

#### Introduction











#### **Product Features**

- Keyed / polarized, prevents mismating
- Lanceless contacts, no damaged tangs or tangled contacts
- Integral CPA protects against accidental unlocking
- Sleeved assembly for contact beam protection provides
   50 durability cycles
- Attachment feature on pin housing provides connector clip mounting
- Integral PLR provides primary latch reinforcement with no additional assembly
- Sealing of interface and wires provides for environmental integrity
- Resistant to a wide range of chemicals
- RoHS and ELV compliant



The AMPSEAL 16 Connector System is targeted for off-road, heavy duty industrial, recreational and agricultural applications. This wire-to-wire and wire-to-device connector line was designed to meet the rigorous demands of an industry that requires the highest standards in performance.

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

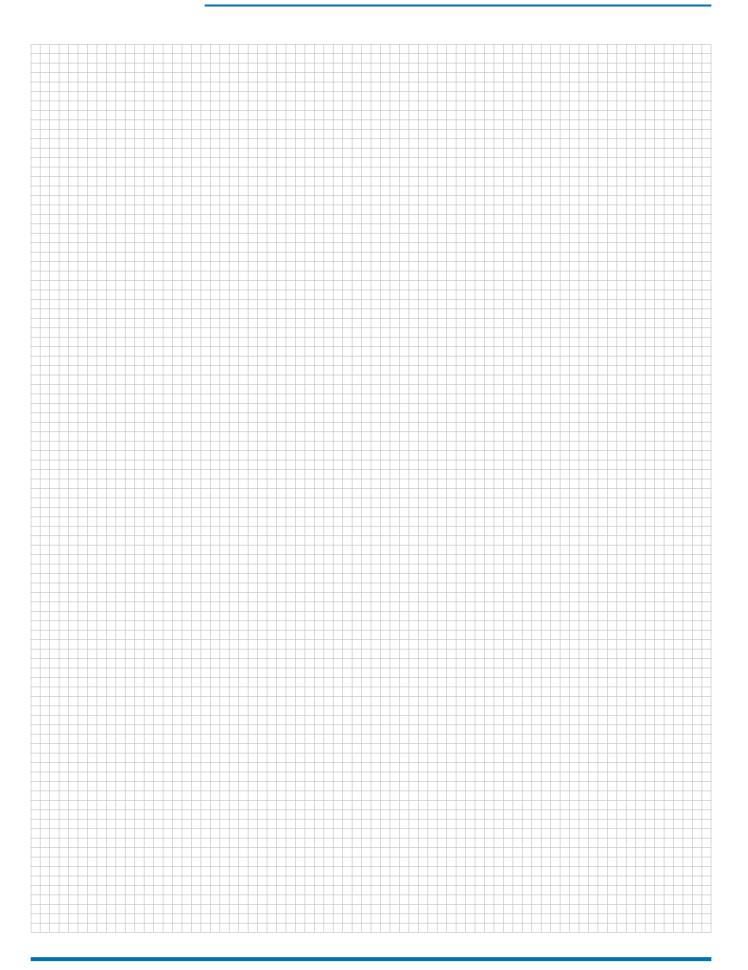
This connector family will feature the HDSF Size 16 Pin and Socket contacts as a terminal system.

These contacts are stamped and formed versions of the screw machined MIL-C-39029 contacts. The 2-, 3-, 4-, 6-, 8- and 12-position housings will offer a one-piece assembly for both plug and cap.



Section Catalog 1654281-2 Revised 12-2009 Main Catalog 1654400-1 Chapter 30 — Issued 3-2010

**Engineering Notes** 



# AMPSEAL 16 Connector System

Section Catalog 1654281-2 Revised 12-2009 Main Catalog 1654400-1 Chapter 30 – Issued 3-2010

Contact System

#### Introduction











#### **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 Tyco Electronics 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.

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

# AMPSEAL 16 Connector System Contact System

Section Catalog 1654281-2 Revised 12-2009 Main Catalog 1654400-1 Chapter 30 – Issued 3-2010

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	Plating		Wire Size	Insulation Rar		Terminal Part Number	Plating	
	(Reeled)	Au	Ni	(AWG)	Inch	mm	(Loose-Piece)	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 <b>*</b>	0.089-0.131	2.26-3.33	776300	-1	-2
Socket with Insulation Barrel	776492	-1	-2	18–14 <b>*</b>	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

<sup>\*) 14</sup> 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 Tyco Electronics Product Specialist.

Size 16 Terminal / Wire Selection for Connector Wire Seal Chart

				Tei	rminal Part N	Number (Reel	ed)		Connector Wire Seal	
Wire Size (Insulation Type)	Insulation Diameter (Nominal)		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 <sup>2</sup> (TXL)	1.78	0.070	V	V						~
0.5 mm <sup>2</sup> (GXL)	2.22	0.087	~	V						V
0.5 mm <sup>2</sup> (SXL)	2.55	0.100	~	V					V	
20 AWG (TXL)	1.78	0.070	V	V						V
20 AWG (GXL)	2.16	0.085	V	V						~
20 AWG (SXL)	2.44	0.096	~	<b>~</b>					<b>V</b>	
18 AWG (TXL)	1.98	0.078	~	<b>~</b>			<b>~</b>	~		~
18 AWG (GXL)	2.34	0.092	~	<b>~</b>	<b>V</b>	~	<b>V</b>	~	<b>V</b>	~
18 AWG (SXL)	2.72	0.107			V	~	<b>V</b>	~	<b>V</b>	
1.0 mm <sup>2</sup> (TXL)	2.28	0.090					<b>V</b>	~	<b>V</b>	<b>v</b>
1.0 mm <sup>2</sup> (GXL)	2.72	0.107			V	~	<b>V</b>	~	<b>V</b>	
1.0 mm <sup>2</sup> (SXL)	3.15	0.124			V	~	<b>V</b>	~	<b>V</b>	
16 AWG (TXL)	2.24	0.088					V	~	<b>V</b>	<b>v</b>
16 AWG (GXL)	2.62	0.103			V	~	<b>V</b>	~	<b>V</b>	
16 AWG (SXL)	3.05	0.120			V	~	<b>V</b>	~	<b>V</b>	
2.0 mm <sup>2</sup> (TXL)	2.58	0.102			V	~	<b>~</b>	<b>V</b>	~	
2.0 mm <sup>2</sup> (GXL)	3.02	0.119			V	<b>✓</b>	V	<b>v</b>	V	
2.0 mm <sup>2</sup> (SXL)	3.65	0.144					~	V		
14 AWG (TXL)	2.62	0.103			~	<b>✓</b>	~	<b>v</b>	V	
14 AWG (GXL)	2.97	0.117			~	<b>v</b>	~	<b>V</b>	V	
14 AWG (SXL)	3.58	0.141					~	~	V	

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 mm<sup>2</sup> (20-14 AWG)

Insulation Diameter:

1.27-3.67 mm

**Current Carrying Capacity:** 

13 amps

**Temperature Range** 

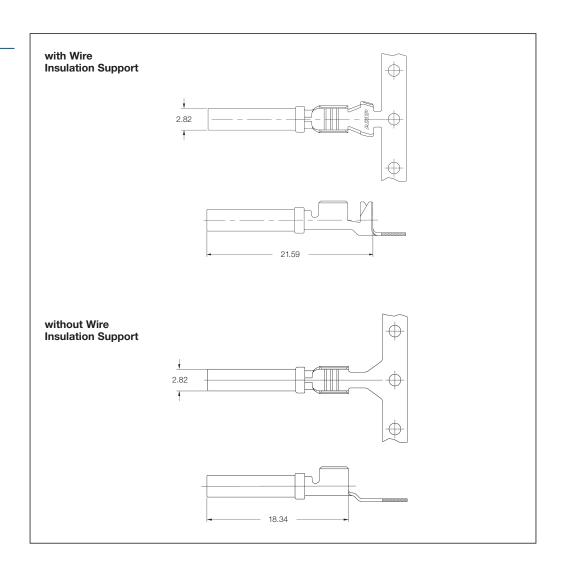
-40 °C to +125 °C

**Product Specification:** 

108-2184

**Application Specification:** 

114-13045



# **Receptacle Contacts with Wire Insulation Support**

	Size	Insulation	Material	Part Nu			Numbers	Numbers		
(mm²)	(AWG)	Diameter (mm)	and Finish	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator	Hand Tool	
0.5–0.8	20–18	1.27–2.72	Copper Alloy, Gold	1924464-1	4,000	1924580-1	1,000			
0.5-0.8	20-16	1.21-2.12	Copper Alloy, Nickel	1924464-2	4,000	1924580-2	1,000	See Application	Specification	
0.8-2.0	18–14	2.26–3.33	Copper Alloy, Gold	776492-1	4,000	776299-1	1,000	114-10	3045	
0.0-2.0	10-14	2.20-3.33	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 Insulation		Material	Part Numbers						
		Diameter (mm)	and Finish	Strip	Package	Loose-	Package	Applicator	Hand Tool	
(mm²)	(mm²) (AWG)	(11111)	Fo		Form Quantity	Piece	Quantity	7.40		
0.8-2.0	18–14	2.18–3.67	Copper Alloy, Gold	776491-1	4,000	776297-1	1,000	See Application	Specification	
0.0-2.0	10-14	2.10-0.07	Copper Alloy, Nickel	776491-2	4,000	776297-2	1,000	114-1	3045	

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 mm<sup>2</sup> (20-14 AWG)

**Insulation Diameter:** 

1.27-3.67 mm

**Current Carrying Capacity:** 

13 amps

**Temperature Range** 

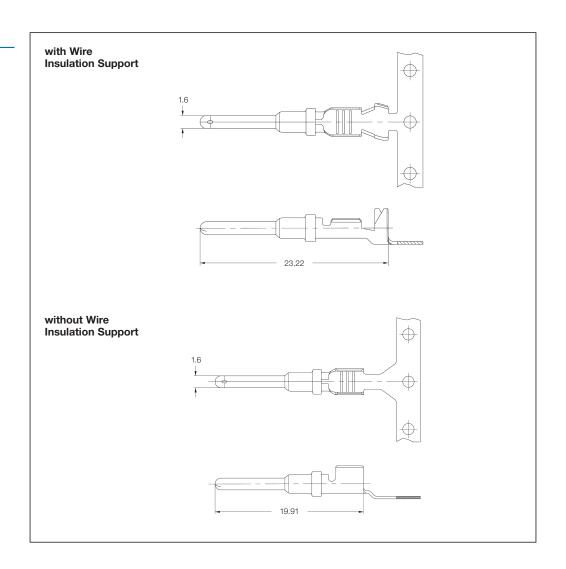
-40 °C to +125 °C

**Product Specification:** 

108-2184

**Application Specification:** 

114-13045



#### **Pin Contacts with Wire Insulation Support**

	Size	Insulation	Material	Part I			Numbers		
(mm²)	(AWG)	Diameter (mm)	and Finish	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator	Hand Tool
0.5–0.8	20–18	1.27–2.72	Copper Alloy, Gold	1924463-1	4,000	1924579-1	1,000		
0.5-0.8	20-16	1.21-2.12	Copper Alloy, Nickel	1924463-3	4,000	1924579-3	1,000	See Application	Specification
0.8-2.0	18–14	2.26–3.33	Copper Alloy, Gold	638078-1	4,000	776300-1	1,000	114-13	3045
0.6-2.0	10-14	2.20-3.33	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 Insulation Range Diameter		Material	Part Numbers					
		Diameter	and Finish	Strip	Package	Loose-	Package	Applicator	Hand Tool
(mm²)	(mm²) (AWG)	(mm)	Forn		Quantity	Piece	Quantity	- Topiloatoi Hana it	
0.8-2.0	18–14	2.18–3.67	Copper Alloy, Gold	638112-1	4,000	776298-1	1,000	See Application	Specification
0.0-2.0	0.8–2.0 18–14 2.18–3.67		Copper Alloy, Nickel	638112-3	4,000	776298-2	1,000	114-13045	

Note: All Part Numbers are RoHS and ELV compliant.

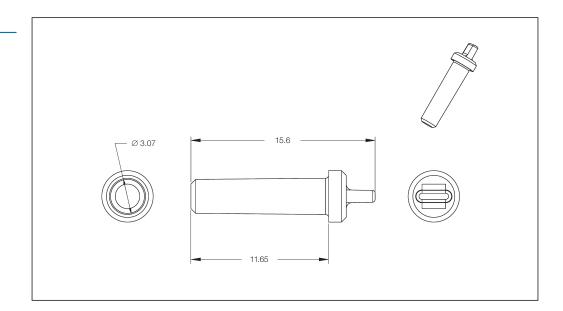
# **AMPSEAL 16 Connector System** Contact System

Section Catalog 1654281-2 Revised 12-2009 Main Catalog 1654400-1 Chapter 30 — Issued 3-2010

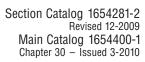
Cavity Plugs for Unsealed Cavity

#### **Technical Features**

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

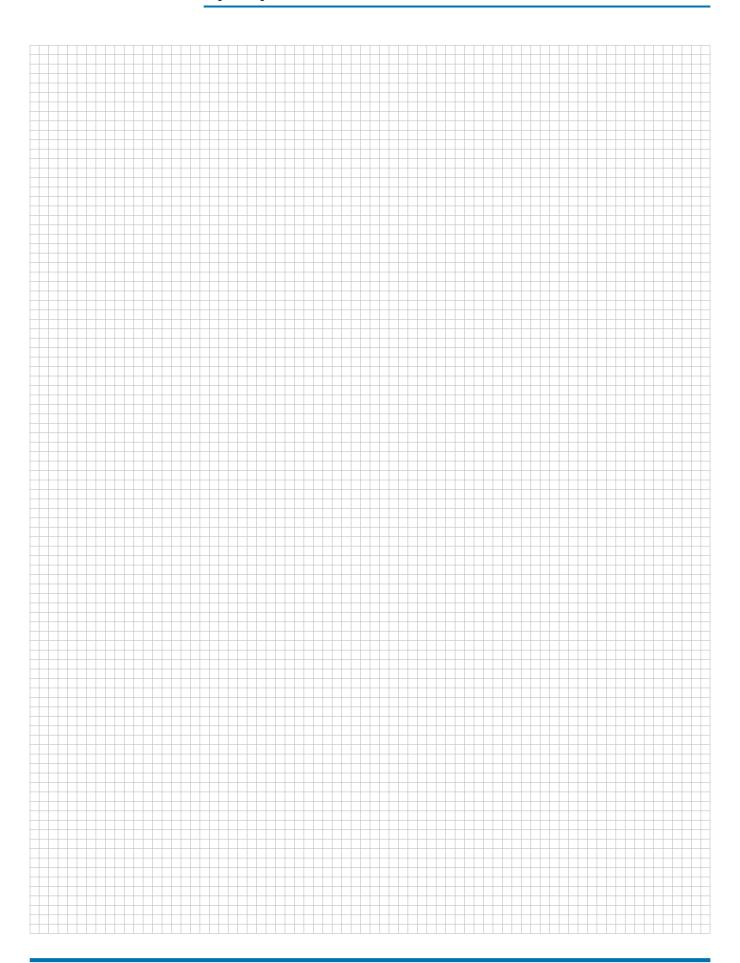


	Contact Cavity Size		Color	Part Number	Package Quantity	
	(mm)	(AWG)			Qualitity	
Standard Diameter	3.07	16	Yellow	776363-1	10,000	
Reduced Diameter	2.55	20	White	776364-1	10,000	





**Engineering Notes** 



#### Introduction











#### **Product Features**

- Integral PLR provides primary latch reinforcement with no additional assembly
- Keyed / polarized, prevents mismating
- 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 mismating 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) Positions Assembly

**Housing Material:** 

Glass Reinforced PBT

Wire Size Range:

2.18-3.67 mm

1.30-2.54 mm

(with reduced diameter wire seal)

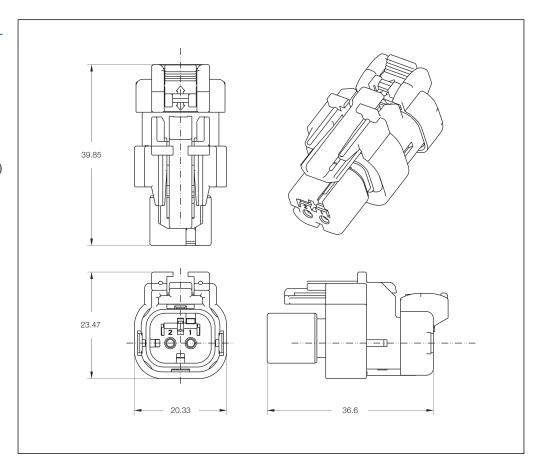
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108-2184

**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	DI D O-I		Part Numbers				
Positions	PLR Color	Keying	Receptacle (Plug) Housing	Mating Pin (Cap) Housing			
	Dod	Kov A	776427-1	776428-1			
	Red	Key A	110421-1	1717672-1			
		Key B	776427-2	776428-2			
2	Gray	rey b	110421-2	1717672-2			
2	Vollow	Key C	776427-3	776428-3			
	Yellow	Key C	110421-3	1717672-3			
Green		Key D	776427-4	776428-4			
	Green	Ney D	110421-4	1717672-4			

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

# AMPSEAL 16 Connector System

**Housings and Connectors** 

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

#### **Technical Features**

No. of Positions:

3 (1×3) Positions Assembly

**Housing Material:** 

Glass Reinforced PBT

Wire Size Range:

2.18-3.67 mm

1.30-2.54 mm

(with reduced diameter wire seal)

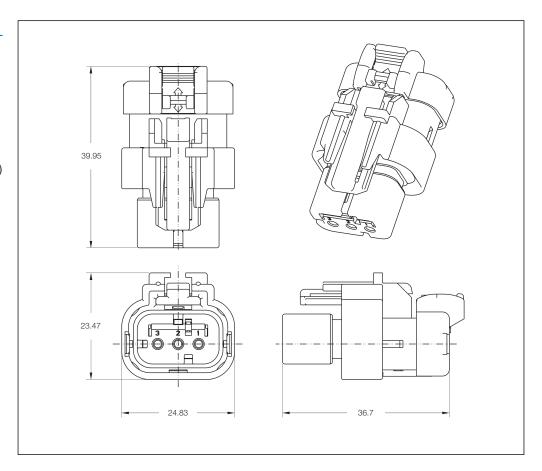
**Product Specification:** 

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	DI D Oalan		Part Numbers			
Positions	PLR Color	Keying	Receptacle (Plug) Housing	Mating Pin (Cap) Housing		
	Red	Key A	776429-1	776430-1		
		Key A	770429-1	1717673-1		
		Key B	776429-2	776430-2		
3	Gray	rey b	110429-2	1717673-2		
3	Yellow	Key C	776429-3	776430-3		
	rellow	Key C	110429-3	1717673-3		
	Green	Key D	776429-4	776430-4		
	Green	Ney D	110429-4	1717673-4		

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

## 2-Row Sealed Receptacle (Plug) Housings

#### **Technical Features**

No. of Positions:

4 (2×2) Positions Assembly

**Housing Material:** 

Glass Reinforced PBT

Wire Size Range:

2.18-3.67 mm

1.30-2.54 mm

(with reduced diameter wire seal)

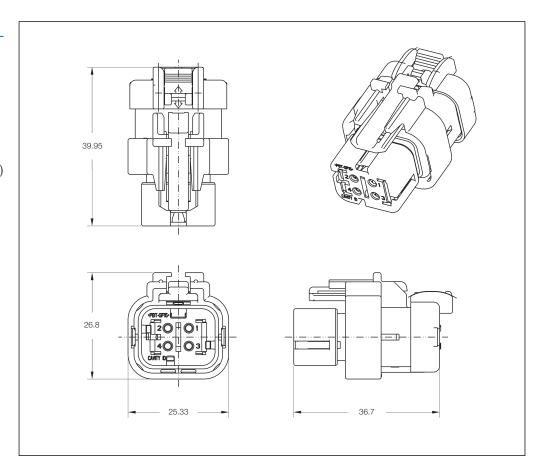
**Product Specification:** 

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	DI D Oalan	V i	Part Numbers				
Positions	PLR Color	Keying	Receptacle (Plug) Housing	Mating Pin (Cap) Housing			
	Red	Key A	776487-1	776488-1			
		Ney A	110401-1	1717674-1			
		Key B	776487-2	776488-2			
4	Gray	Ney D	110401-2	1717674-2			
4	Vollow	Key C	776487-3	776488-3			
	Yellow	Key C	110461-3	1717674-3			
	Green	Key D	776487-4	776488-4			
	Green	Ney D	110401-4	1717674-4			

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

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

#### **Technical Features**

No. of Positions:

6 (2×3) Positions Assembly

**Housing Material:** 

Glass Reinforced PBT

Wire Size Range:

2.18-3.67 mm

1.30-2.54 mm

(with reduced diameter wire seal)

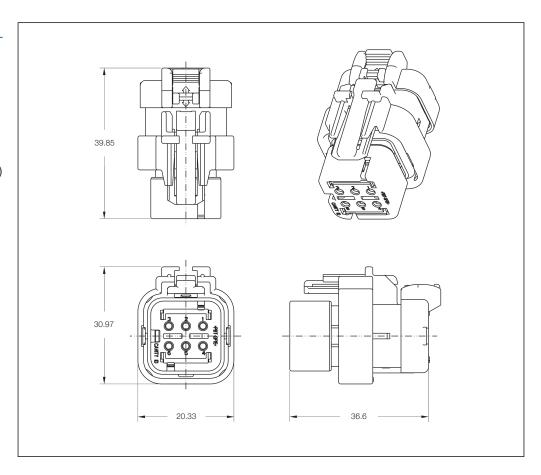
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108-2184

**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	DI D O-I	Vandana	Part Numbers	
Positions	PLR Color	Keying	Receptacle (Plug) Housing	Mating Pin (Cap) Housing
	Red	Kov A	776433-1	776434-1
	Red	Key A	770433-1	1717675-1
6	Crou	Key D	770400.0	776434-2
б	Gray	Key B 776433-2	Rey D	1717675-2
	Yellow	Kov C	776499 9	776434-3
	rellOW	Key C	776433-3	1717675-3

No. of	PLR Color	Varian	Part Numbers		
Positions	PLR Color	Keying	Receptacle (Plug) Housing Mating Pir	Mating Pin (Cap) Housing	
	Red	17. 4	776531-1	776537-1	
	Red	Key A	770031-1	1717975-1	
6	Crov	Kov P	770504.0	776537-2	
O	Gray	Key B 776531-2	rey b	110551-2	1717975-2
	Yellow	Key C	776531-3	776537-3	
	reliow	Key C	170551-5	1717975-3	

## 2-Row Sealed Receptacle (Plug) Housings

#### **Technical Features**

No. of Positions:

8 (2×4) Positions Assembly

**Housing Material:** 

Glass Reinforced PBT

Wire Size Range:

2.18-3.67 mm

1.30-2.54 mm

(with reduced diameter wire seal)

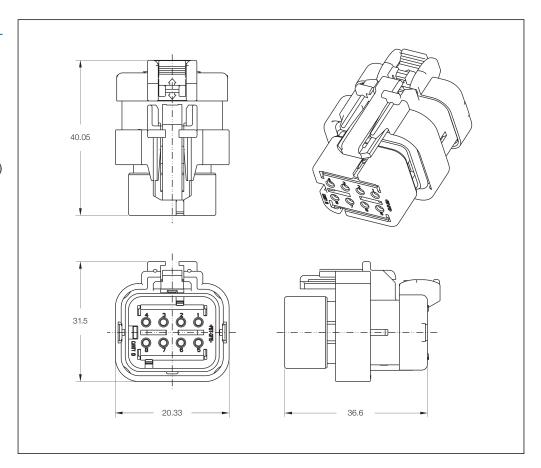
**Product Specification:** 

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	DI D Color	Varian	Part Nu	umbers
Positions	PLR Color	Keying	Receptacle (Plug) Housing	Mating Pin (Cap) Housing
	Red	Key A	776404 1	776495-1
	neu	Ney A	776494-1 171767 776494-2 77649	1717676-1
	Crov	Key B	776494-2	776495-2
8	Gray	Ney D		1717676-2
0	Yellow	Key C	776494-3	776495-3
	rellow	Key C		1717676-3
	Green	Kov D	776404 4	776495-4
	Green	Key D	776494-4	1717676-4

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

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

#### **Technical Features**

No. of Positions:

12 (2×6) Positions Assembly

Housing Material:

Glass Reinforced PBT

Wire Size Range:

2.18-3.67 mm

1.30-2.54 mm

(with reduced diameter wire seal)

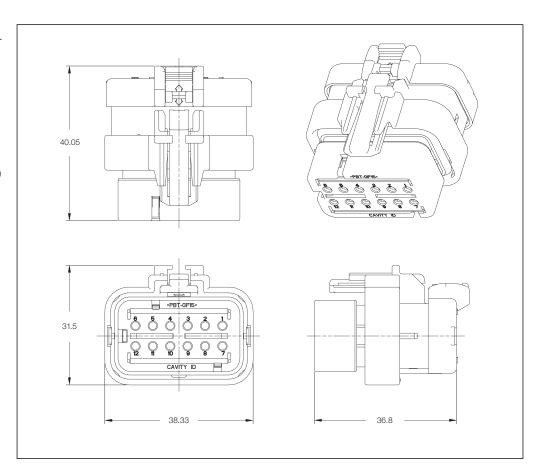
**Product Specification:** 

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	DI D Oalan	V	Part Nu	umbers	
Positions	PLR Color	Keying	Receptacle (Plug) Housing	Mating Pin (Cap) Housing	
	Red	Kov A	776437-1	776538-1	
	neu	Key A	110431-1		
	Gray	Key B	776437-2	776538-2	
12	Gray	Key b	110431-2	1717677-2	
12	Yellow	Key C	776437-3	776538-3	
	rellow	Key C	110431-3	1717677-3	
	Green	Kay D	776407 4	776538-4	
	Green	Key D	776437-4 —	1717677-4	

No. of	PLR Color	Varian	Part Nu	umbers
Positions	PLR Color	Keying	Receptacle (Plug) Housing	Mating Pin (Cap) Housing
	Red	Key A	776533-1	776539-1
	neu	Ney A	770333-1	1717934-1
	Gray	Key B	776533-2	776539-2
12	Gray	Key D	110333-2	1717934-1
12	Yellow	Kov C	776533-3	776539-3
	TellOW	Key C	110000-3	1717934-3
	Croon	Kov D	776533-4	776539-4
	Green	Key D	110033-4	1717934-4

# AMPSEAL 16 Connector System

**Housings and Connectors** 

Section Catalog 1654281-2 Revised 12-2009 Main Catalog 1654400-1 Chapter 30 – Issued 3-2010

# 1-Row Sealed Pin (Cap) Housings

#### **Technical Features**

No. of Positions:

2 (1×2) Positions Assembly

**Housing Material:** 

Glass Reinforced PBT

Wire Size Range:

2.18-3.67 mm

1.30-2.54 mm

(with reduced diameter wire seal)

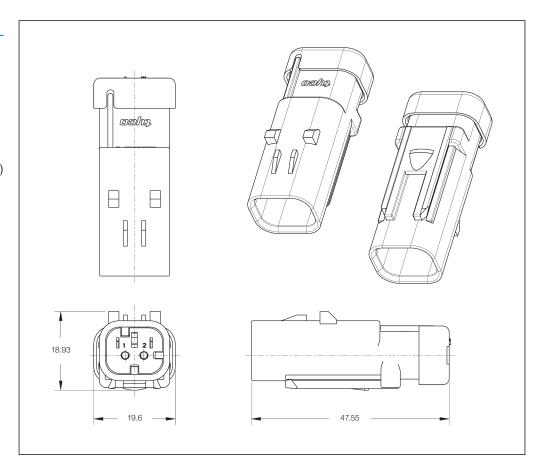
**Product Specification:** 

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	Varian	Р	art Numbers
	PLR Color	Keying	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	PLR Color	V	Р	art Numbers
Positions	PLR Color	Keying	Pin (Cap) Housing	Mating Receptacle (Plug) Housing
	Red	Key A	776534-1	776522-1
0	Gray	Key B	776534-2	776522-2
2	Yellow	Key C	776534-3	776522-3
	Green	Key D	776534-4	776522-4

**Housings and Connectors** 

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

#### **Technical Features**

No. of Positions:

2 (1×2) Positions Assembly

**Housing Material:** 

Glass Reinforced PBT

Wire Size Range:

2.18-3.67 mm

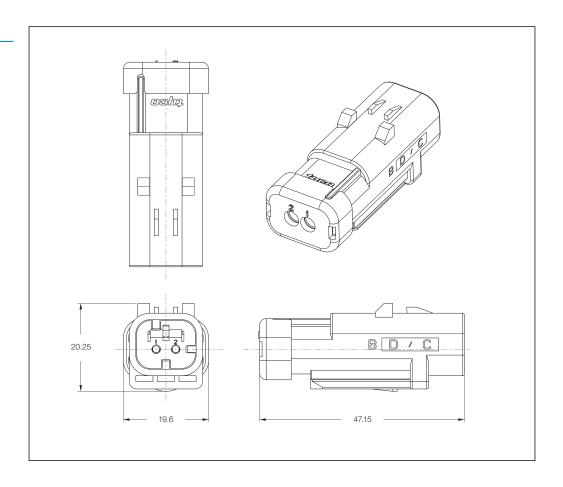
**Product Specification:** 

108-2184

 ${\bf Application\ Specification:}$ 

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	Varian	Р	art Numbers
	PLR Color	Keying	Pin (Cap) 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) Positions Assembly

**Housing Material:** 

Glass Reinforced PBT

Wire Size Range:

2.18-3.67 mm

1.30-2.54 mm

(with reduced diameter wire seal)

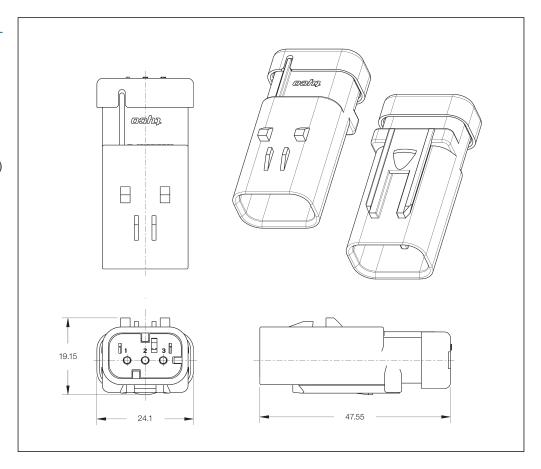
**Product Specification:** 

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	Varian	Part Numbers	
	PLR Color	Keying	Pin (Cap) Housing	Mating Receptacle (Plug) Housing 776429-1 776429-2
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	PLR Color	Vi	Part Numbers	
Positions	PLR Color	Keying	Pin (Cap) Housing	Mating Receptacle (Plug) Housing
	Red	Key A	776535-1	776523-1
3	Gray	Key B	776535-2	776523-2
3	Yellow	Key C	776535-3	776523-3
	Green	Key D	776535-4	776523-4

# **AMPSEAL 16 Connector System**

**Housings and Connectors** 

Section Catalog 1654281-2 Revised 12-2009 Main Catalog 1654400-1 Chapter 30 – Issued 3-2010

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

#### **Technical Features**

No. of Positions:

3 (1×3) Positions Assembly

**Housing Material:** 

Glass Reinforced PBT

Wire Size Range:

2.18-3.67 mm

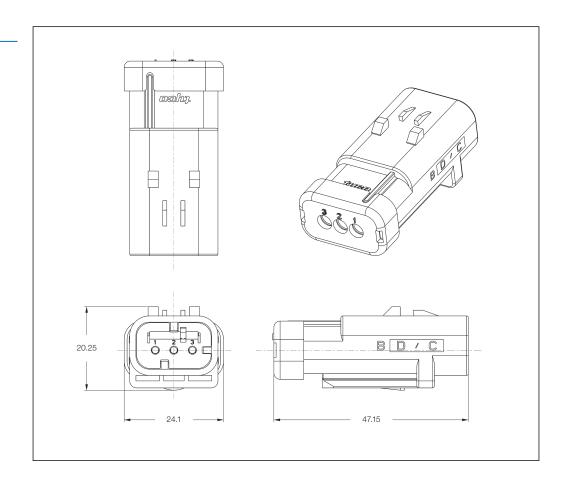
**Product Specification:** 

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	Varian	Р	art Numbers
	PLR Color	Keying	Pin (Cap) Housing         Mating Receptacle (Plug) Housing           1717673-1         776429-1           1717673-2         776429-2	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) Positions Assembly

**Housing Material:** 

Glass Reinforced PBT

Wire Size Range:

2.18-3.67 mm

1.30-2.54 mm

(with reduced diameter wire seal)

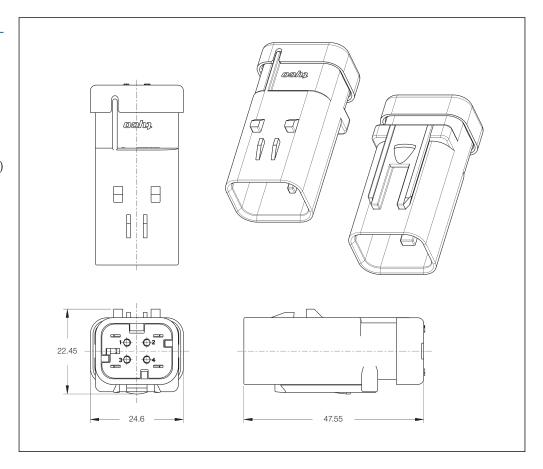
**Product Specification:** 

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	Varian	Р	art Numbers
	PLR Color	Keying	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	DI D O-I	Vi	Р	art Numbers
Positions	PLR Color	Keying	Pin (Cap) Housing	Mating Receptacle (Plug) Housing
	Red	Key A	776536-1	776524-1
4	Gray	Key B	776536-2	776524-2
4	Yellow	Key C	776536-3	776524-3
	Green	Key D	776536-4	776524-4

# AMPSEAL 16 Connector System

**Housings and Connectors** 

Section Catalog 1654281-2 Revised 12-2009 Main Catalog 1654400-1 Chapter 30 – Issued 3-2010

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

#### **Technical Features**

No. of Positions:

4 (2×2) Positions Assembly

Housing Material:

Glass Reinforced PBT

Wire Size Range:

2.18-3.67 mm

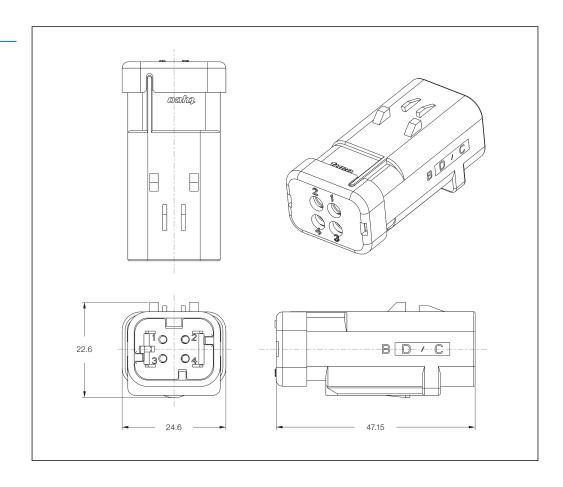
**Product Specification:** 

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	Varian	Part Numbers	
	PLR Color	Keying	1717674-1 776487-1	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) Positions Assembly

**Housing Material:** 

Glass Reinforced PBT

Wire Size Range:

2.18-3.67 mm 1.30-2.54 mm

(with reduced diameter wire seal)

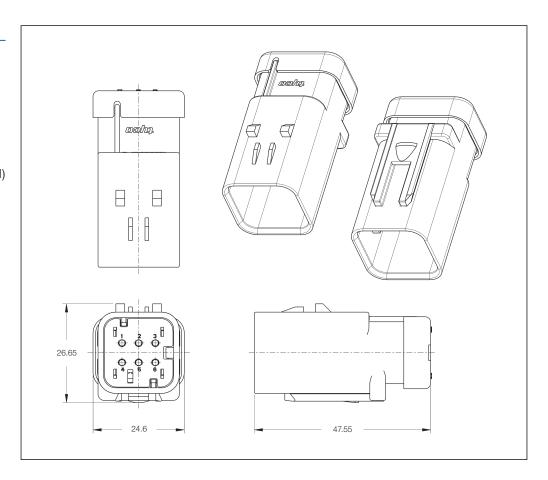
**Product Specification:** 

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 Keving	Varian	Р	art Numbers
	PLR Color	Keying	Pin (Cap) Housing Mating Receptacle (Plug) H	Mating Receptacle (Plug) Housing
	Red	Key A	776434-1	776433-1
6	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	DI D Color	Varian	Р	art Numbers
Positions	PLR Color	Keying	Pin (Cap) Housing Mating Receptacle (Plug) H	Mating Receptacle (Plug) Housing
	Red	Key A	776537-1	776531-1
6	Gray	Key B	776537-2	776531-2
	Yellow	Key C	776537-3	776531-3

# **AMPSEAL 16 Connector System** Housings and Connectors

Section Catalog 1654281-2 Revised 12-2009 Main Catalog 1654400-1 Chapter 30 – Issued 3-2010

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

#### **Technical Features**

No. of Positions:

6 (2×3) Positions Assembly

**Housing Material:** 

Glass Reinforced PBT

Wire Size Range:

2.18-3.67 mm

1.30-2.54 mm

(with reduced diameter wire seal)

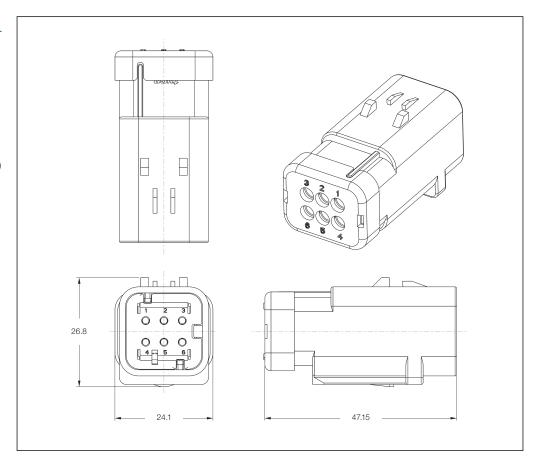
**Product Specification:** 

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 Keving	Varian	Р	art Numbers
	PLR Color	Keying	Pin (Cap) Housing Mating Receptacle (Plug) H	Mating Receptacle (Plug) Housing
	Red	Key A	1717675-1	776433-1
6	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	PLR Color Kevina	Varian	P	art Numbers
Positions	PLR Color	Keying	Pin (Cap) Housing Mating Rece	Mating Receptacle (Plug) Housing
	Red	Key A	1717975-1	776531-1
6	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) Positions Assembly

**Housing Material:** 

Glass Reinforced PBT

Wire Size Range:

2.18-3.67 mm

1.30-2.54 mm

(with reduced diameter wire seal)

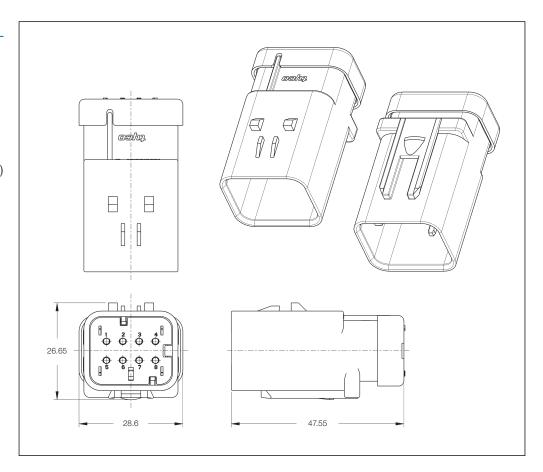
**Product Specification:** 

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 Kevina		Part Numbers	
	PLR Color	Keying	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	PLR Color	Varian	Part Numbers		
Positions	PLR Color	Keying	Pin (Cap) Housing	Mating Receptacle (Plug) Housing	
	Red	Key A	776538-1	776532-1	
0	Gray	Key B	776538-2	776532-2	
0	Yellow	Key C	776538-3	776532-3	
	Green	Key D	776538-4	776532-4	

# **AMPSEAL 16 Connector System** Housings and Connectors

Section Catalog 1654281-2 Revised 12-2009 Main Catalog 1654400-1 Chapter 30 – Issued 3-2010

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

#### **Technical Features**

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

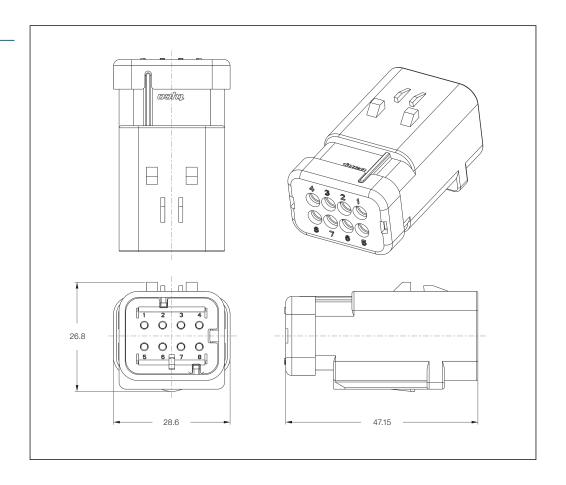
**Housing Material:**Glass Reinforced PBT

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	PLR Color	Varian	Part Numbers		
Positions	PLR Color	Keying	Pin (Cap) Housing	Mating Receptacle (Plug) Housing	
	Red	Key A	1717676-1	776494-1	
0	Gray	Key B	1717676-2	776494-2	
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) Positions Assembly

**Housing Material:** 

Glass Reinforced PBT

Wire Size Range:

2.18-3.67 mm

1.30-2.54 mm

(with reduced diameter wire seal)

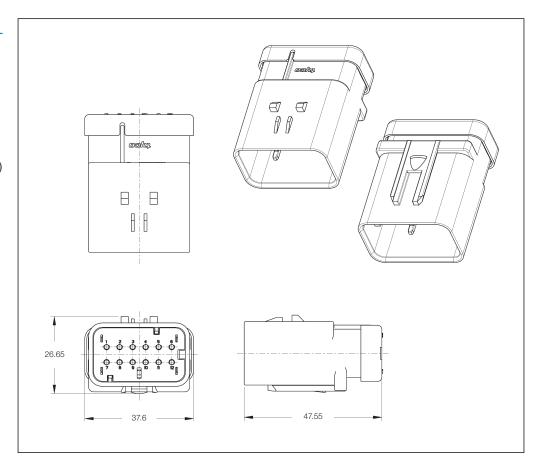
**Product Specification:** 

108-2184

 ${\bf Application\ Specification:}$ 

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 Kevina		Part Numbers	
	PLR Color	Keying	Pin (Cap) Housing	Mating Receptacle (Plug) Housing
	Red	Key A	776438-1	776437-1
10	Gray	Key B	776438-2	776437-2
12	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	DI D Oslan		Part Numbers	
Positions	PLR Color Keying	Pin (Cap) Housing	Mating Receptacle (Plug) Housing	
	Red	Key A	776539-1	776533-1
12	Gray	Key B	776539-2	776533-2
12	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) Positions Assembly

**Housing Material:** 

Glass Reinforced PBT

Wire Size Range:

2.18-3.67 mm

1.30-2.54 mm

(with reduced diameter wire seal)

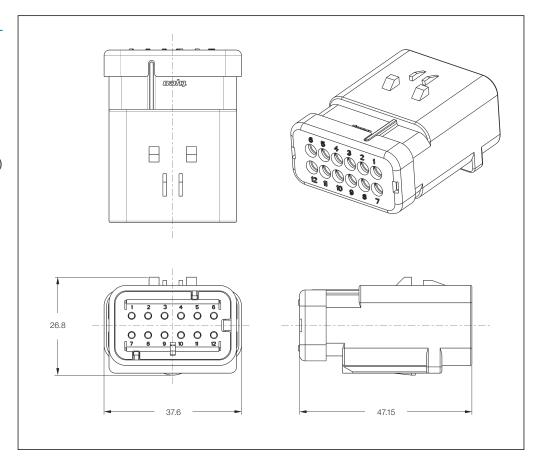
**Product Specification:** 

108-2184

 ${\bf Application\ Specification:}$ 

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	DI D Color	Varian	Р	art Numbers	
Positions	PLR Color	Keying	PLR Color Keying ——	Pin (Cap) Housing	Mating Receptacle (Plug) Housing
	Red	Key A	1717677-1	776437-1	
	Gray	Key B	1717677-2	776437-2	
12	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	DI D. OI	Vi	Part Numbers	
Positions	PLR Color	Keying	Pin (Cap) Housing	Mating Receptacle (Plug) Housing
	Red	Key A	1717934-1	776533-1
10	Gray	Key B	1717934-2	776533-2
12	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

 $\mbox{\bf Note:}$  All Part Numbers are RoHS and ELV compliant.

#### **Low Profile**

Description	Туре	Part Number
2 Position / 90° Exit / NC 08	Plug Type	2035366-1
2 POSITION / 90 EXIT / NO 00	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
4 POSITION / 90 EXIT / NO 00	Cap Type	2098436-7
6 Position / 90° Exit / NC 08	Plug Type	2035366-8
6 POSITION / 90° EXIL / INC 06	Cap Type	2098436-8
2 Position / 90° Exit / NC 12	Plug Type	2035366-3
2 FOSITION / 90 EXIT / NO 12	Cap Type	2098436-3
3 Position / 90° Exit / NC 12	Plug Type	2035366-4
3 FOSILIOIT/ 90 EXIL/ NO 12	Cap Type	2098436-4
4 Position / 90° Exit / NC 12	Plug Type	2035366-9
4 FUSILIOIT/ 30 EXIL/ NO 12	Cap Type	2098436-9
6 Position / 90° Exit / NC 12	Plug Type	1-2035366-0

Note: All Part Numbers are RoHS and ELV compliant.

# **AMPSEAL 16 Connector System**

**Housings and Connectors** 

Section Catalog 1654281-2 Revised 12-2009 Main Catalog 1654400-1 Chapter 30 - Issued 3-2010

Backshell Matrix

No. of	Conduit			Part Numbers		
Positions	Size	Standard Straight	Standard 90°	Low Profile 90°	Mating Connectors	Туре
			Dlug Aggy		5366-1	776427-ALL
2	NC08	2035047-1*	Plug Assy 2035048-1*		776522-ALL	-
2	NW7.5	2033047-1			8436-1	776428-ALL
			Cap Assy		776534-ALL	
			Plug Assy		5366-2	776429-ALI
3	NC08	2035047-2*	2035048-2*		776523-ALL	
0	NW7.5	2003041-2	Cap Assy		8436-2	776430-ALI
			Сар Аззу		776535-ALL	
			Plug Assy		5366-7	776487-ALI
4	NC08	2035047-3*	2035048-3*		776524-ALL	-
4	NW7.5	2003041-0	Cap Assy		8436-7	776488-ALI
			Оар Аззу		776536-ALL	
			Plug Assy		5366-8	776433-ALI
6	NC08 2035047-4* -	- I lug Assy		776531-ALL		
O	NW7.5	2000041 4	Cap Assy		8436-8	776434-ALI
					776537-ALL	
		Plug Assy		5366-3	776427-ALI	
2	NC12	_	-		776522-ALL	
	NW10	0	Con Apply		8436-3	776428-ALI
			Cap Assy		776534-ALL	-
			Plug Assy		5366-4	776429-ALI
3	NC12	_	2035048-6*		776523-ALL	
0	NW10		Cap Assy		8436-4	776430-ALI
					776535-ALL	
			Plug Assy		5366-9	776487-ALI
4	NC12	2035047-5 <b>*</b>	2035048-7*		776524-ALL	
	NW10		Cap Assy		8436-9	776488-ALI
					776536-ALL	
				1-2035366-0	776433-ALL	- Plug Assy
6	NC12	2035047-6 <b>*</b>	_		776531-ALL	
	NW10			1-2098436-0	776434-ALL	- Cap Assy
					776537-ALL	
				-	776494-ALL	- Plug Assy
8	NC12 NW10	2035047-7*	-		776532-ALL	
	INVVIU			-	776495-ALL	- Cap Assy
					776538-ALL	
				-	776437-ALL	- Plug Assy
12	NC12 NW10	2035047-8*	-		776533-ALL 776438-ALL	
				-	776539-ALL	- Cap Assy

# **AMPSEAL 16 Connector System** Housings and Connectors

Section Catalog 1654281-2 Revised 12-2009 Main Catalog 1654400-1 Chapter 30 – Issued 3-2010

Backshell Matrix (continued)

No. of Positions	Conduit			Part Numbers		
	Size	Standard Straight	Standard 90°	Low Profile 90°	Mating Connectors	Туре
				776427-ALL	DI A	
0	NC16			_	776522-ALL	Plug Assy
2	NW13	_	-		776428-ALL	Con Assu
				_	776534-ALL	Cap Assy
					776429-ALL	Diua Assu
3	NC16			_	776523-ALL	Plug Assy
3	NW13	_	_		776430-ALL	0 1
				_	776535-ALL	Cap Assy
					776487-ALL	Plug Assy
4	NC16		_	_	776524-ALL	
4	NW13			776488-ALL	Can Asses	
					776536-ALL	Cap Assy
					776433-ALL	Dlug A :
0	NC16			776531-ALL	Plug Assy	
6	NW13	NW13	_		776434-ALL	Cap Assy
					776537-ALL	
					776494-ALL	Dl. A
0	NC16			776532-ALL	Plug Assy	
8	NW13	2035047-9* – ——			776495-ALL	Cap Assy
				_	776538-ALL	
					776437-ALL	Plug Assy Cap Assy
12	NC16	1-2035047-0*	:0.4= 0.#s		776533-ALL	
IZ	NW13	1-2030047-0*	-		776438-ALL	
				_	776539-ALL	
					776437-ALL	Dlug Assu
10	NC20	1 0005047 1 *			776533-ALL	Plug Assy
12	NW17	1-2035047-1*	-		776438-ALL	
				_	776539-ALL	Cap Assy

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

# **AMPSEAL 16 Connector System** Housings and Connectors

Section Catalog 1654281-2 Revised 12-2009 Main Catalog 1654400-1 Chapter 30 – Issued 3-2010

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

Please call your local Tyco Electronics representative for personal assistance or visit our website.

Note: All Part Numbers are RoHS and ELV compliant.





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776298-2		
	30-4,	
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