

Engineering Notes

A large grid area for engineering notes, consisting of a uniform pattern of small squares. A solid black rectangle is positioned on the left side of the grid, partially overlapping its edge.

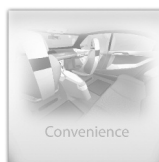
Introduction



Powertrain
Systems



Safety & Security
Systems



Convenience



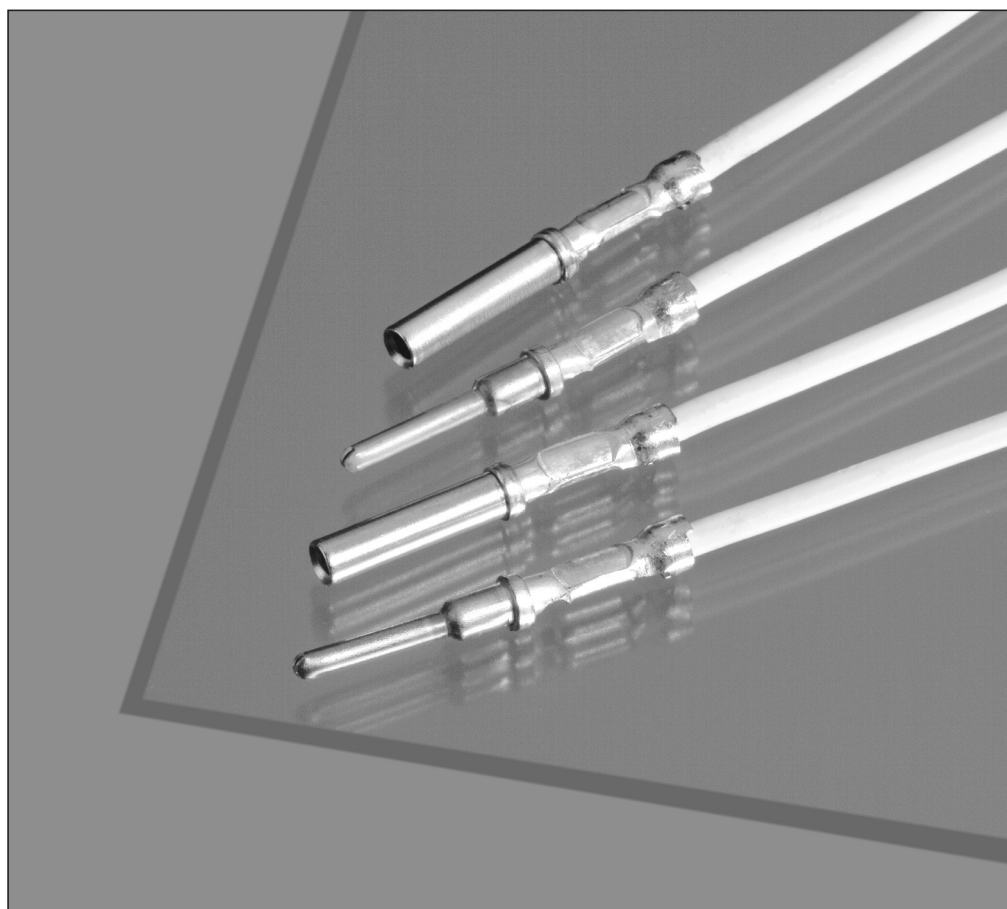
Driver
Information



Body & Chassis
Systems

Product Features

- 1.58 mm Pin and Socket System per MIL-C-39029
- Lanceless design
- Dual Beam Socket Contact
- Wire Size Range
0.5–2.0 mm² (20–14 AWG)
- Wire Insulation 1.3–3.7 mm
- Terminal Plating
Gold or Nickel
- Current Rating
up to 13 amps
- Vibration Performance
up to 35 G's
- RoHS and ELV compliant



The HDSF Size 16 Pin and Socket contacts system is a stamped and formed version of the screw machine MIL-C-39029 contacts.

The TE Connectivity Size 16 contact system offers a thicker and higher performance alloy base metal, providing the following superior benefits over most of the competitive stamped and formed size 16 contact systems.

1. Increased terminal/
beam strength
2. Greater resistance to
stress relaxation
3. Increased current carrying
ability due to lower T-Rise
(20 %)

Size 16 Terminal Selection Guide

The Terminal Summary Chart can be used as a quick guide to determine the part number for a particular application based on the following:

1) Insulation Barrel preference; 2) Plating preference; 3) Wire Size; and 4) Insulation Diameter.

Size 16 Terminal Summary Chart

	Terminal Part Number (Reeled)	Plating		Wire Size (AWG)	Insulation Diameter Range		Terminal Part Number (Loose-Piece)	Plating	
		Au	Ni		Inch	mm		Au	Ni
Pin with Insulation Barrel	1924463	-1	-3	20–18	0.050–0.107	1.27–2.72	1924579	-1	-3
Socket with Insulation Barrel	1924464	-1	-2	20–18	0.050–0.107	1.27–2.72	1924580	-1	-2
Pin with Insulation Barrel	638078	-1	-3	18–14*	0.089–0.131	2.26–3.33	776300	-1	-2
Socket with Insulation Barrel	776492	-1	-2	18–14*	0.089–0.131	2.26–3.33	776299	-1	-2
Pin without Insulation Barrel	638112	-1	-3	18–14	0.077–0.155	1.96–3.94	776298	-1	-2
Socket without Insulation Barrel	776491	-1	-2	18–14	0.077–0.155	1.96–3.94	776297	-1	-2

*) 14 AWG (SXL) wire not recommended for crimping on terminals with an Insulation Barrel.

The Terminal/Wire Selection for Connector Wire Seal Chart can be used as a guide to determine the following:

1) Wire Size and Insulation Type; 2) Nominal Insulation Diameter; 3) Recommended Terminal Part Number; and 4) Recommended Connector Wire Seal. For questions and concerns, please consult a TE Connectivity Product Specialist.

Size 16 Terminal / Wire Selection for Connector Wire Seal Chart

Wire Size (Insulation Type)	Insulation Diameter (Nominal)		Terminal Part Number (Reeled)						Connector Wire Seal	
			1924463	1924464	638078	776492	638112	776491	Standard Diameter (mm)	Reduced Diameter (mm)
	(mm)	(Inch)	(Pin)	(Socket)	(Pin)	(Socket)	(Pin)	(Socket)	2.18–3.67	1.30–2.54
0.5 mm ² (TXL)	1.78	0.070	✓	✓						✓
0.5 mm ² (GXL)	2.22	0.087	✓	✓						✓
0.5 mm ² (SXL)	2.55	0.100	✓	✓					✓	
20 AWG (TXL)	1.78	0.070	✓	✓						✓
20 AWG (GXL)	2.16	0.085	✓	✓						✓
20 AWG (SXL)	2.44	0.096	✓	✓					✓	
18 AWG (TXL)	1.98	0.078	✓	✓			✓	✓		✓
18 AWG (GXL)	2.34	0.092	✓	✓	✓	✓	✓	✓	✓	✓
18 AWG (SXL)	2.72	0.107			✓	✓	✓	✓	✓	
1.0 mm ² (TXL)	2.28	0.090					✓	✓	✓	✓
1.0 mm ² (GXL)	2.72	0.107			✓	✓	✓	✓	✓	
1.0 mm ² (SXL)	3.15	0.124			✓	✓	✓	✓	✓	
16 AWG (TXL)	2.24	0.088					✓	✓	✓	✓
16 AWG (GXL)	2.62	0.103			✓	✓	✓	✓	✓	
16 AWG (SXL)	3.05	0.120			✓	✓	✓	✓	✓	
2.0 mm ² (TXL)	2.58	0.102			✓	✓	✓	✓	✓	
2.0 mm ² (GXL)	3.02	0.119			✓	✓	✓	✓	✓	
2.0 mm ² (SXL)	3.65	0.144					✓	✓		
14 AWG (TXL)	2.62	0.103			✓	✓	✓	✓	✓	
14 AWG (GXL)	2.97	0.117			✓	✓	✓	✓	✓	
14 AWG (SXL)	3.58	0.141					✓	✓	✓	

Note: Insulation Diameter (Nominal) accuracy not guaranteed.

Receptacle Contacts (Sockets)

Technical Features

Contact Material:

Copper Alloy

Contact Finish:

Gold or Nickel

Wire Size Range:

0.5–2.0 mm² (20–14 AWG)

Insulation Diameter:

1.27–3.67 mm

Current Carrying Capacity:

13 amps

Temperature Range

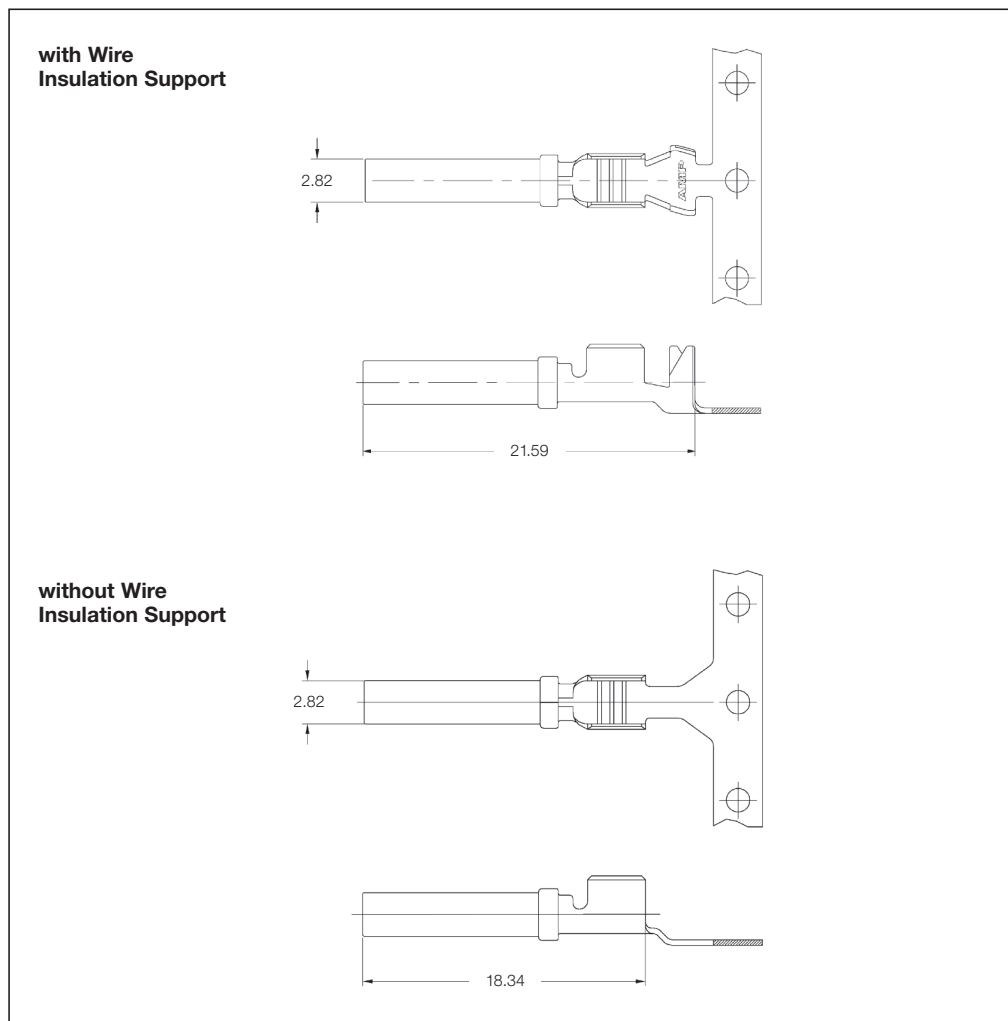
–40 °C to +125 °C

Product Specification:

108-2184

Application Specification:

114-13045



Receptacle Contacts with Wire Insulation Support

Wire Size Range		Insulation Diameter (mm)	Material and Finish	Part Numbers				Applicator	Hand Tool
(mm ²)	(AWG)			Strip Form	Package Quantity	Loose-Piece	Package Quantity		
0.5–0.8	20–18	1.27–2.72	Copper Alloy, Gold	1924464-1	4,000	1924580-1	1,000	See Application Specification 114-13045	
			Copper Alloy, Nickel	1924464-2	4,000	1924580-2	1,000		
0.8–2.0	18–14	2.26–3.33	Copper Alloy, Gold	776492-1	4,000	776299-1	1,000		
			Copper Alloy, Nickel	776492-2	4,000	776299-2	1,000		

Note: All Part Numbers are RoHS and ELV compliant.

Receptacle Contacts without Wire Insulation Support

Wire Size Range		Insulation Diameter (mm)	Material and Finish	Part Numbers				Applicator	Hand Tool
(mm ²)	(AWG)			Strip Form	Package Quantity	Loose-Piece	Package Quantity		
0.8–2.0	18–14	2.18–3.67	Copper Alloy, Gold	776491-1	4,000	776297-1	1,000	See Application Specification 114-13045	
			Copper Alloy, Nickel	776491-2	4,000	776297-2	1,000		

Note: All Part Numbers are RoHS and ELV compliant.

Pin Contacts

Technical Features

Contact Material:

Copper Alloy

Contact Finish:

Gold or Nickel

Wire Size Range:

0.5–2.0 mm² (20–14 AWG)

Insulation Diameter:

1.27–3.67 mm

Current Carrying Capacity:

13 amps

Temperature Range

–40 °C to +125 °C

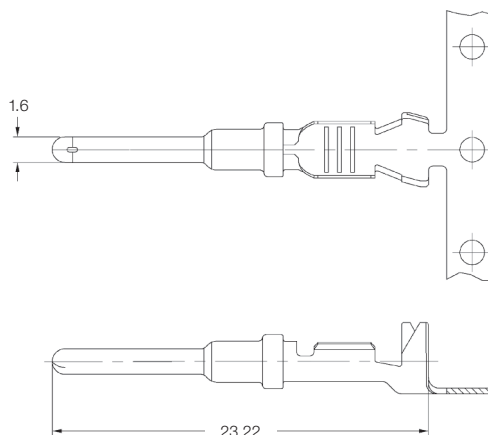
Product Specification:

108-2184

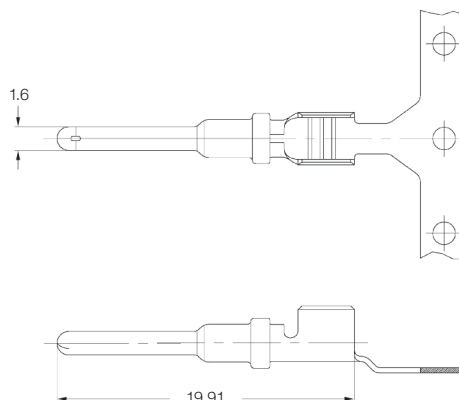
Application Specification:

114-13045

**with Wire
Insulation Support**



**without Wire
Insulation Support**



Pin Contacts with Wire Insulation Support

Wire Size Range (mm ²) (AWG)	Insulation Diameter (mm)	Material and Finish	Part Numbers				Applicator	Hand Tool
			Strip Form	Package Quantity	Loose-Piece	Package Quantity		
0.5–0.8 20–18	1.27–2.72	Copper Alloy, Gold	1924463-1	4,000	1924579-1	1,000	See Application Specification 114-13045	
		Copper Alloy, Nickel	1924463-3	4,000	1924579-3	1,000		
0.8–2.0 18–14	2.26–3.33	Copper Alloy, Gold	638078-1	4,000	776300-1	1,000		
		Copper Alloy, Nickel	638078-3	4,000	776300-2	1,000		

Note: All Part Numbers are RoHS and ELV compliant.

Pin Contacts without Wire Insulation Support

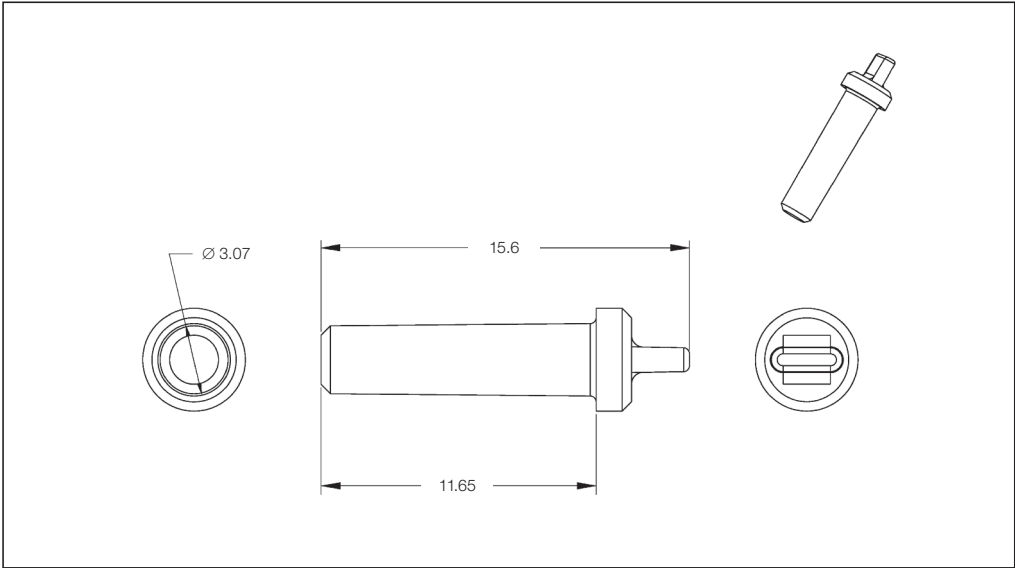
Wire Size Range (mm ²) (AWG)	Insulation Diameter (mm)	Material and Finish	Part Numbers				Applicator	Hand Tool
			Strip Form	Package Quantity	Loose-Piece	Package Quantity		
0.8–2.0 18–14	2.18–3.67	Copper Alloy, Gold	638112-1	4,000	776298-1	1,000	See Application Specification 114-13045	
		Copper Alloy, Nickel	638112-3	4,000	776298-2	1,000		

Note: All Part Numbers are RoHS and ELV compliant.

Cavity Plugs for Unsealed Cavity

Technical Features

- **Material:**
Glass reinforced PBT
- **Resistant to a wide range of chemicals**
- **UL 94-HB rated**
- **RoHS and ELV compliant**

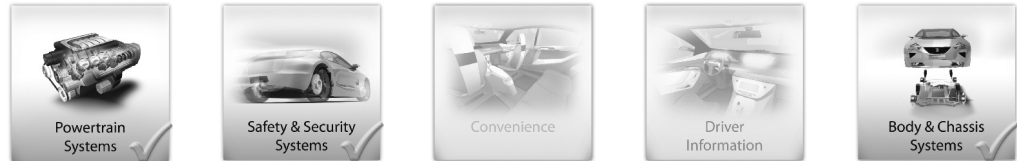


	Contact Cavity Size		Color	Part Number	Package Quantity
	(mm)	(AWG)			
Standard Diameter	3.07	16	Yellow	776363-1	10,000
Reduced Diameter	2.55	20	White	776364-1	10,000

Engineering Notes

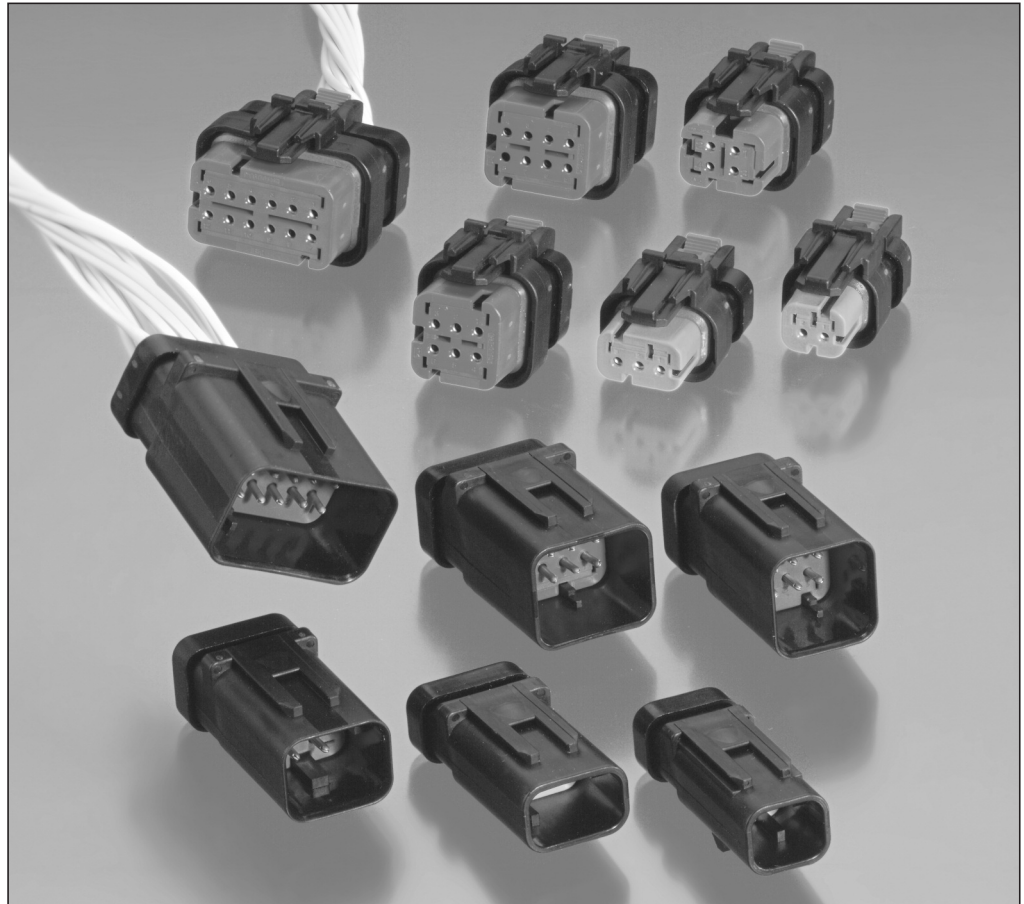
A large grid area for engineering notes, consisting of a uniform pattern of small squares. A solid black rectangular block is positioned on the left side of the grid, partially obscuring it.

Introduction



Product Features

- Integral PLR provides primary latch reinforcement with no additional assembly
- Keyed / polarized, prevents mismatching
- Integral CPA protects against accidental unlocking
- Attachment feature on pin housing provides connector clip mounting
- Resistant to a wide range of chemicals
- RoHS and ELV compliant



The AMPSEAL 16 Receptacle and Pin housings come fully assembled, offering a one-piece approach for applied cost savings. Receptacle housing assemblies consist of the plug housing with both interface and wire seals, wire seal cover, PLR & CPA.

Thermoplastic housings (–40 °C to +125 °C rated) and silicone seals allow connectors to withstand extreme temperatures and moisture.

Pin housing assemblies are comprised of cap housing with wire seal, wire seal cover, and PLR. The single latch design with anti-overstress feature is only one of many additional features. Both color coding and physical keying prevents mismatching when multiple housings of the same position size are used in the application.

1-Row Sealed Receptacle (Plug) Housings

Technical Features

No. of Positions:

2 (1×2) Position Assembly

Housing Material:

Glass Reinforced PBT

Wire Size Range:

2.18–3.67 mm
1.30–2.54 mm
(with reduced diameter wire seal)

Product Specification:

108-2184

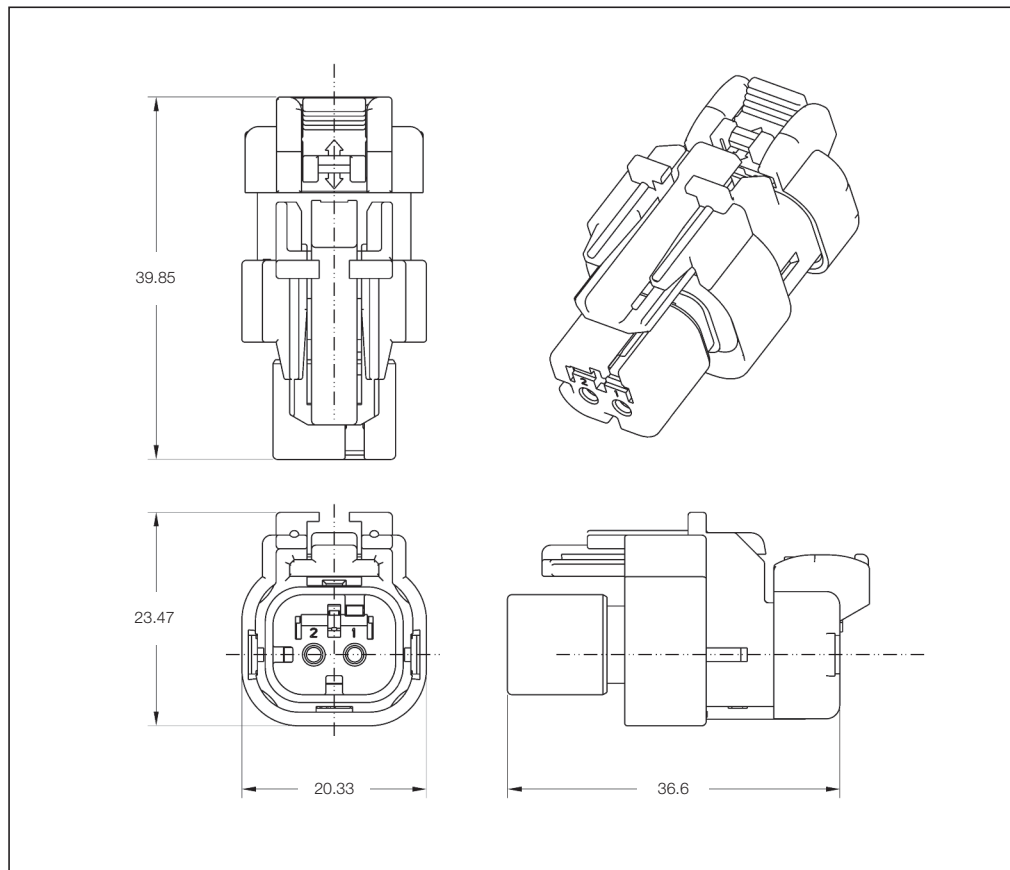
Application Specification:

114-13065

■ **UL 94-HB rated**

■ **Resistant to a wide range of chemicals**

■ **RoHS and ELV compliant**



Sealed Receptacle Housings 1-Row with Standard Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Receptacle (Plug) Housing	Mating Pin (Cap) Housing
2	Red	Key A	776427-1	776428-1
				1717672-1
	Gray	Key B	776427-2	776428-2
				1717672-2
	Yellow	Key C	776427-3	776428-3
				1717672-3
	Green	Key D	776427-4	776428-4
				1717672-4

Sealed Receptacle Housings 1-Row with Reduced Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Receptacle (Plug) Housing	Mating Pin (Cap) Housing
2	Red	Key A	776522-1	776534-1
	Gray	Key B	776522-2	776534-2
	Yellow	Key C	776522-3	776534-3
	Green	Key D	776522-4	776534-4

1-Row Sealed Receptacle (Plug) Housings (continued)

Technical Features

No. of Positions:

3 (1×3) Position Assembly

Housing Material:

Glass Reinforced PBT

Wire Size Range:

2.18–3.67 mm
1.30–2.54 mm
(with reduced diameter wire seal)

Product Specification:

108-2184

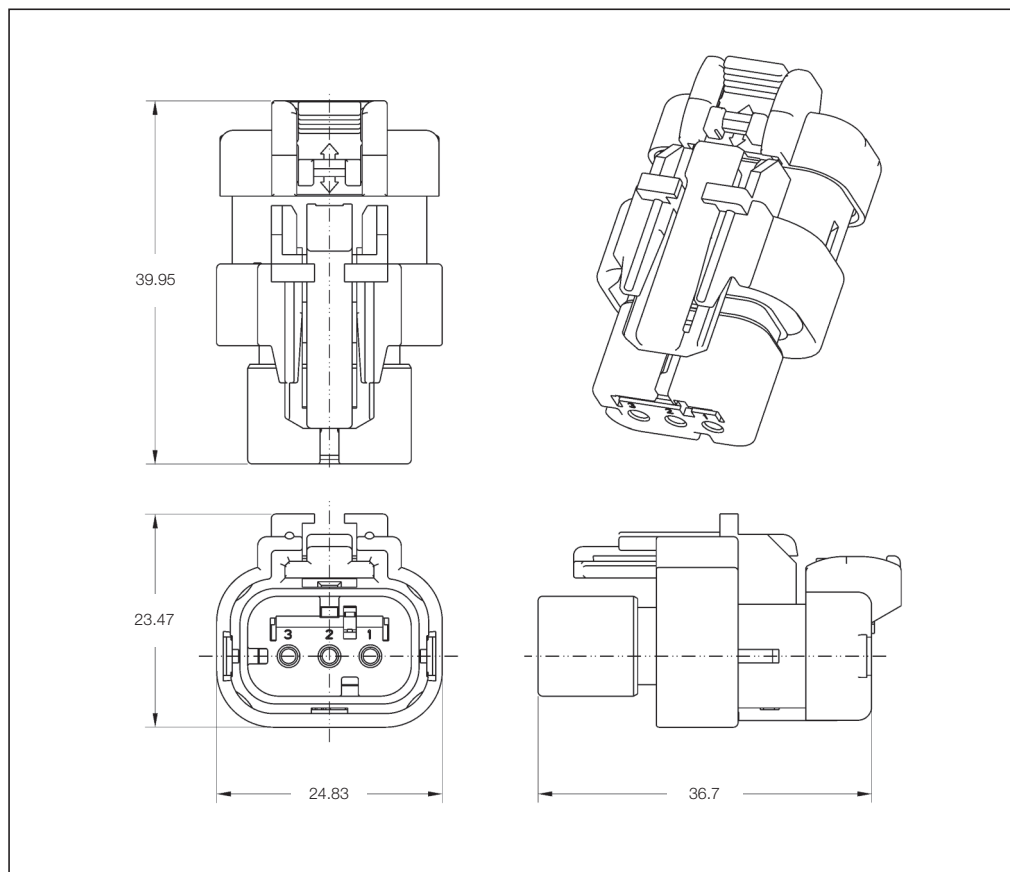
Application Specification:

114-13065

■ **UL 94-HB rated**

■ **Resistant to a wide range of chemicals**

■ **RoHS and ELV compliant**



Sealed Receptacle Housings 1-Row with Standard Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Receptacle (Plug) Housing	Mating Pin (Cap) Housing
3	Red	Key A	776429-1	776430-1 1717673-1
	Gray	Key B	776429-2	776430-2 1717673-2
	Yellow	Key C	776429-3	776430-3 1717673-3
	Green	Key D	776429-4	776430-4 1717673-4

Sealed Receptacle Housings 1-Row with Reduced Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Receptacle (Plug) Housing	Mating Pin (Cap) Housing
3	Red	Key A	776523-1	776535-1
	Gray	Key B	776523-2	776535-2
	Yellow	Key C	776523-3	776535-3
	Green	Key D	776523-4	776535-4

2-Row Sealed Receptacle (Plug) Housings

Technical Features

No. of Positions:

4 (2×2) Position Assembly

Housing Material:

Glass Reinforced PBT

Wire Size Range:

2.18–3.67 mm
1.30–2.54 mm
(with reduced diameter wire seal)

Product Specification:

108-2184

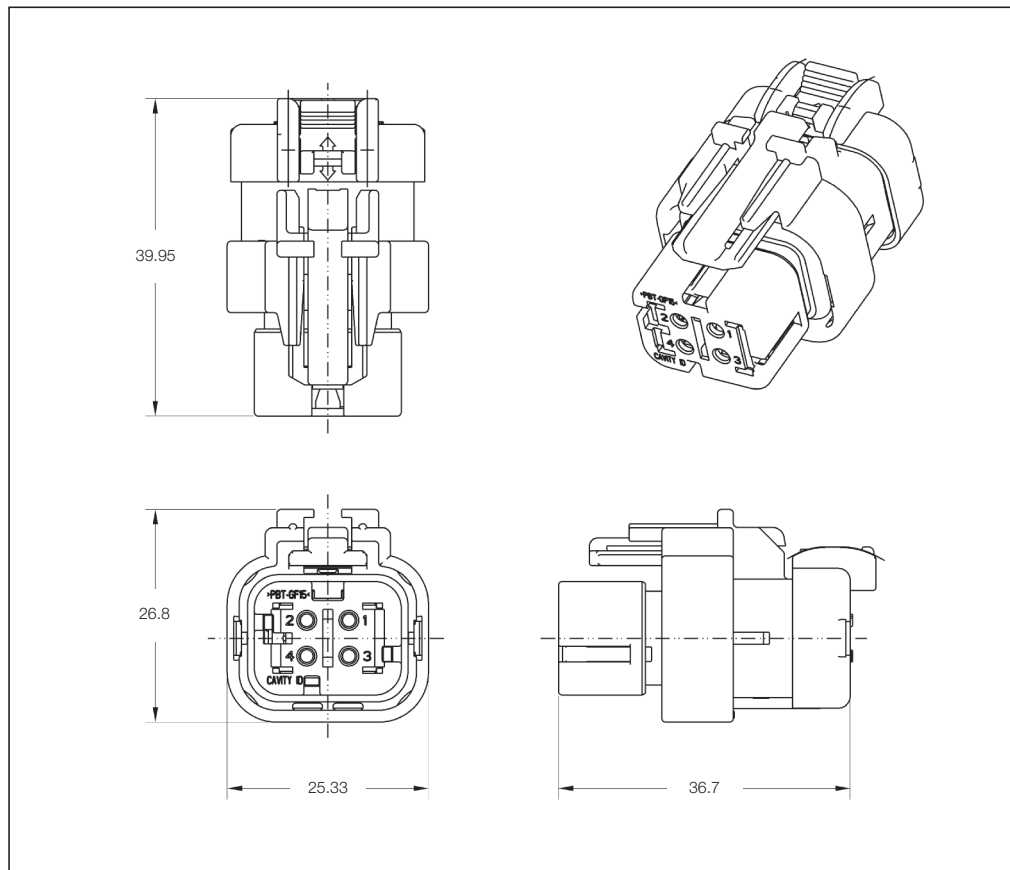
Application Specification:

114-13065

■ **UL 94-HB rated**

■ **Resistant to a wide range of chemicals**

■ **RoHS and ELV compliant**



Sealed Receptacle Housings 2-Row with Standard Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Receptacle (Plug) Housing	Mating Pin (Cap) Housing
4	Red	Key A	776487-1	776488-1 1717674-1
	Gray	Key B	776487-2	776488-2 1717674-2
	Yellow	Key C	776487-3	776488-3 1717674-3
	Green	Key D	776487-4	776488-4 1717674-4

Sealed Receptacle Housings 2-Row with Reduced Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Receptacle (Plug) Housing	Mating Pin (Cap) Housing
4	Red	Key A	776524-1	776536-1
	Gray	Key B	776524-2	776536-2
	Yellow	Key C	776524-3	776536-3
	Green	Key D	776524-4	776536-4

2-Row Sealed Receptacle (Plug) Housings (continued)

Technical Features

No. of Positions:

6 (2×3) Position Assembly

Housing Material:

Glass Reinforced PBT

Wire Size Range:

2.18–3.67 mm
1.30–2.54 mm
(with reduced diameter wire seal)

Product Specification:

108-2184

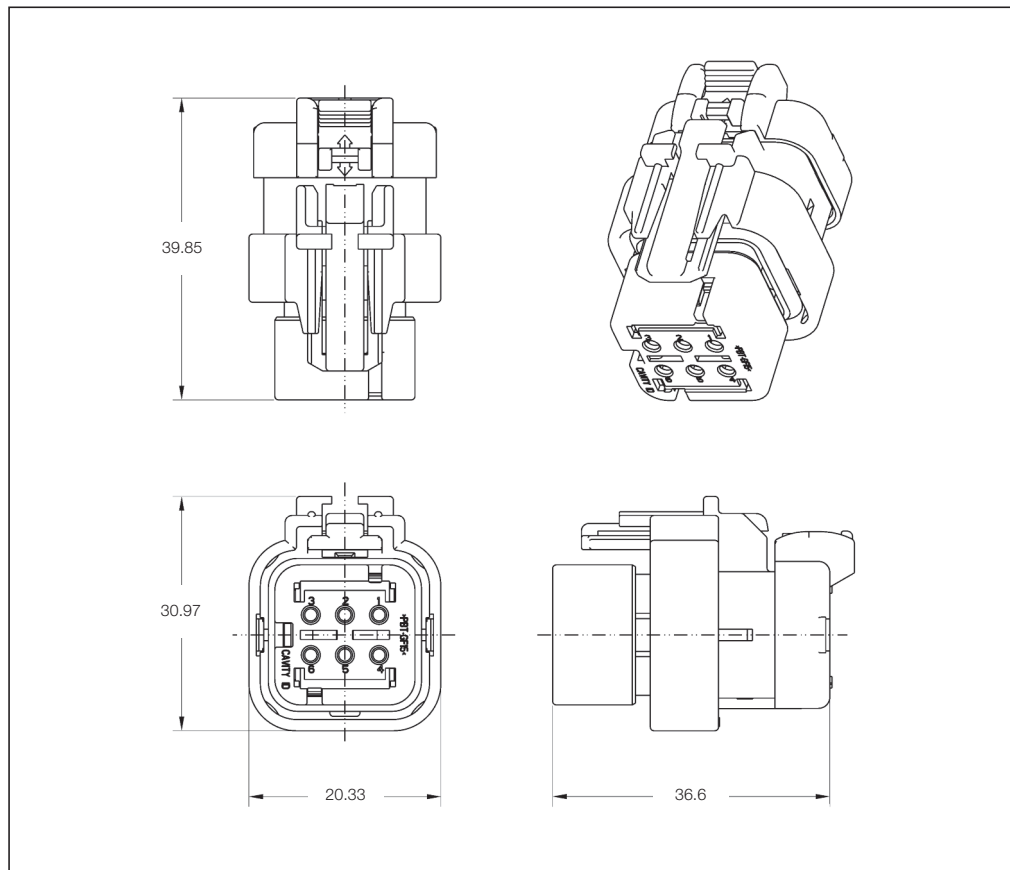
Application Specification:

114-13065

■ **UL 94-HB rated**

■ **Resistant to a wide range of chemicals**

■ **RoHS and ELV compliant**



Sealed Receptacle Housings 2-Row with Standard Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Receptacle (Plug) Housing	Mating Pin (Cap) Housing
6	Red	Key A	776433-1	776434-1
				1717675-1
	Gray	Key B	776433-2	776434-2
				1717675-2
	Yellow	Key C	776433-3	776434-3
				1717675-3

Sealed Receptacle Housings 2-Row with Reduced Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Receptacle (Plug) Housing	Mating Pin (Cap) Housing
6	Red	Key A	776531-1	776537-1
				1717975-1
	Gray	Key B	776531-2	776537-2
				1717975-2
	Yellow	Key C	776531-3	776537-3
				1717975-3

2-Row Sealed Receptacle (Plug) Housings

Technical Features

No. of Positions:

8 (2×4) Position Assembly

Housing Material:

Glass Reinforced PBT

Wire Size Range:

2.18–3.67 mm
1.30–2.54 mm
(with reduced diameter wire seal)

Product Specification:

108-2184

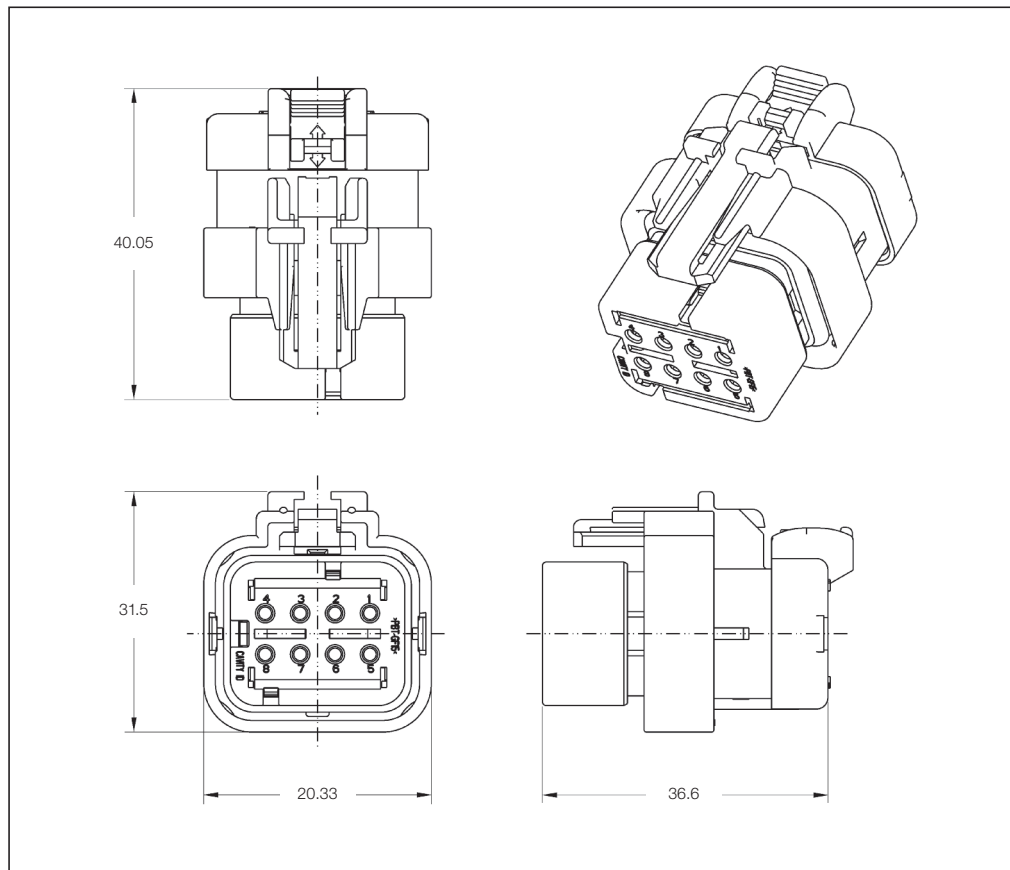
Application Specification:

114-13065

■ **UL 94-HB rated**

■ **Resistant to a wide range of chemicals**

■ **RoHS and ELV compliant**



Sealed Receptacle Housings 2-Row with Standard Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Receptacle (Plug) Housing	Mating Pin (Cap) Housing
8	Red	Key A	776494-1	776495-1 1717676-1
	Gray	Key B	776494-2	776495-2 1717676-2
	Yellow	Key C	776494-3	776495-3 1717676-3
	Green	Key D	776494-4	776495-4 1717676-4

Sealed Receptacle Housings 2-Row with Reduced Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Receptacle (Plug) Housing	Mating Pin (Cap) Housing
8	Red	Key A	776532-1	776538-1
	Gray	Key B	776532-2	776538-2
	Yellow	Key C	776532-3	776538-3
	Green	Key D	776532-4	776538-4

2-Row Sealed Receptacle (Plug) Housings (continued)

Technical Features

No. of Positions:

12 (2×6) Position Assembly

Housing Material:

Glass Reinforced PBT

Wire Size Range:

2.18–3.67 mm
1.30–2.54 mm
(with reduced diameter wire seal)

Product Specification:

108-2184

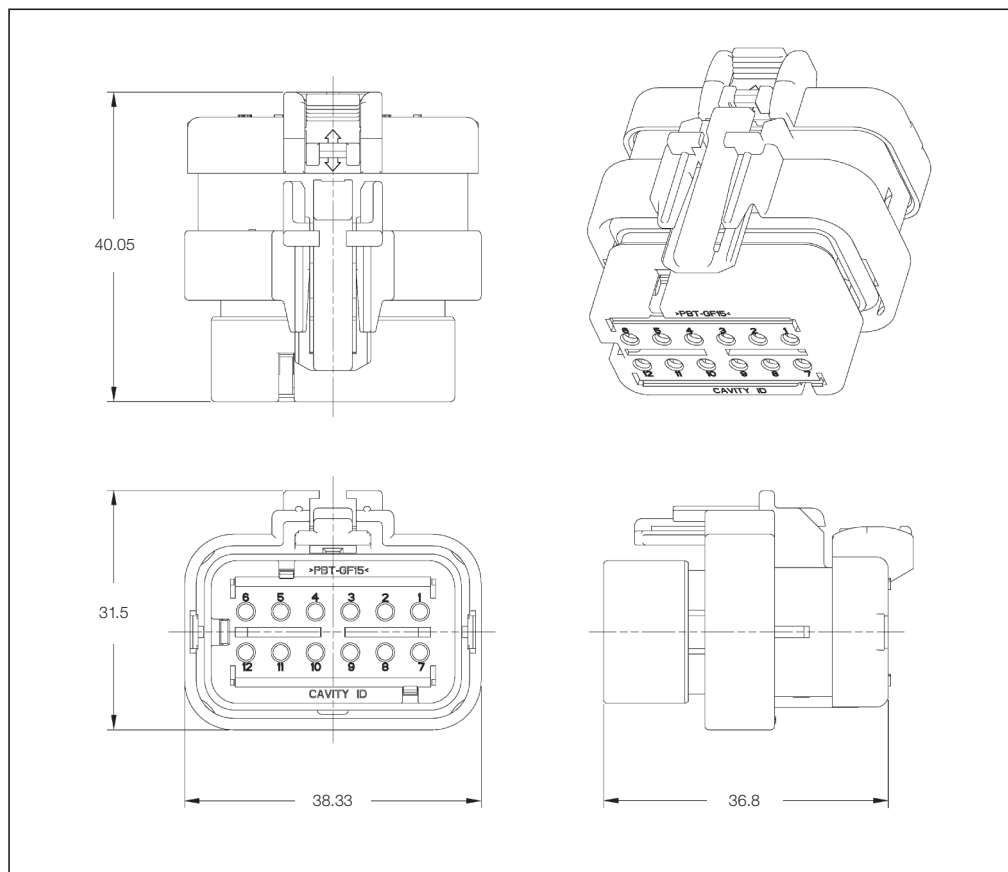
Application Specification:

114-13065

■ **UL 94-HB rated**

■ **Resistant to a wide range of chemicals**

■ **RoHS and ELV compliant**



Sealed Receptacle Housings 2-Row with Standard Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Receptacle (Plug) Housing	Mating Pin (Cap) Housing
12	Red	Key A	776437-1	776538-1
				1717677-1
	Gray	Key B	776437-2	776538-2
				1717677-2
	Yellow	Key C	776437-3	776538-3
				1717677-3
	Green	Key D	776437-4	776538-4
				1717677-4

Sealed Receptacle Housings 2-Row with Reduced Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Receptacle (Plug) Housing	Mating Pin (Cap) Housing
12	Red	Key A	776533-1	776539-1
				1717934-1
	Gray	Key B	776533-2	776539-2
				1717934-2
	Yellow	Key C	776533-3	776539-3
				1717934-3
	Green	Key D	776533-4	776539-4
				1717934-4

1-Row Sealed Pin (Cap) Housings

Technical Features

No. of Positions:

2 (1×2) Position Assembly

Housing Material:

Glass Reinforced PBT

Wire Size Range:

2.18–3.67 mm
1.30–2.54 mm
(with reduced diameter wire seal)

Product Specification:

108-2184

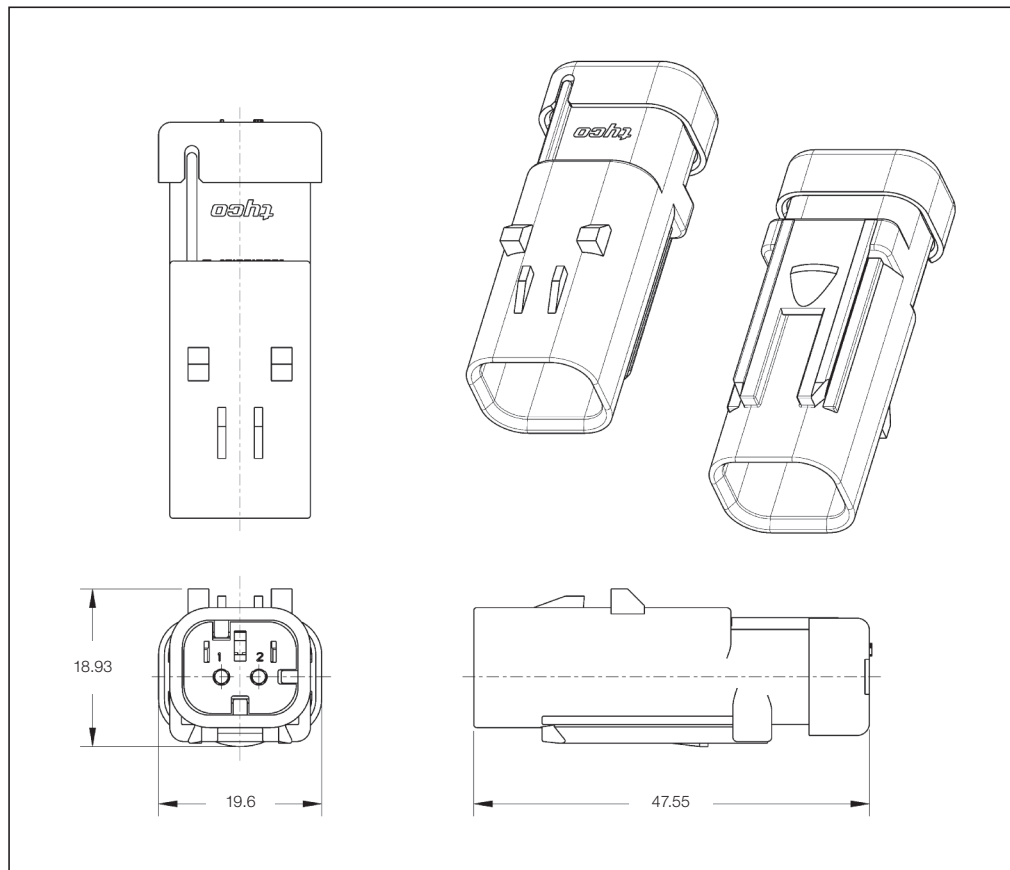
Application Specification:

114-13065

■ UL 94-HB rated

■ Resistant to a wide range
of chemicals

■ RoHS and ELV compliant



Sealed Pin Housings 1-Row with Standard Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Pin (Cap) Housing	Mating Receptacle (Plug) Housing
2	Red	Key A	776428-1	776427-1
	Gray	Key B	776428-2	776427-2
	Yellow	Key C	776428-3	776427-3
	Green	Key D	776428-4	776427-4

Sealed Pin Housings 1-Row with Reduced Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Pin (Cap) Housing	Mating Receptacle (Plug) Housing
2	Red	Key A	776534-1	776522-1
	Gray	Key B	776534-2	776522-2
	Yellow	Key C	776534-3	776522-3
	Green	Key D	776534-4	776522-4

1-Row Sealed Pin (Cap) Housings – Reversed Type

Technical Features

No. of Positions:
2 (1×2) Position Assembly

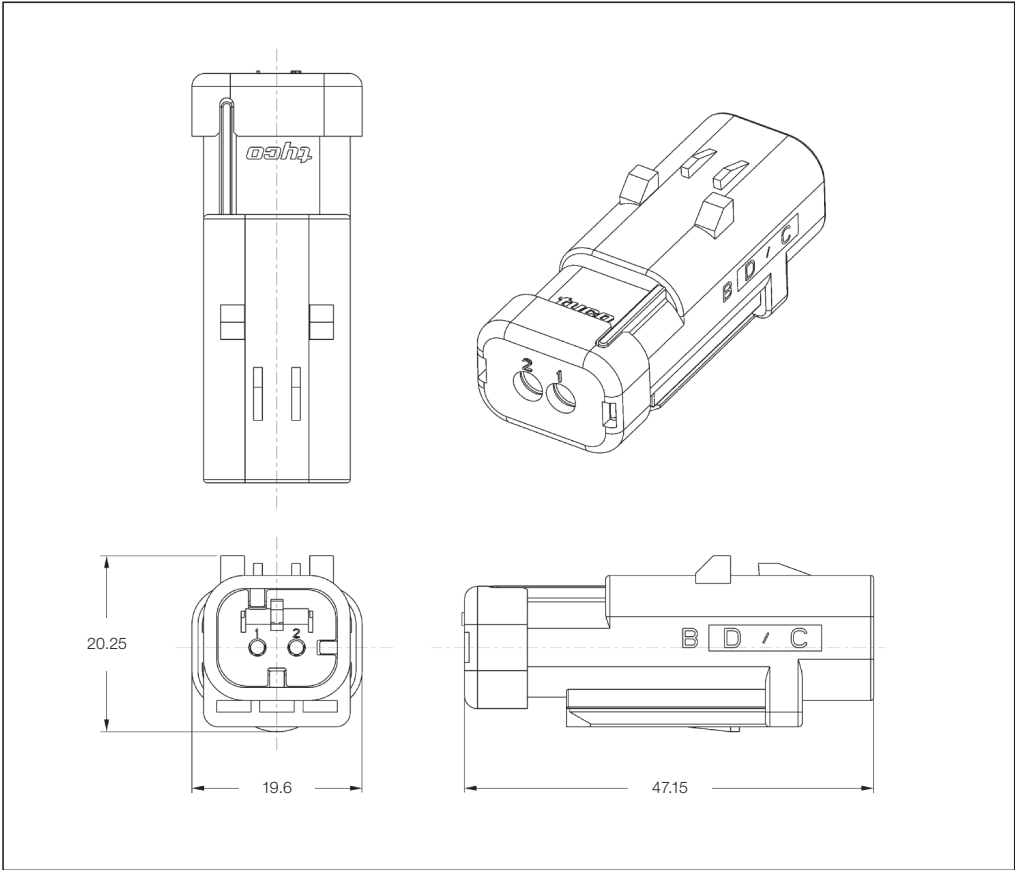
Housing Material:
Glass Reinforced PBT

Wire Size Range:
2.18–3.67 mm

Product Specification:
108-2184

Application Specification:
114-13065

- UL 94-HB rated
- Resistant to a wide range of chemicals
- RoHS and ELV compliant



Sealed Pin Housings 1-Row – Reversed Mounting Feature

No. of Positions	PLR Color	Keying	Part Numbers	
			Pin (Cap) Housing	Mating Receptacle (Plug) Housing
2	Red	Key A	1717672-1	776427-1
	Gray	Key B	1717672-2	776427-2
	Yellow	Key C	1717672-3	776427-3
	Green	Key D	1717672-4	776427-4

1-Row Sealed Pin (Cap) Housings

Technical Features

No. of Positions:

3 (1×3) Position Assembly

Housing Material:

Glass Reinforced PBT

Wire Size Range:

2.18–3.67 mm
1.30–2.54 mm
(with reduced diameter wire seal)

Product Specification:

108-2184

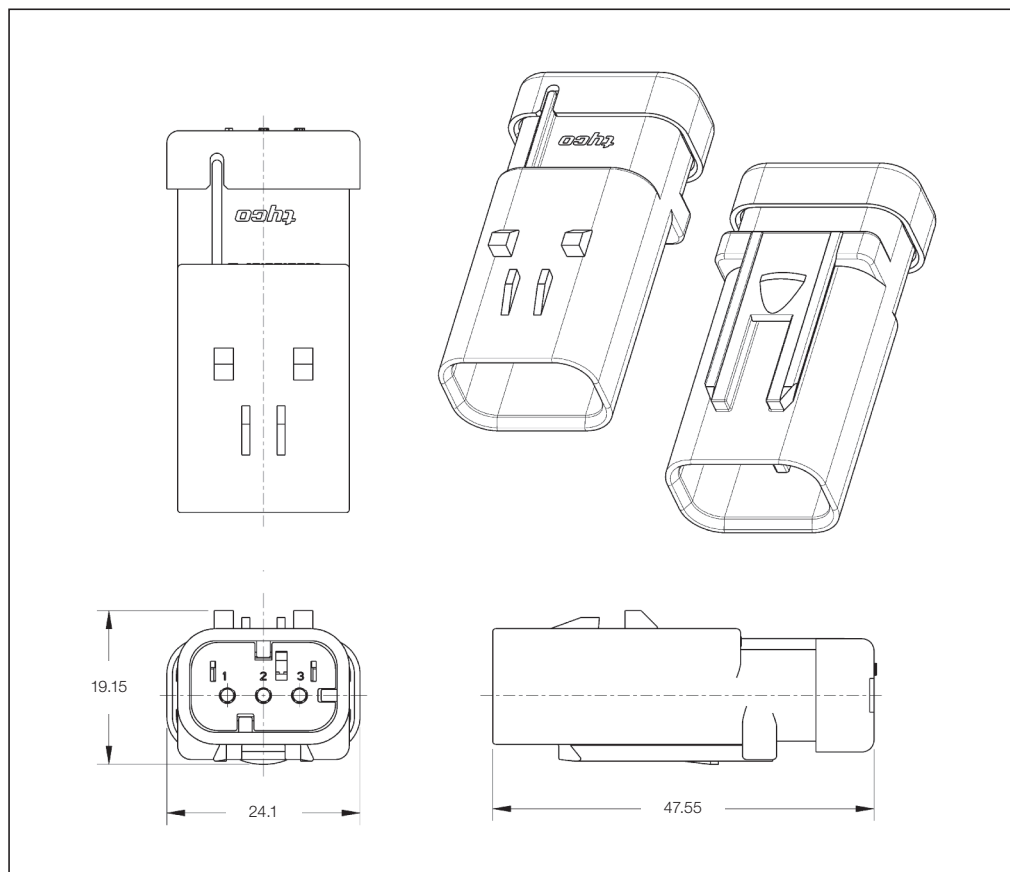
Application Specification:

114-13065

■ UL 94-HB rated

■ Resistant to a wide range
of chemicals

■ RoHS and ELV compliant



Sealed Pin Housings 1-Row with Standard Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Pin (Cap) Housing	Mating Receptacle (Plug) Housing
3	Red	Key A	776430-1	776429-1
	Gray	Key B	776430-2	776429-2
	Yellow	Key C	776430-3	776429-3
	Green	Key D	776430-4	776429-4

Sealed Pin Housings 1-Row with Reduced Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Pin (Cap) Housing	Mating Receptacle (Plug) Housing
3	Red	Key A	776535-1	776523-1
	Gray	Key B	776535-2	776523-2
	Yellow	Key C	776535-3	776523-3
	Green	Key D	776535-4	776523-4

1-Row Sealed Pin (Cap) Housings – Reversed Type

Technical Features

No. of Positions:
3 (1×3) Position Assembly

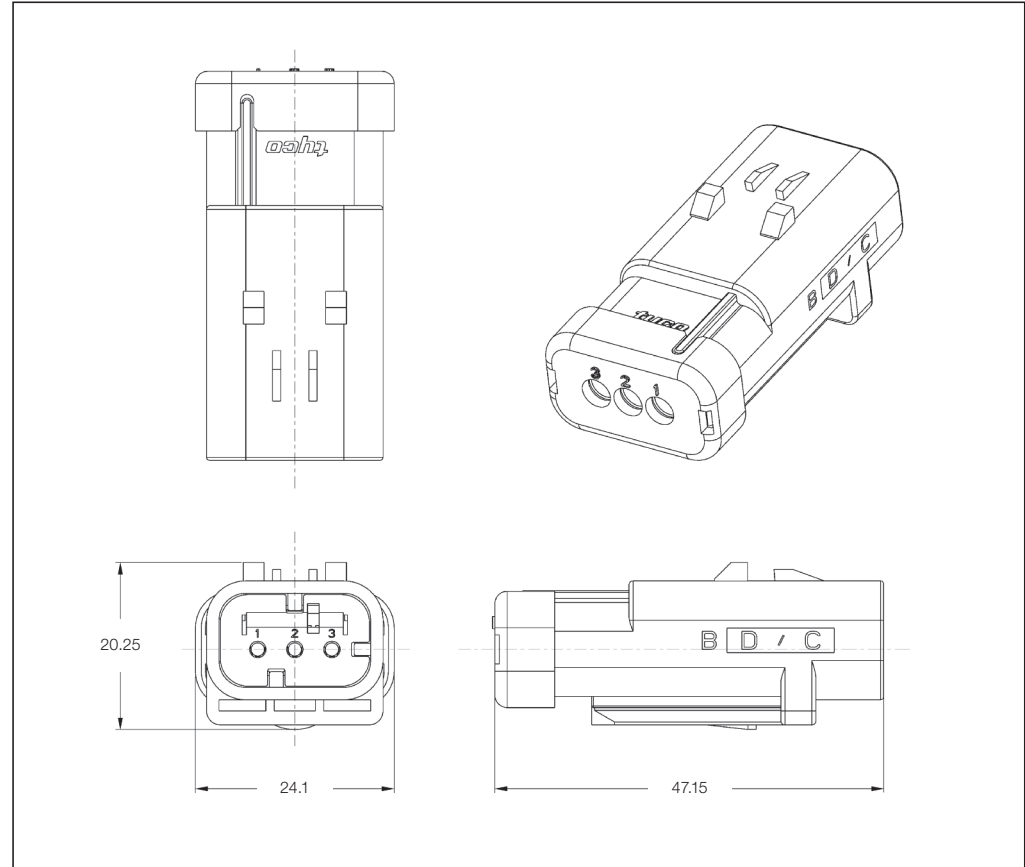
Housing Material:
Glass Reinforced PBT

Wire Size Range:
2.18–3.67 mm

Product Specification:
108-2184

Application Specification:
114-13065

- UL 94-HB rated
- Resistant to a wide range of chemicals
- RoHS and ELV compliant



Sealed Pin Housings 1-Row – Reversed Mounting Feature

No. of Positions	PLR Color	Keying	Part Numbers	
			Pin (Cap) Housing	Mating Receptacle (Plug) Housing
3	Red	Key A	1717673-1	776429-1
	Gray	Key B	1717673-2	776429-2
	Yellow	Key C	1717673-3	776429-3
	Green	Key D	1717673-4	776429-4

2-Row Sealed Pin (Cap) Housings

Technical Features

No. of Positions:

4 (2×2) Position Assembly

Housing Material:

Glass Reinforced PBT

Wire Size Range:

2.18–3.67 mm
1.30–2.54 mm
(with reduced diameter wire seal)

Product Specification:

108-2184

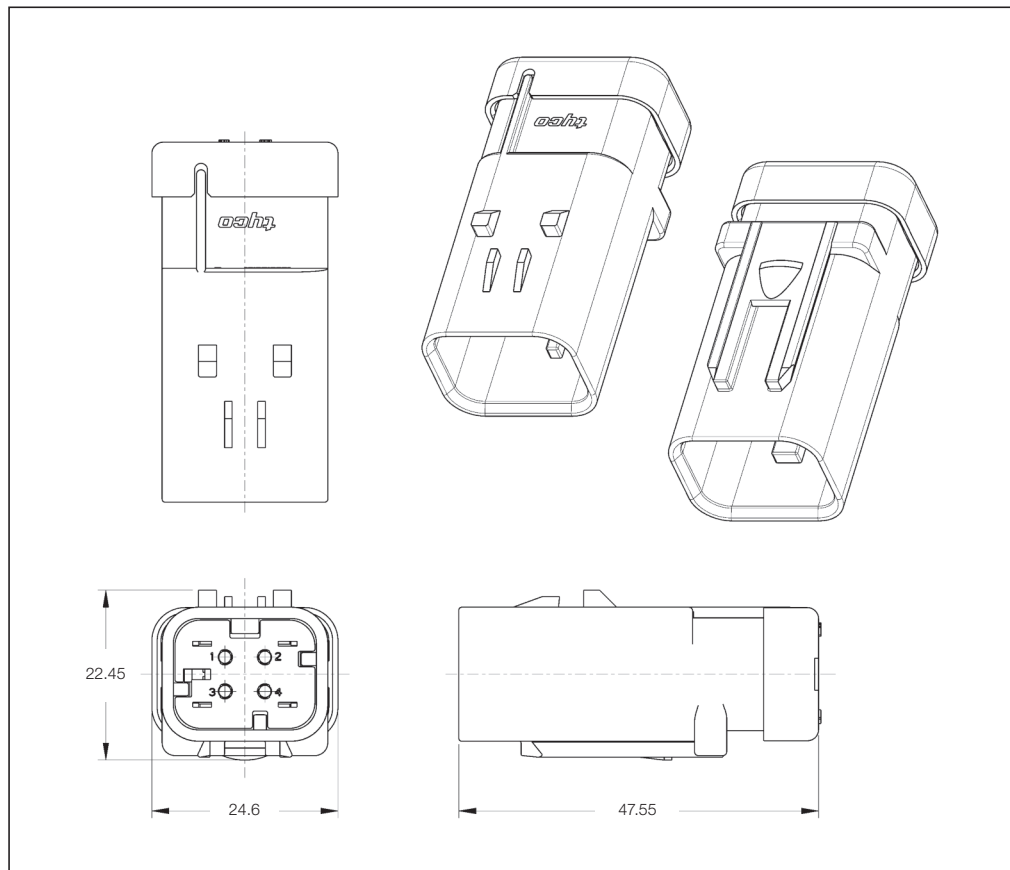
Application Specification:

114-13065

■ **UL 94-HB rated**

■ **Resistant to a wide range of chemicals**

■ **RoHS and ELV compliant**



Sealed Pin Housings 2-Row with Standard Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Pin (Cap) Housing	Mating Receptacle (Plug) Housing
4	Red	Key A	776488-1	776487-1
	Gray	Key B	776488-2	776487-2
	Yellow	Key C	776488-3	776487-3
	Green	Key D	776488-4	776487-4

Sealed Pin Housings 2-Row with Reduced Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Pin (Cap) Housing	Mating Receptacle (Plug) Housing
4	Red	Key A	776536-1	776524-1
	Gray	Key B	776536-2	776524-2
	Yellow	Key C	776536-3	776524-3
	Green	Key D	776536-4	776524-4

2-Row Sealed Pin (Cap) Housings – Reversed Type

Technical Features

No. of Positions:
4 (2×2) Position Assembly

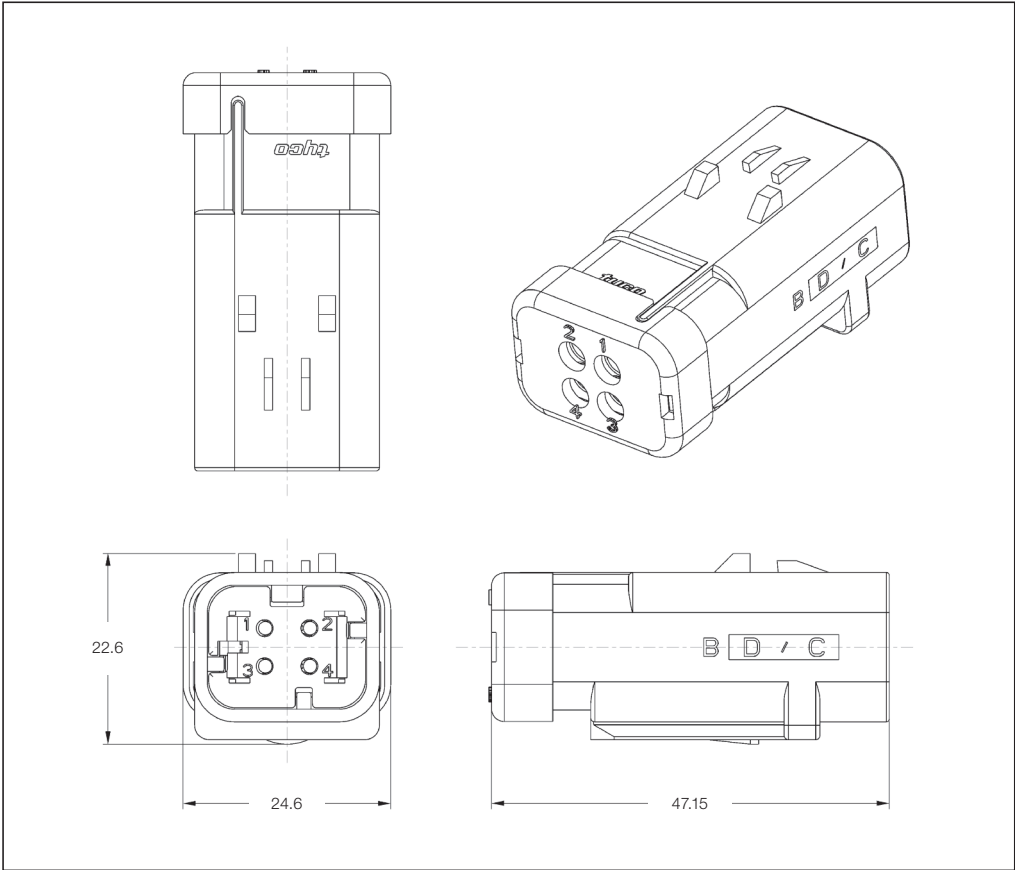
Housing Material:
Glass Reinforced PBT

Wire Size Range:
2.18–3.67 mm

Product Specification:
108-2184

Application Specification:
114-13065

- UL 94-HB rated
- Resistant to a wide range of chemicals
- RoHS and ELV compliant



Sealed Pin Housings 2-Row – Reversed Mounting Feature

No. of Positions	PLR Color	Keying	Part Numbers	
			Pin (Cap) Housing	Mating Receptacle (Plug) Housing
4	Red	Key A	1717674-1	776487-1
	Gray	Key B	1717674-2	776487-2
	Yellow	Key C	1717674-3	776487-3
	Green	Key D	1717674-4	776487-4

2-Row Sealed Pin (Cap) Housings

Technical Features

No. of Positions:

6 (2×3) Position Assembly

Housing Material:

Glass Reinforced PBT

Wire Size Range:

2.18–3.67 mm
1.30–2.54 mm
(with reduced diameter wire seal)

Product Specification:

108-2184

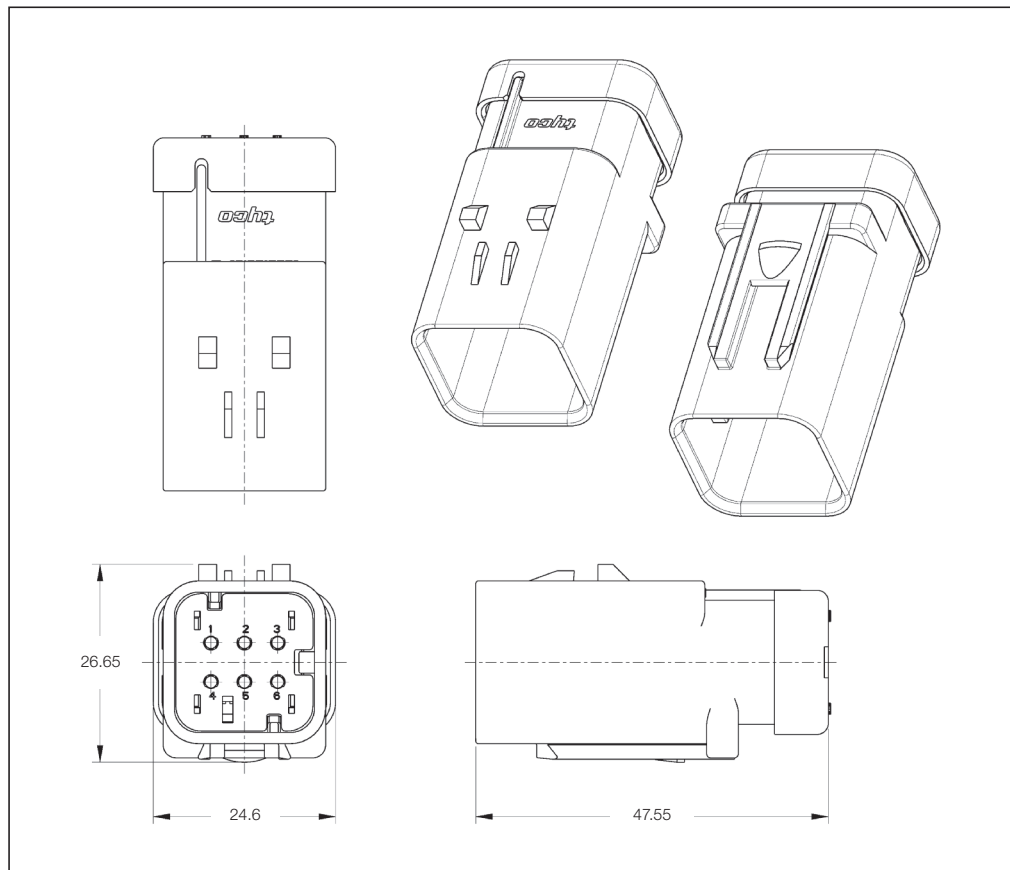
Application Specification:

114-13065

■ **UL 94-HB rated**

■ **Resistant to a wide range of chemicals**

■ **RoHS and ELV compliant**



Sealed Pin Housings 2-Row with Standard Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Pin (Cap) Housing	Mating Receptacle (Plug) Housing
6	Red	Key A	776434-1	776433-1
	Gray	Key B	776434-2	776433-2
	Yellow	Key C	776434-3	776433-3

Sealed Pin Housings 2-Row with Reduced Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Pin (Cap) Housing	Mating Receptacle (Plug) Housing
6	Red	Key A	776537-1	776531-1
	Gray	Key B	776537-2	776531-2
	Yellow	Key C	776537-3	776531-3

2-Row Sealed Pin (Cap) Housings – Reversed Type

Technical Features

No. of Positions:
6 (2×3) Position Assembly

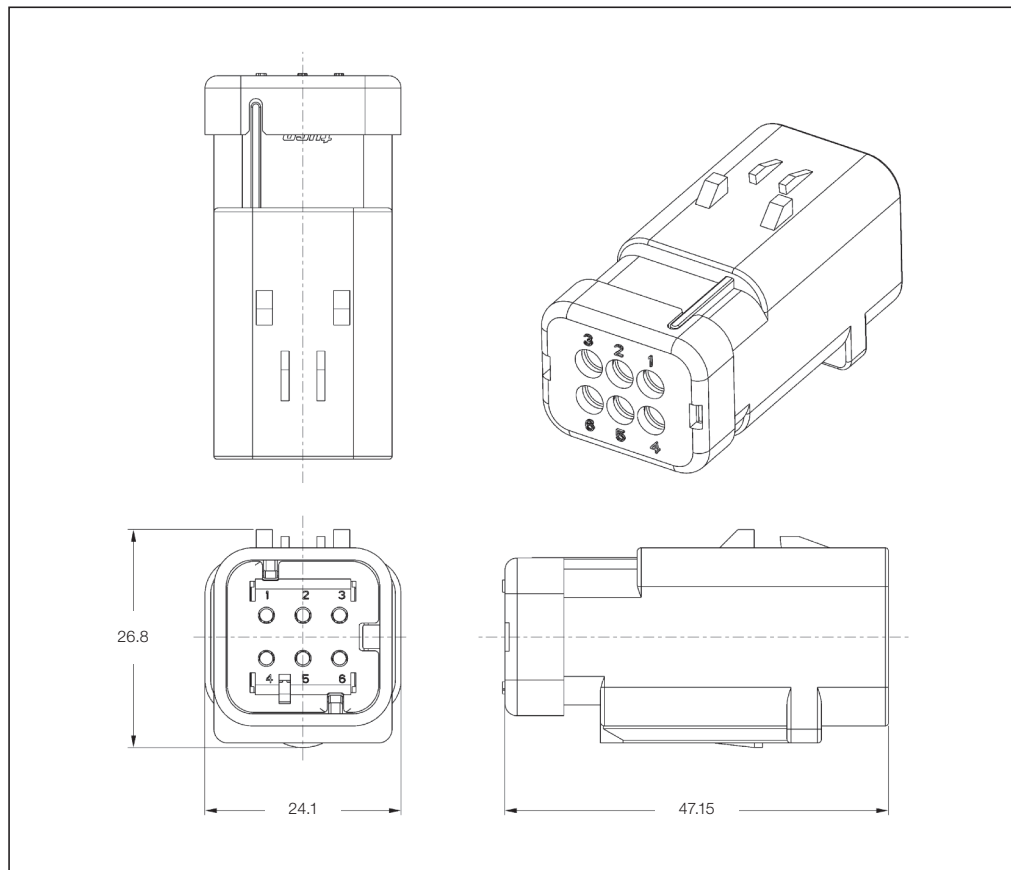
Housing Material:
Glass Reinforced PBT

Wire Size Range:
2.18–3.67 mm
1.30–2.54 mm
(with reduced diameter wire seal)

Product Specification:
108-2184

Application Specification:
114-13065

- UL 94-HB rated
- Resistant to a wide range of chemicals
- RoHS and ELV compliant



Sealed Pin Housings 2-Row – Reversed Mounting Feature

No. of Positions	PLR Color	Keying	Part Numbers	
			Pin (Cap) Housing	Mating Receptacle (Plug) Housing
6	Red	Key A	1717675-1	776433-1
	Gray	Key B	1717675-2	776433-2
	Yellow	Key C	1717675-3	776433-3

Sealed Pin Housings 2-Row – Reversed Type with Reduced Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Pin (Cap) Housing	Mating Receptacle (Plug) Housing
6	Red	Key A	1717975-1	776531-1
	Gray	Key B	1717975-2	776531-2
	Yellow	Key C	1717975-3	776531-3

2-Row Sealed Pin (Cap) Housings

Technical Features

No. of Positions:
8 (2×4) Position Assembly

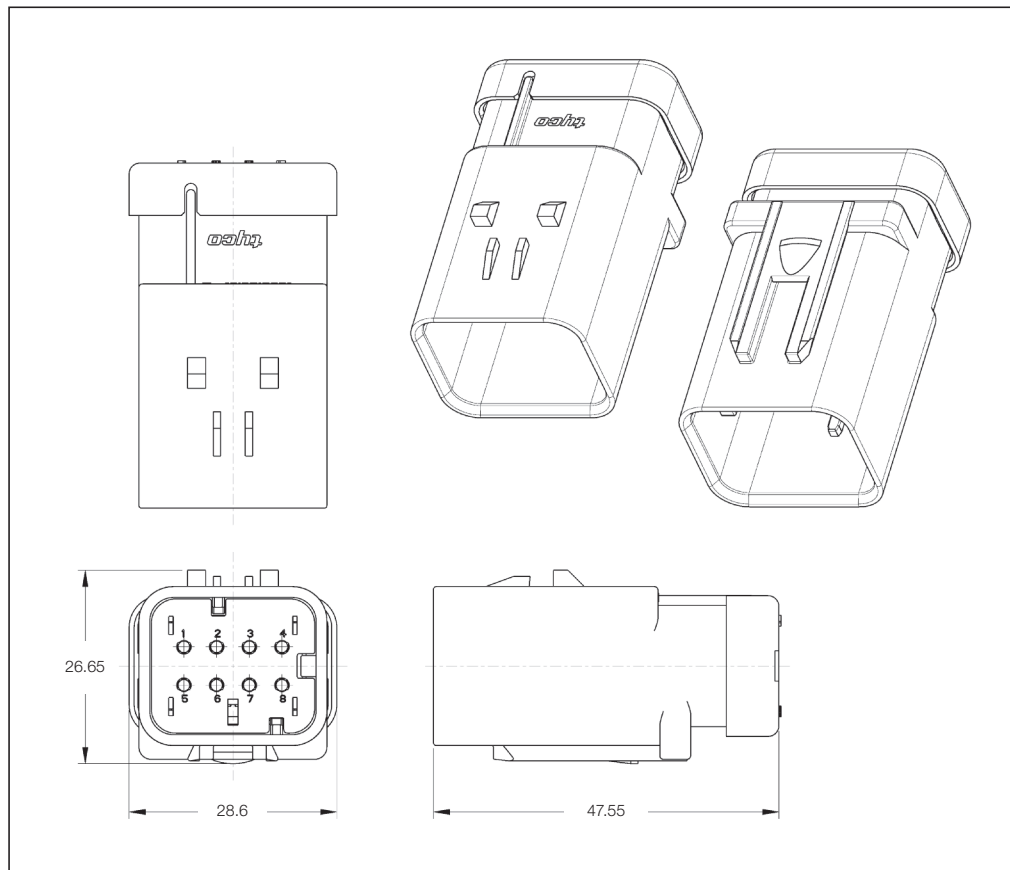
Housing Material:
Glass Reinforced PBT

Wire Size Range:
2.18–3.67 mm
1.30–2.54 mm
(with reduced diameter wire seal)

Product Specification:
108-2184

Application Specification:
114-13065

- UL 94-HB rated
- Resistant to a wide range of chemicals
- RoHS and ELV compliant



Sealed Pin Housings 2-Row with Standard Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Pin (Cap) Housing	Mating Receptacle (Plug) Housing
8	Red	Key A	776495-1	776494-1
	Gray	Key B	776495-2	776494-2
	Yellow	Key C	776495-3	776494-3
	Green	Key D	776495-4	776494-4

Sealed Pin Housings 2-Row with Reduced Diameter Wire Seal

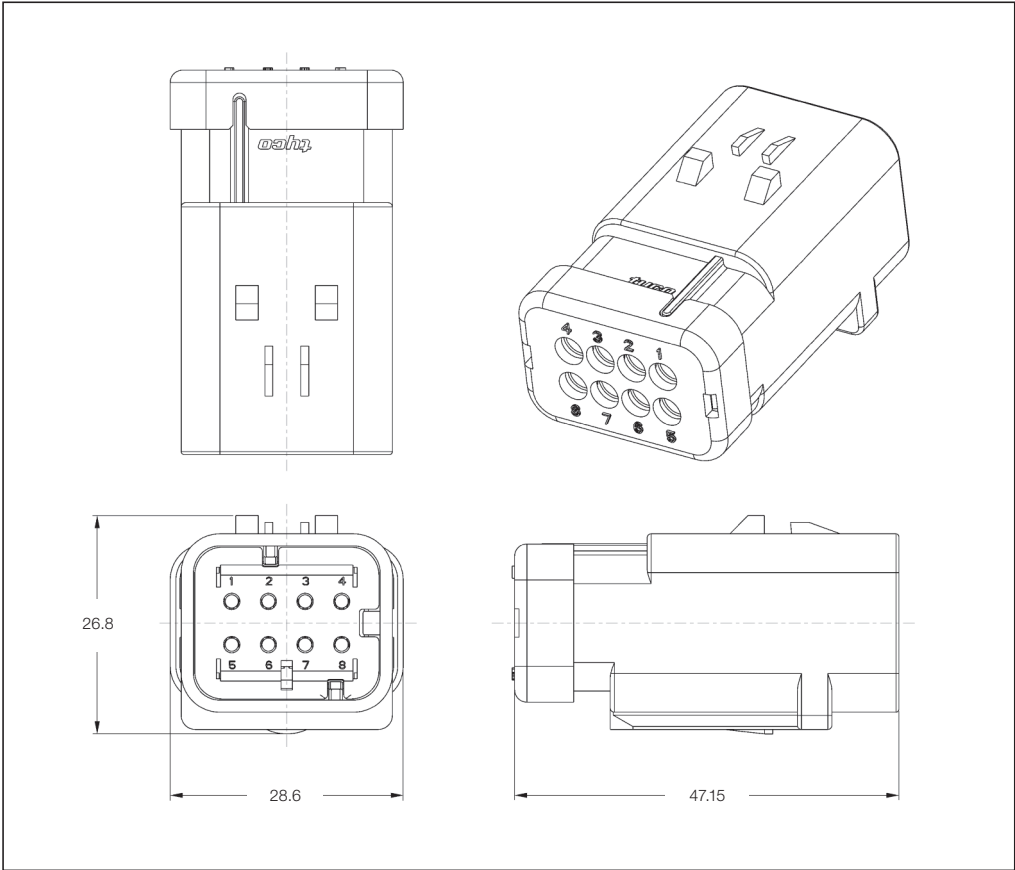
No. of Positions	PLR Color	Keying	Part Numbers	
			Pin (Cap) Housing	Mating Receptacle (Plug) Housing
8	Red	Key A	776538-1	776532-1
	Gray	Key B	776538-2	776532-2
	Yellow	Key C	776538-3	776532-3
	Green	Key D	776538-4	776532-4

2-Row Sealed Pin (Cap) Housings – Reversed Type

Technical Features

- No. of Positions:**
8 (2×4) Position Assembly
- Housing Material:**
Glass Reinforced PBT
- Wire Size Range:**
2.18–3.67 mm
- Product Specification:**
108-2184
- Application Specification:**
114-13065

- UL 94-HB rated
- Resistant to a wide range of chemicals
- RoHS and ELV compliant



Sealed Pin Housings 2-Row – Reversed Mounting Feature

No. of Positions	PLR Color	Keying	Part Numbers	
			Pin (Cap) Housing	Mating Receptacle (Plug) Housing
2	Red	Key A	1717676-1	776494-1
	Gray	Key B	1717676-2	776494-2
	Yellow	Key C	1717676-3	776494-3
	Green	Key D	1717676-4	776494-4

2-Row Sealed Pin (Cap) Housings

Technical Features

No. of Positions:

12 (2×6) Position Assembly

Housing Material:

Glass Reinforced PBT

Wire Size Range:

2.18–3.67 mm
1.30–2.54 mm
(with reduced diameter wire seal)

Product Specification:

108-2184

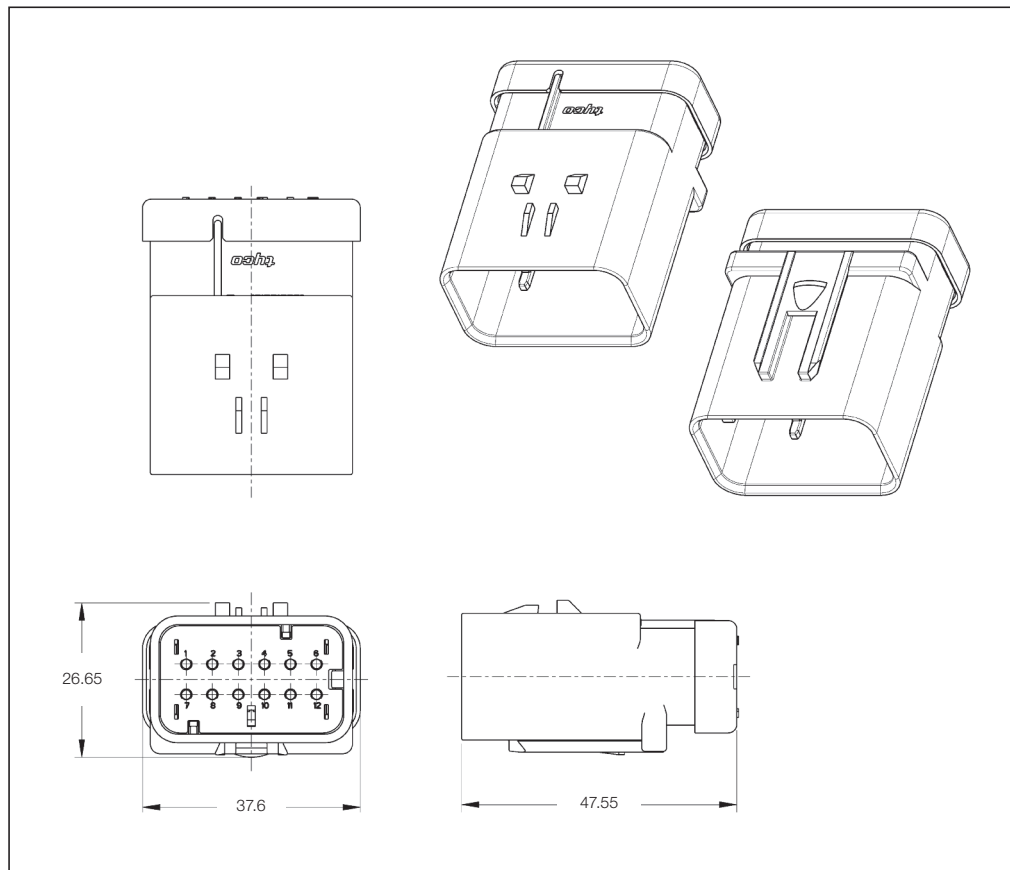
Application Specification:

114-13065

■ UL 94-HB rated

■ Resistant to a wide range
of chemicals

■ RoHS and ELV compliant



Sealed Pin Housings 2-Row with Standard Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Pin (Cap) Housing	Mating Receptacle (Plug) Housing
12	Red	Key A	776438-1	776437-1
	Gray	Key B	776438-2	776437-2
	Yellow	Key C	776438-3	776437-3
	Green	Key D	776438-4	776437-4

Sealed Pin Housings 2-Row with Reduced Diameter Wire Seal

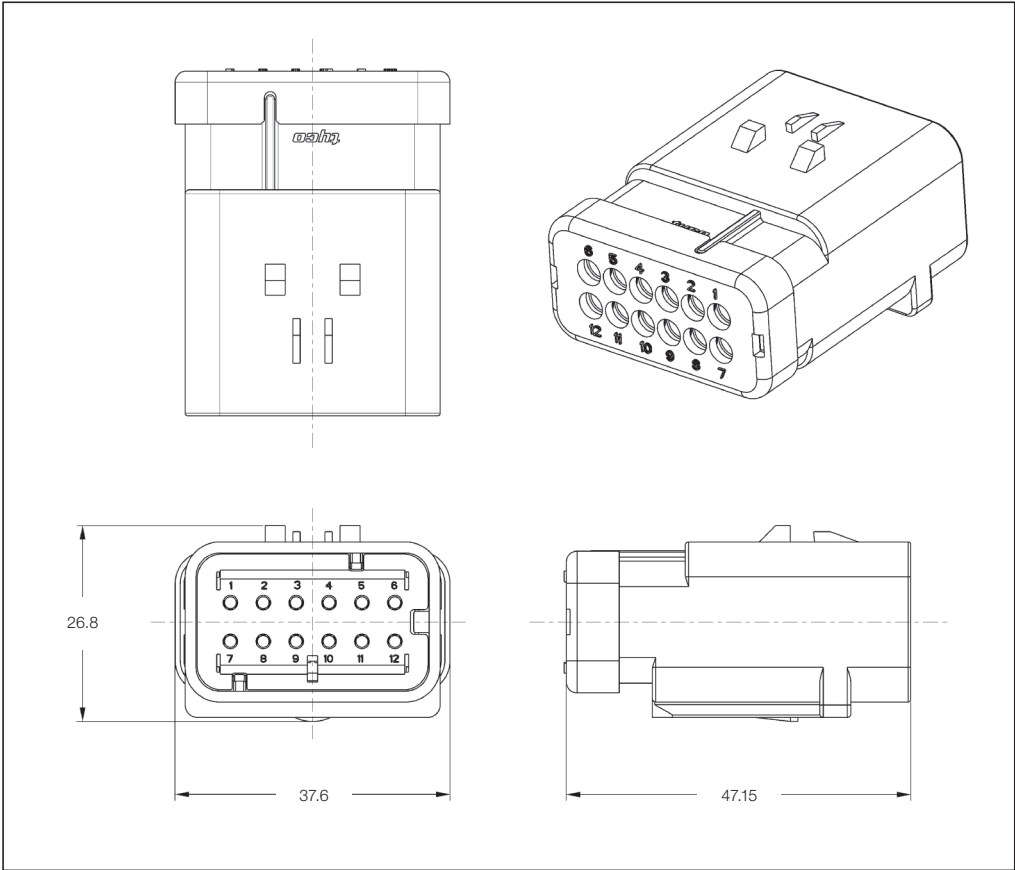
No. of Positions	PLR Color	Keying	Part Numbers	
			Pin (Cap) Housing	Mating Receptacle (Plug) Housing
12	Red	Key A	776539-1	776533-1
	Gray	Key B	776539-2	776533-2
	Yellow	Key C	776539-3	776533-3
	Green	Key D	776539-4	776533-4

2-Row Sealed Pin (Cap) Housings – Reversed Type

Technical Features

- No. of Positions:**
12 (2×6) Position Assembly
- Housing Material:**
Glass Reinforced PBT
- Wire Size Range:**
2.18–3.67 mm
1.30–2.54 mm
(with reduced diameter wire seal)
- Product Specification:**
108-2184
- Application Specification:**
114-13065

- UL 94-HB rated
- Resistant to a wide range of chemicals
- RoHS and ELV compliant



Sealed Pin Housings 2-Row – Reversed Mounting Feature

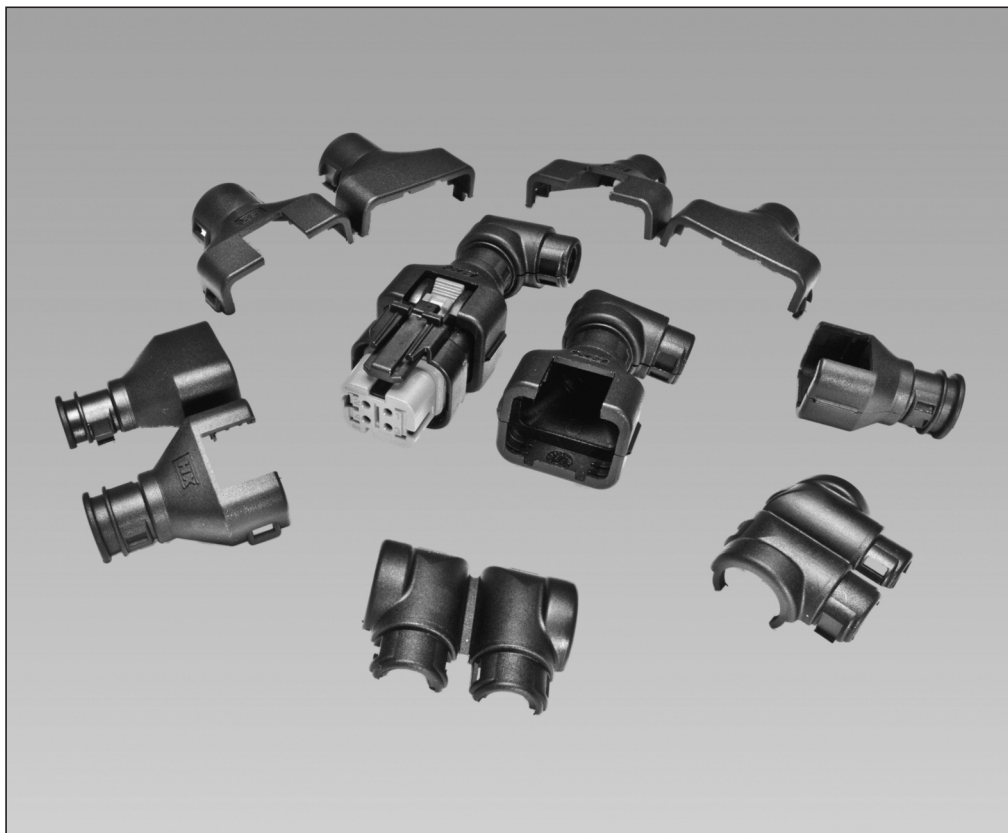
No. of Positions	PLR Color	Keying	Part Numbers	
			Pin (Cap) Housing	Mating Receptacle (Plug) Housing
12	Red	Key A	1717677-1	776437-1
	Gray	Key B	1717677-2	776437-2
	Yellow	Key C	1717677-3	776437-3
	Green	Key D	1717677-4	776437-4

Sealed Pin Housings 2-Row – Reversed Type with Reduced Diameter Wire Seal

No. of Positions	PLR Color	Keying	Part Numbers	
			Pin (Cap) Housing	Mating Receptacle (Plug) Housing
12	Red	Key A	1717934-1	776533-1
	Gray	Key B	1717934-2	776533-2
	Yellow	Key C	1717934-3	776533-3
	Green	Key D	1717934-4	776533-4

Vertical and 90° Backshells

AMPSEAL 16
Vertical and 90° Backshells
for Commercial Vehicle
Markets



Standard Height

Description	Part Number
2 Position / 0° Exit / NC 08	2035047-1
3 Position / 0° Exit / NC 08	2035047-2
4 Position / 0° Exit / NC 08	2035047-3
6 Position / 0° Exit / NC 08	2035047-4
4 Position / 0° Exit / NC 12	2035047-5
6 Position / 0° Exit / NC 12	2035047-6
8 Position / 0° Exit / NC 12	2035047-7
12 Position / 0° Exit / NC 12	2035047-8
8 Position / 0° Exit / NC 16	2035047-9
12 Position / 0° Exit / NC 16	1-2035047-0
12 Position / 0° Exit / NC 20	1-2035047-1
2 Position / 90° Exit / NC 08	2035048-1
3 Position / 90° Exit / NC 08	2035048-2
4 Position / 90° Exit / NC 08	2035048-3
2 Position / 90° Exit / NC 12	2035048-5
3 Position / 90° Exit / NC 12	2035048-6
4 Position / 90° Exit / NC 12	2035048-7

Note: All Part Numbers are RoHS and ELV compliant.

Low Profile

Description	Type	Part Number
2 Position / 90° Exit / NC 08	Plug Type	2035366-1
	Cap Type	2098436-1
3 Position / 90° Exit / NC 08	Plug Type	2035366-2
	Cap Type	2098436-2
4 Position / 90° Exit / NC 08	Plug Type	2035366-7
	Cap Type	2098436-7
6 Position / 90° Exit / NC 08	Plug Type	2035366-8
	Cap Type	2098436-8
2 Position / 90° Exit / NC 12	Plug Type	2035366-3
	Cap Type	2098436-3
3 Position / 90° Exit / NC 12	Plug Type	2035366-4
	Cap Type	2098436-4
4 Position / 90° Exit / NC 12	Plug Type	2035366-9
	Cap Type	2098436-9
6 Position / 90° Exit / NC 12	Plug Type	1-2035366-0
	Cap Type	1-2098436-0

Note: All Part Numbers are RoHS and ELV compliant.

Backshell Matrix

No. of Positions	Conduit Size	Part Numbers				
		Standard Straight	Standard 90°	Low Profile 90°	Mating Connectors	Type
2	NC08 NW7.5	2035047-1 *	2035048-1 *	2035366-1	776427-ALL 776522-ALL	Plug Assy
				2098436-1	776428-ALL 776534-ALL	Cap Assy
				2035366-2	776429-ALL 776523-ALL	Plug Assy
3	NC08 NW7.5	2035047-2 *	2035048-2 *	2098436-2	776430-ALL 776535-ALL	Cap Assy
				2035366-7	776487-ALL 776524-ALL	Plug Assy
				2098436-7	776488-ALL 776536-ALL	Cap Assy
4	NC08 NW7.5	2035047-3 *	2035048-3 *	2035366-8	776433-ALL 776531-ALL	Plug Assy
				2098436-8	776434-ALL 776537-ALL	Cap Assy
				2035366-3	776427-ALL 776522-ALL	Plug Assy
6	NC08 NW7.5	2035047-4 *	–	2098436-3	776428-ALL 776534-ALL	Cap Assy
				2035366-4	776429-ALL 776523-ALL	Plug Assy
				2098436-4	776430-ALL 776535-ALL	Cap Assy
2	NC12 NW10	–	–	2035366-9	776487-ALL 776524-ALL	Plug Assy
				2098436-9	776488-ALL 776536-ALL	Cap Assy
				2035366-5 *	2035048-7 *	
3	NC12 NW10	–	2035048-6 *	1-2035366-0	776433-ALL 776531-ALL	Plug Assy
				1-2098436-0	776434-ALL 776537-ALL	Cap Assy
				2035047-5 *	2035048-7 *	
4	NC12 NW10	2035047-7 *	–	–	776494-ALL 776532-ALL	Plug Assy
				–	776495-ALL 776538-ALL	Cap Assy
				–	776437-ALL 776533-ALL	Plug Assy
6	NC12 NW10	2035047-6 *	–	–	776438-ALL 776539-ALL	Cap Assy
				–		
				–		
8	NC12 NW10	2035047-8 *	–	–		
				–		
				–		
12	NC12 NW10	2035047-8 *	–	–		
				–		
				–		

Note: *)Backshell available only with latch window. Can be used for Cap Assembly if desired.

Backshell Matrix (continued)

No. of Positions	Conduit Size	Part Numbers				
		Standard Straight	Standard 90°	Low Profile 90°	Mating Connectors	Type
2	NC16 NW13	—	—	—	776427-ALL	Plug Assy
					776522-ALL	
					776428-ALL	Cap Assy
					776534-ALL	
3	NC16 NW13	—	—	—	776429-ALL	Plug Assy
					776523-ALL	
					776430-ALL	Cap Assy
					776535-ALL	
4	NC16 NW13	—	—	—	776487-ALL	Plug Assy
					776524-ALL	
					776488-ALL	Cap Assy
					776536-ALL	
6	NC16 NW13	—	—	—	776433-ALL	Plug Assy
					776531-ALL	
					776434-ALL	Cap Assy
					776537-ALL	
8	NC16 NW13	2035047-9*	—	—	776494-ALL	Plug Assy
					776532-ALL	
					776495-ALL	Cap Assy
					776538-ALL	
12	NC16 NW13	1-2035047-0*	—	—	776437-ALL	Plug Assy
					776533-ALL	
					776438-ALL	Cap Assy
					776539-ALL	
12	NC20 NW17	1-2035047-1*	—	—	776437-ALL	Plug Assy
					776533-ALL	
					776438-ALL	Cap Assy
					776539-ALL	

Note: *) Backshell available only with latch window. Can be used for Cap Assembly if desired.

Mounting Clips

**AMPSEAL 16
Mounting Clips
for Commercial Vehicle
Markets**



Description	Part Number
Mounting Clip with Anti-Rotational Feature	1924487-2
Mounting Clip without Anti-Rotational Feature	1924487-1

Description	Part Number
Cavity (Seal) Plug	776363-1
Cavity (Seal) Plug	776364-1

Please call your local TE Connectivity representative for personal assistance or visit our website.

Note: All Part Numbers are RoHS and ELV compliant.

Engineering Notes

A large rectangular area filled with a light gray grid, intended for handwritten engineering notes. The grid consists of small squares, typical of graph paper used in technical drawing and engineering.