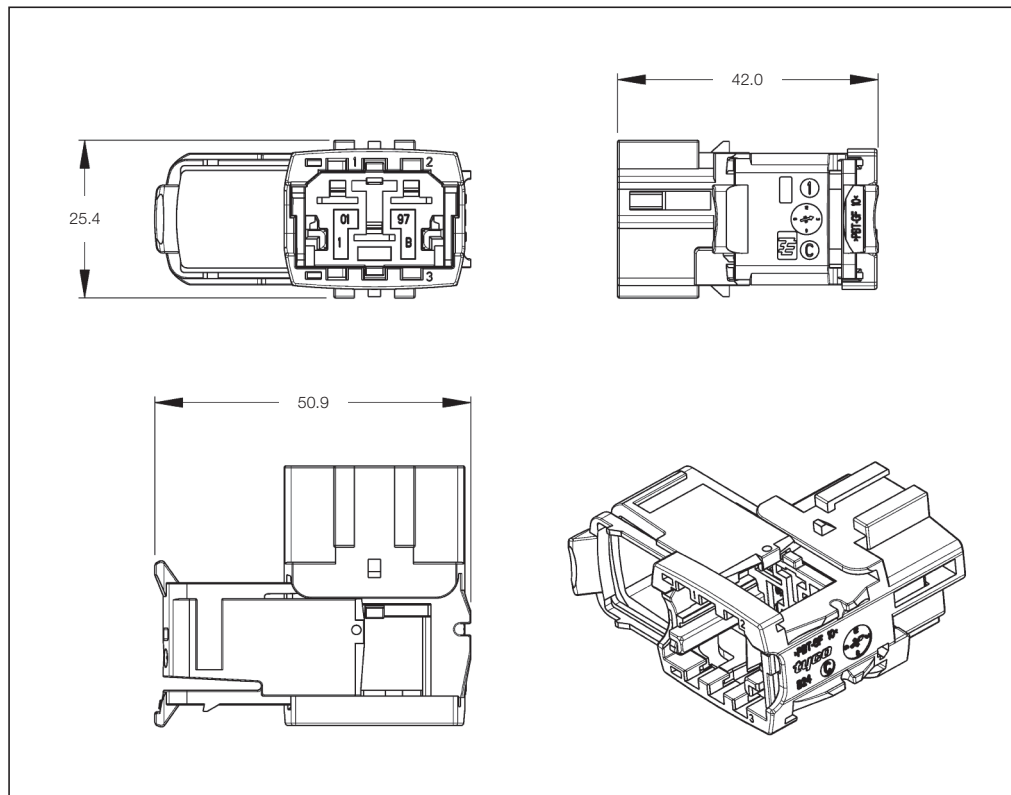
3 Position 6.35 mm NG1 Tab Connector

Applications

- Locking steering column
- Fuse box and relay holder

Technical Features

- Primary and secondary receptacle/tab latch
- Detection of a partially inserted receptacle/tab
- Cam locking system
- High extraction force between terminal and connector
- Color coded mechanical polarization
- Pre-assembled front grids protect the contact and guide the tab during entry into receptacle
- Holder Material: PBT



3 Position 6.35 mm NG1 Tab Connectors

Part Number	Package Quantity	Material	Color	Mating Contacts
1544226-1	600	PBT	Black	6.35 mm NG1 Tab: ● 1544218-1
1544226-2	600	PBT	Blue	
1544226-3	600	PBT	Green	

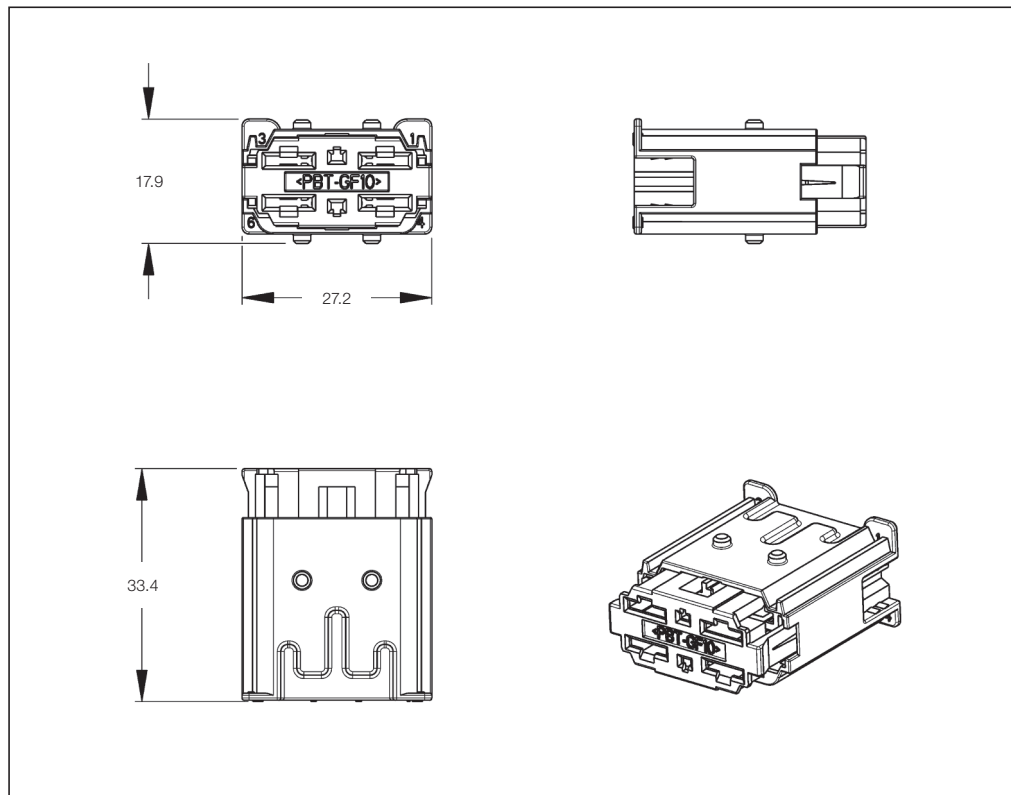
4 Position 6.35 mm NG1 Receptacle Connector

Applications

- Locking steering column
- Fuse box and relay holder

Technical Features

- Primary and secondary receptacle/tab latch
- Detection of a partially inserted receptacle/tab
- Cam locking system
- High extraction force between terminal and connector
- Color coded mechanical polarization
- Pre-assembled front grids protect the contact and guide the tab during entry into receptacle
- Holder Material: PBT



4 Position 6.35 mm NG1 Receptacle Connector

Part Number	Package Quantity	Material	Color	Mating Contacts
1544147-1	1,785	PBT	Black	6.35 mm NG1 Receptacle: ● 1544133-1

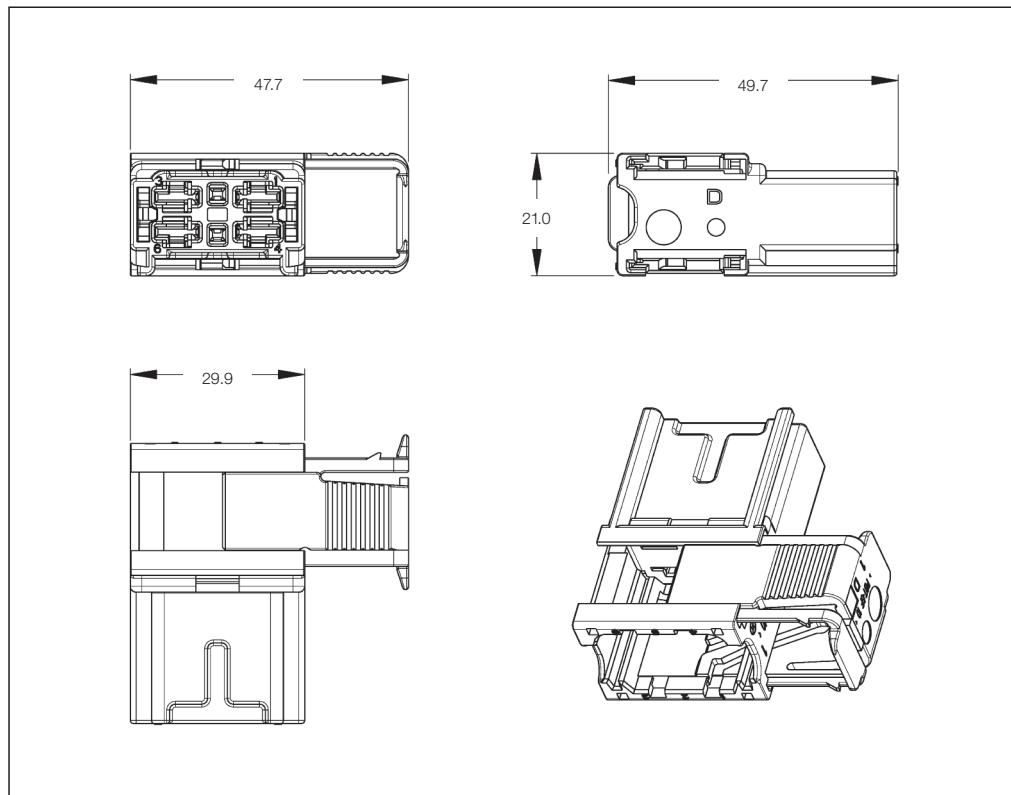
4 Position 6.35 mm NG1 Tab Connector

Applications

- Locking steering column
- Fuse box and relay holder

Technical Features

- Primary and secondary receptacle/tab latch
- Detection of a partially inserted receptacle/tab
- Cam locking system
- High extraction force between terminal and connector
- Color coded mechanical polarization
- Pre-assembled front grids protect the contact and guide the tab during entry into receptacle
- Holder Material: PBT



4 Position 6.35 mm NG1 Tab Connector – Right Slide

Part Number	Package Quantity	Material	Color	Mating Contacts
1544148-1	805	PBT	Black	6.35 mm NG1 Tab: ● 1544218-1

4 Position 6.35 mm NG1 Tab Connector – Left Slide

Part Number	Package Quantity	Material	Color	Mating Contacts
1544149-1	805	PBT	Red	6.35 mm NG1 Tab: ● 1544218-1

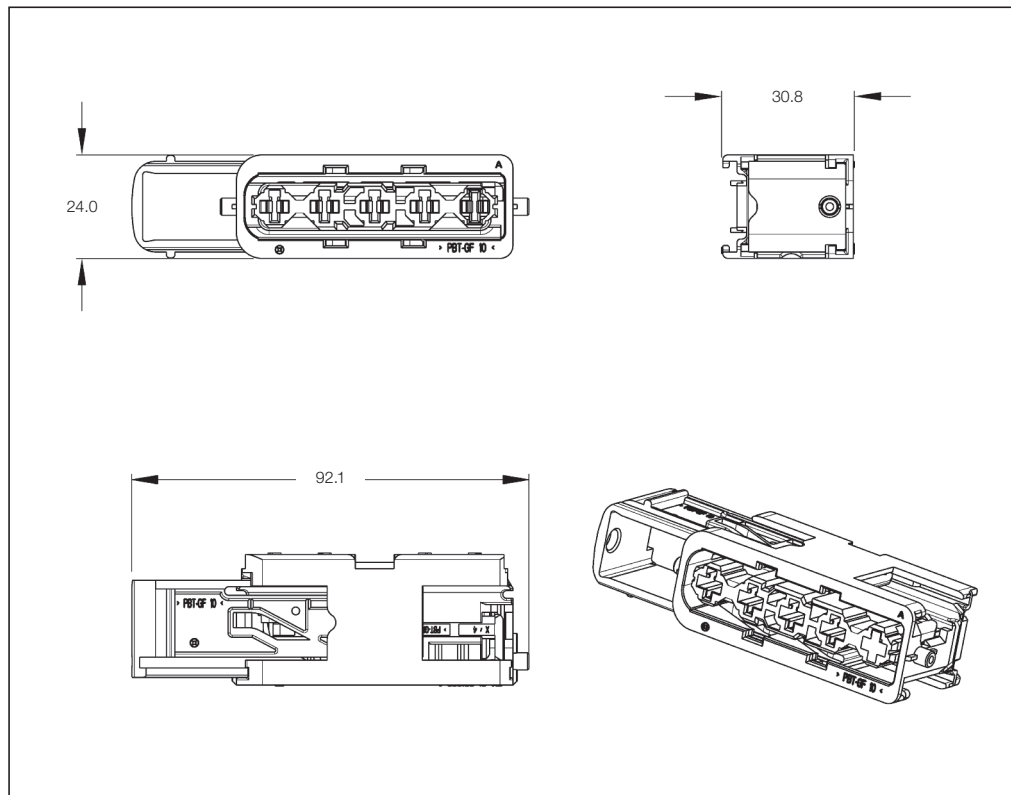
5 Position 6.35 mm NG1 Receptacle Connectors

Applications

- Additional heating resistance

Technical Features

- Primary and secondary receptacle locking
- Detection of a partially inserted receptacle
- Covers available
- Slide locking system
- Pre-assembled front grids protect the contact and guide the tab during entry into receptacle
- Vibration Class: 3 g
- Unsealed



5 Position 6.35 mm NG1 Receptacle Connector – Right Slide

Part Number	Package Quantity	Material	Color	Mating Contacts
1544551-1	400	PBT, UL 94 V-0 rated, for the main housing	Black	6.35 mm NG1 Receptacle: ● 1544133-1

5 Position 6.35 mm NG1 Receptacle Connector – Left Slide

Part Number	Package Quantity	Material	Color	Mating Contacts
1544551-2	400	PBT, UL 94 V-0 rated, for the main housing	Black	6.35 mm NG1 Receptacle: ● 1544133-1

5 Position 6.35 mm NG1 Cover (High or Lower)

Part Number	Package Quantity	Material	Color	Mating Contacts
1544552-1	1,600	PBT, UL 94-HB rated	Black	–
1544932-1	1,600			

Engineering Notes

A large grid area for engineering notes, consisting of a uniform pattern of small squares. The grid is intended for technical drawings or calculations.