

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.

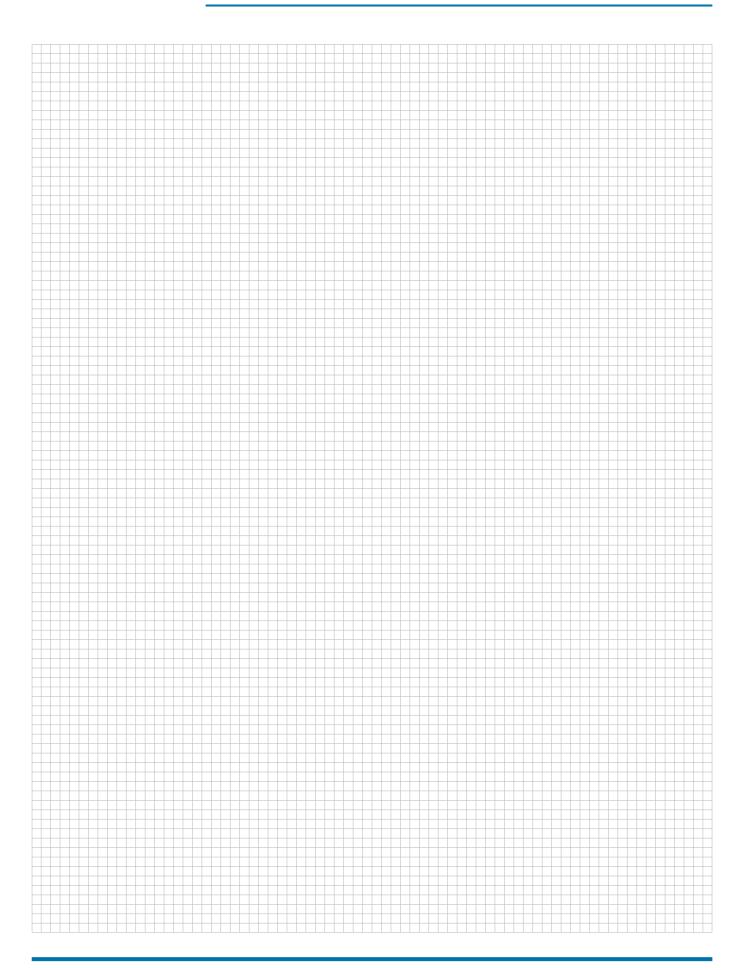
Thermoplastic housings (-40 °C to +125 °C rated) and silicone seals allow the connectors to withstand extreme temperatures and moisture.

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.



Engineering Notes



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

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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 (Loose-Piece)	Plating	
	(Reeled)	Au	Au Ni (AWG) —		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 Tyco Electronics Product Specialist.

Size 16 Terminal / Wire Selection for Connector Wire Seal Chart

				Tei	minal Part N	lumber (Reele	ed)		Connecto	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 ² (TXL)	1.78	0.070	V	✓						V	
0.5 mm ² (GXL)	2.22	0.087	~	~						~	
0.5 mm ² (SXL)	2.55	0.100	v	V					V		
20 AWG (TXL)	1.78	0.070	V	V						V	
20 AWG (GXL)	2.16	0.085	v	V						V	
20 AWG (SXL)	2.44	0.096	✓	~					~		
18 AWG (TXL)	1.98	0.078	~	~			V	~		~	
18 AWG (GXL)	2.34	0.092	~	~	V	~	V	~	V	~	
18 AWG (SXL)	2.72	0.107			V	~	V	~	V		
1.0 mm ² (TXL)	2.28	0.090					V	~	V	~	
1.0 mm ² (GXL)	2.72	0.107			V	~	V	~	V		
1.0 mm ² (SXL)	3.15	0.124			V	~	V	~	v		
16 AWG (TXL)	2.24	0.088					V	~	V	~	
16 AWG (GXL)	2.62	0.103			V	~	v	~	V		
16 AWG (SXL)	3.05	0.120			V	V	v	V	~		
2.0 mm ² (TXL)	2.58	0.102			V	V	V	V	V		
2.0 mm ² (GXL)	3.02	0.119			V	V	V	V	V		
2.0 mm ² (SXL)	3.65	0.144					V	V			
14 AWG (TXL)	2.62	0.103			V	~	V	~	V		
14 AWG (GXL)	2.97	0.117			V	~	V	~	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 mm² (20-14 AWG)

Insulation Diameter:

1.27-3.67 mm

Current Carrying Capacity:

13 amps

Temperature Range

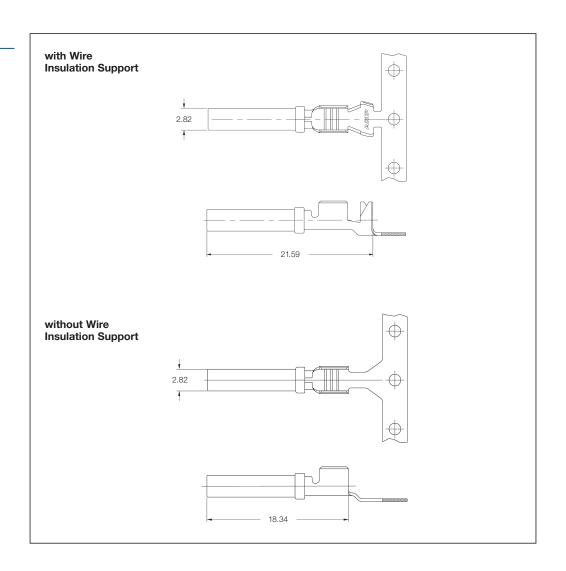
-40 °C to +125 °C

Product Specification:

108-2184

Application Specification:

114-13045



Receptacle Contacts with Wire Insulation Support

	Size	Insulation	Material	Part Numb			Numbers	nbers		
(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			
0.0-0.8	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	114-13	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						
(mm²)	(AWG)	Diameter (mm)	and Finish	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator	Hand Tool	
0000	10 14	2.18–3.67	Copper Alloy, Gold	776491-1	4,000	776297-1	1,000	See Application	Specification	
0.0-2.0	0.8–2.0 18–14	2.18-3.67	Copper Alloy, Nickel	776491-2	4,000	776297-2	1,000	114-10	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 mm² (20-14 AWG)

Insulation Diameter:

1.27-3.67 mm

Current Carrying Capacity:

13 amps

Temperature Range

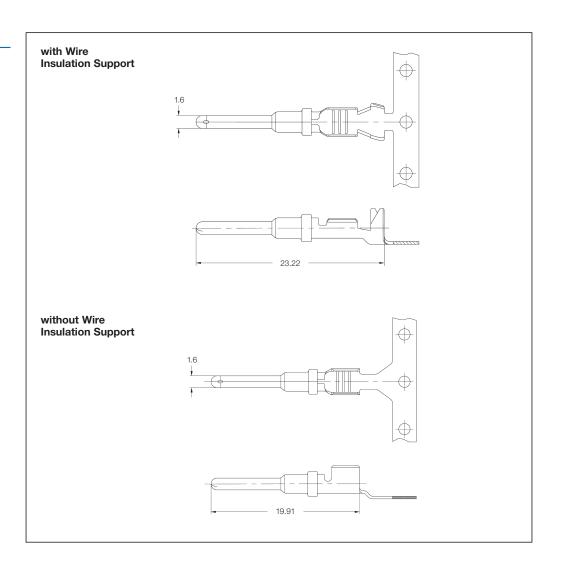
 $-40~^{\circ}\text{C}$ to $+125~^{\circ}\text{C}$

Product Specification:

108-2184

Application Specification:

114-13045



Pin Contacts with Wire Insulation Support

	Size	Insulation	Material	Part Numbe			Numbers	pers		
(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 Insulati		Material	Part Numbers						
(mm²)	(AWG)	Diameter (mm)	and Finish	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator	Hand Tool	
		0.40.0.07	Copper Alloy, Gold	638112-1	4,000	776298-1	1,000	See Application	Specification	
0.8–2.0	18–14	2.18–3.67	Copper Alloy, Nickel	638112-3	4,000	776298-2	1,000	114-1	3045	

Note: All Part Numbers are RoHS and ELV compliant.

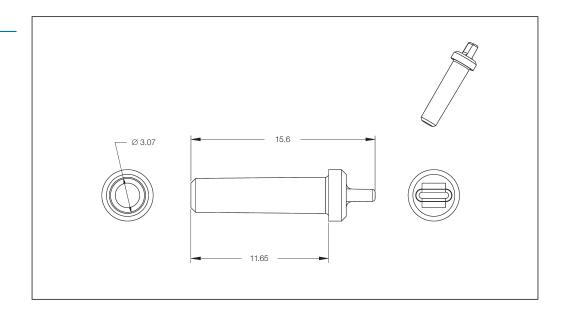
AMPSEAL 16 Connector System Contact System

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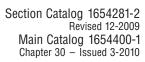
Cavity Plugs for Unsealed Cavity

Technical Features

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

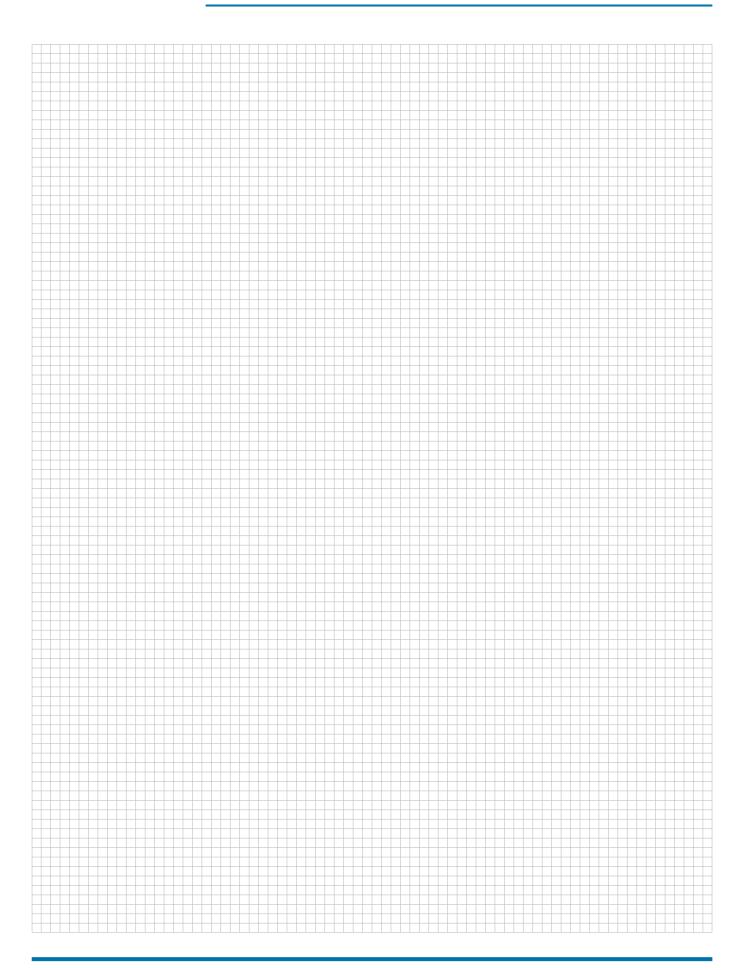


	Contact Cavity Size		Color	Part Number	Package Quantity	
	(mm)	(AWG)			Quantity	
Standard Diameter	3.07	16	Yellow	776363-1	10,000	
Reduced Diameter	2.55	20	White	776364-1	10,000	





Engineering Notes



Housings and Connectors

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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)

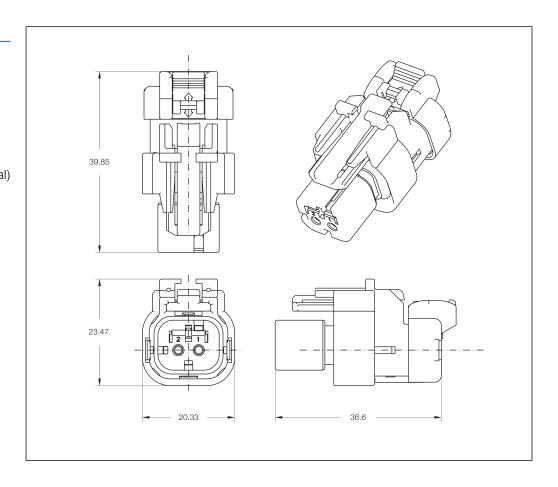
Product Specification:

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. OI		Part Numbers			
Positions	PLR Color	Keying	Receptacle (Plug) Housing	Mating Pin (Cap) Housing		
	Dod	Red Key A 776427-1	776407 1	776428-1		
	Red	Key A	110421-1	1717672-1		
		Key B	776427-2	776428-2		
2	Gray	Key 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	vel D	110421-4	1717672-4		

No. of	PLR Color	Vi	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		

Housings and Connectors

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)

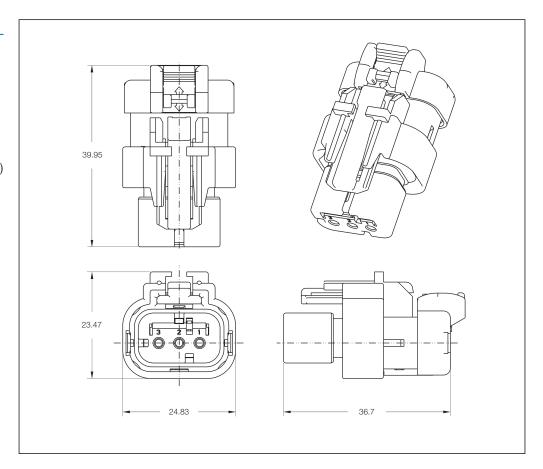
Product Specification:

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 Color	Varian	Part Nu	umbers
Positions	PLR Color	Keying	Receptacle (Plug) Housing	Mating Pin (Cap) Housing
	Red	Kov A	776429-1	776430-1
	Rea	Key A	770429-1	1717673-1
	Crov	Key B	776429-2	776430-2
3	Gray	rey b	110429-2	1717673-2
3	Vallow	Key C	776429-3	776430-3
	Yellow	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)

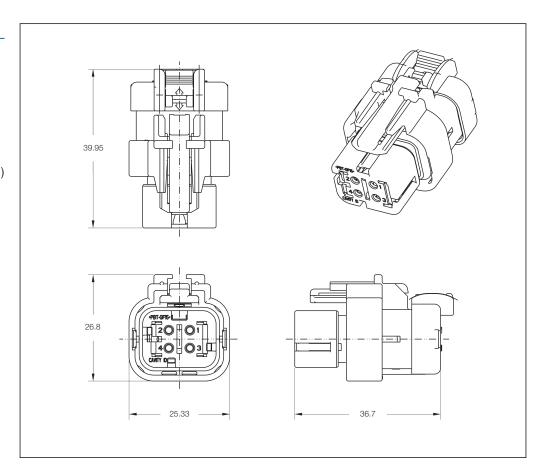
Product Specification:

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 O-I	Varian	Part Numbers			
Positions	PLR Color	Keying	Receptacle (Plug) Housing	Mating Pin (Cap) Housing		
	Red	Kov A	776487-1	776488-1		
		Key A	110401-1	1717674-1		
	Crov	Key B	776487-2	776488-2		
4	Gray	rey b	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	DI D. Color	Varian	Part Numbers	
	PLR Color	Keying		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 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)

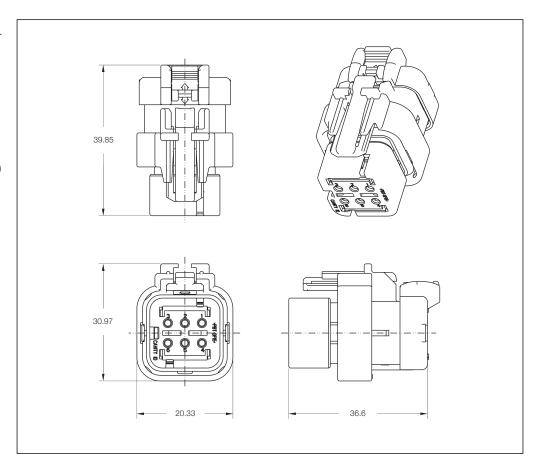
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108-2184

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	Vi	Part Numbers		
Positions	PLR Color	Keying	Receptacle (Plug) Housing	Mating Pin (Cap) Housing	
	Red	Kov A	776433-1	776434-1	
	neu	Key A	110433-1	1717675-1	
6	Crov	Kov P	770400.0	776434-2	
6 Gray Yellow	Gray	Key B	776433-2	1717675-2	
	Vollow	Kov C	776400 0	776434-3	
	rellOW	Key C	776433-3	1717675-3	

No. of	PLR Color	Varian	Part Numbers	
Positions	PLR Color	Keying	Receptacle (Plug) Housing	Mating Pin (Cap) Housing
	Red	17. 4	776531-1	776537-1
	Red	Key A	770031-1	1717975-1
6	Crov	Kov P	Kev B 776531-2	776537-2
O	Gray	Key B 77653	110551-2	1717975-2
	Yellow	Key C	776531-3	776537-3
	reliow	Ney C	110031-3	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)

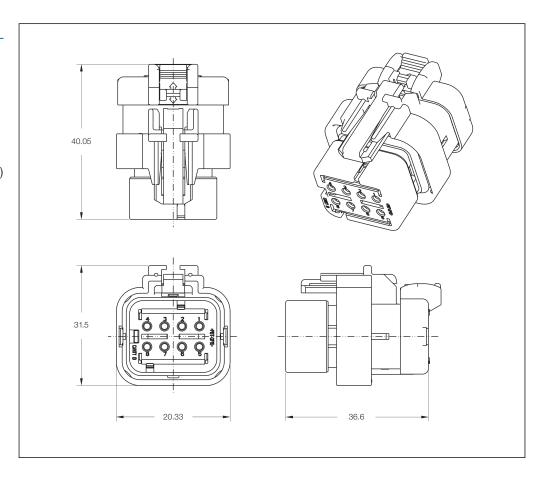
Product Specification:

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 Numbers		
Positions	PLR Color	Keying	Receptacle (Plug) Housing	Mating Pin (Cap) Housing	
	Red	Key A	776494-1	776495-1	
	neu	Ney A	1717	1717676-1	
	Crov	Key B	776494-2	776495-2	
8	Gray	Key D		1717676-2	
0	Yellow	Key C	776494-3	776495-3	
	rellow	Key C		1717676-3	
	Green	Key D	776494-4	776495-4	
	Green	Ney D	110494-4	1717676-4	

No. of Positions	PLR Color Kevina		Part Numbers	
	PLR Color	Keying	Part Numbers Receptacle (Plug) Housing Mating Pin (Cap) Housing 776532-1 776538-1 776532-2 776538-2 776532-3 776538-3	
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)

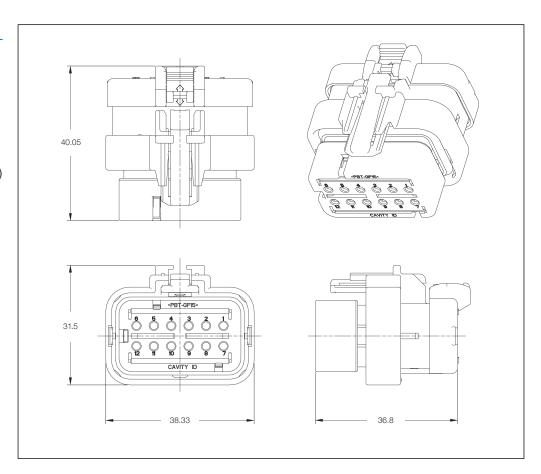
Product Specification:

108-2184

 ${\bf Application\ Specification:}$

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	V	Part Numbers	
Positions	PLR Color	Keying	Receptacle (Plug) Housing	Mating Pin (Cap) Housing
	Red	Key A	776497 1	776538-1
	neu	Key A	776437-1	
	Gray	Key B	776437-2	776538-2
12	Gray	Key b	110431-2	1717677-2
12	Yellow	Kov C	776437-3	776538-3
	fellow	Key C 7764:	110431-3	1717677-3
	Green	Kov D	776407-4	776538-4
	Green	Key D	776437-4	1717677-4

No. of Positions	DI D O-I		Part Numbers	
	PLR Color	Keying	Receptacle (Plug) Housing	Mating Pin (Cap) Housing
	Dod	Key A	776533-1	776539-1
Red	neu	Ney A	776533-1	1717934-1
	Crov	Kov B	776533-2	776539-2
10	Gray	Key B		1717934-2
12 Yellow Green	Vollow	Key C	776533-3	776539-3
	reliow			1717934-3
	Croon	Kov D	776533-4	776539-4
	GIEELI	Key D	776533-4	1717934-4

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)

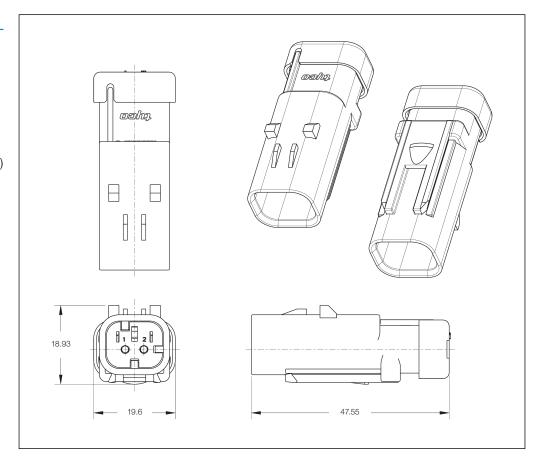
Product Specification:

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	Part Numbers	
	PLR Color	Keying	Pin (Cap) Housing	Mating Receptacle (Plug) Housing 776427-1 776427-2
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

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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

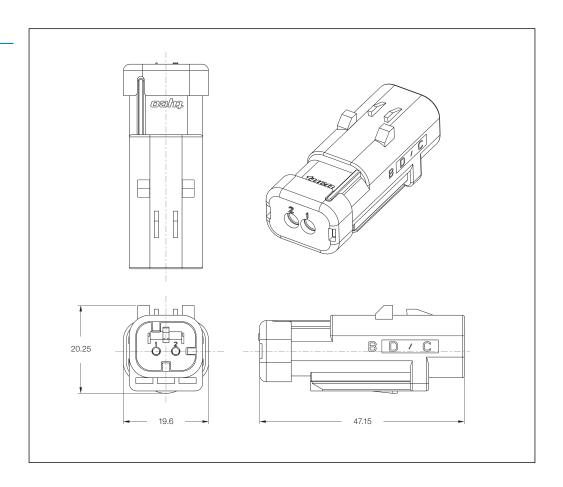
Product Specification:

108-2184

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	Part Numbers	
	PLR Color	Keying	Pin (Cap) Housing Mating Receptacle (Plug) 1717672-1 776427-1	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

Housings and Connectors

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)

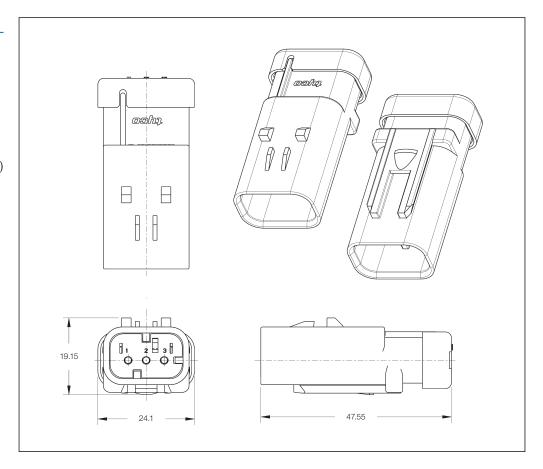
Product Specification:

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	Р	art Numbers
	PLR Color	Keying	Pin (Cap) 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	PLR Color	Vi	Р	art 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

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

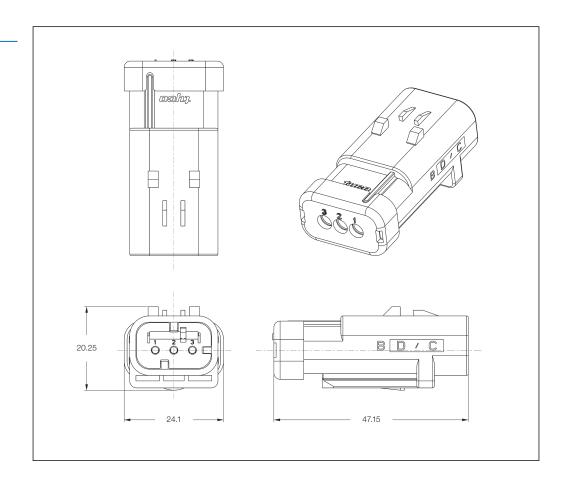
Product Specification:

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	Wastin a	Part Numbers	
	PLR Color	Keying	1717673-1 776429-1	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

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

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)

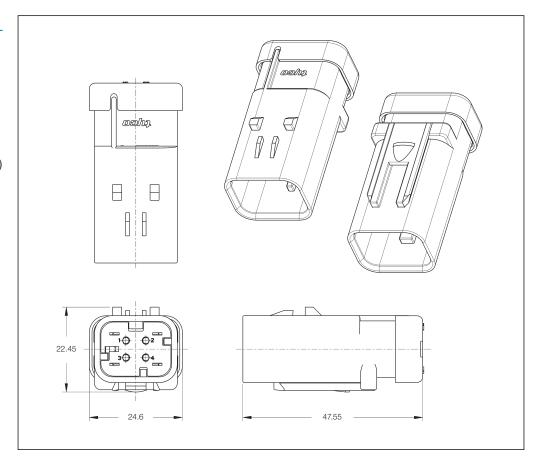
Product Specification:

108-2184

 ${\bf Application\ Specification:}$

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	Varian	Part Numbers	
	PLR Color	Keying		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

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

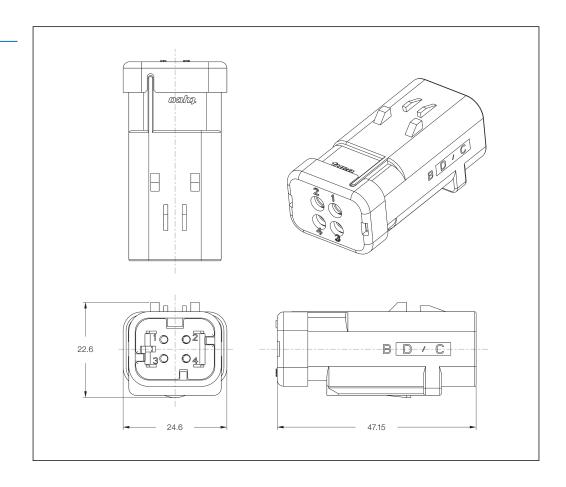
Product Specification:

108-2184

 ${\bf Application\ Specification:}$

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 Positions	PLR Color	Varian	Part Numbers	
	PLR Color	Keying	Pin (Cap) Housing Mating Receptacle (Plug) 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

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

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)

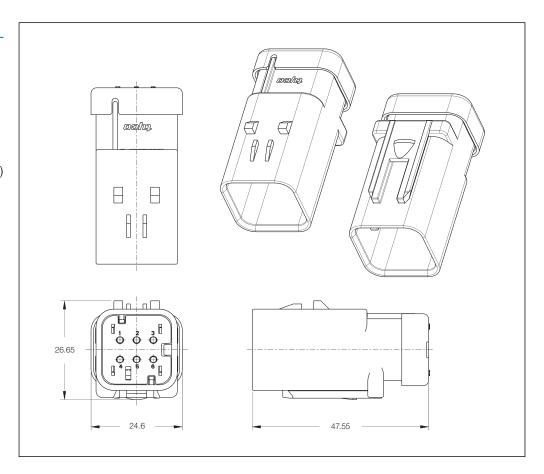
Product Specification:

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	DI D O-I		Part 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	PLR Color Keving	Part 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)

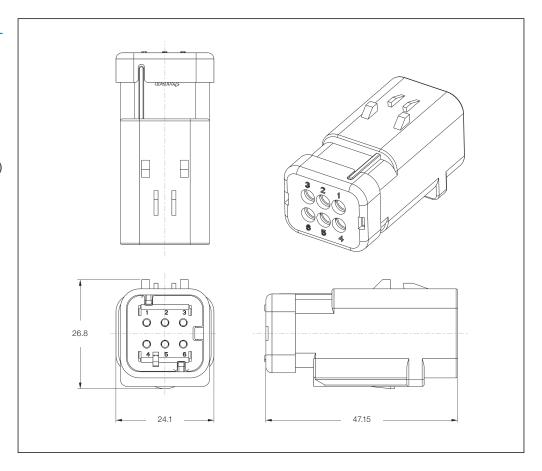
Product Specification:

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	DI D. OI		Part 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	Varian	Part Numbers	
Positions	PLR Color	Keying	Pin (Cap) Housing Mating Receptacle (Plug) H	
	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)

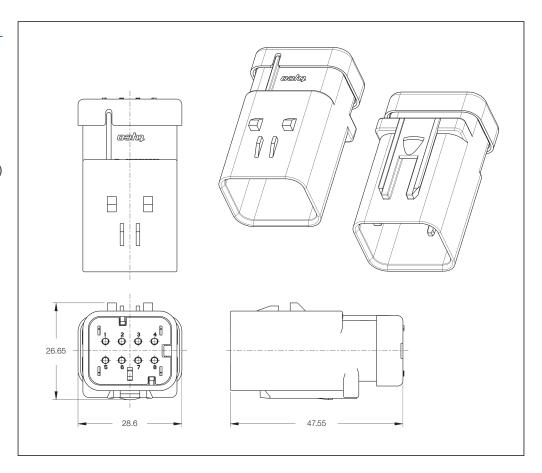
Product Specification:

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	Varian	Part Numbers	
	PLR Color	Keying		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	Р	art 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
8	Yellow	Key C	776538-3	776532-3
	Green	Key D	776538-4	776532-4

AMPSEAL 16 Connector System Housings and Connectors

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

Technical Features

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

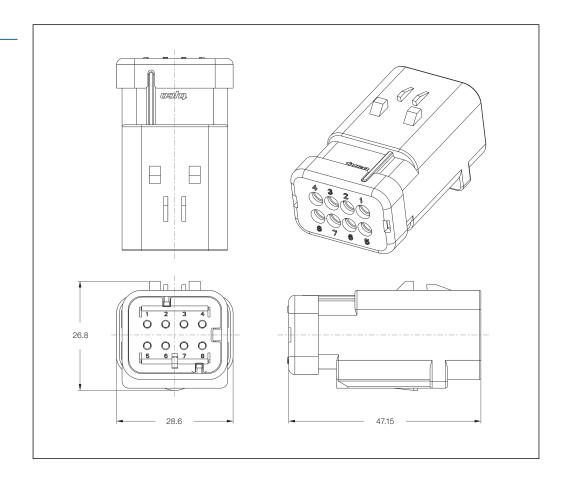
Housing Material:Glass Reinforced PBT

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)

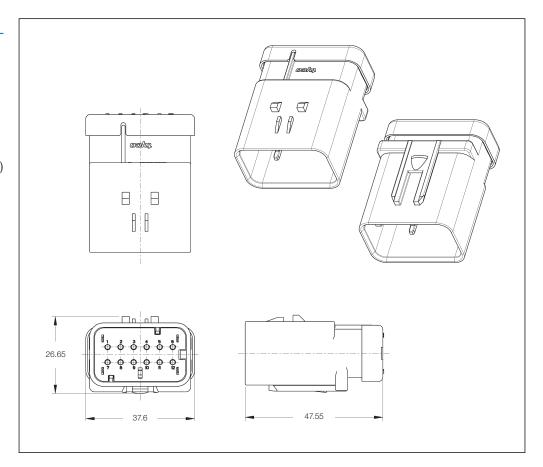
Product Specification:

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		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	PLR Color Kevina		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)

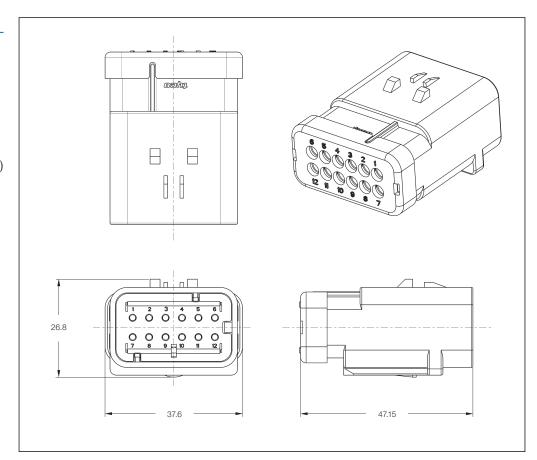
Product Specification:

108-2184

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	Р	art Numbers
Positions	PLR Color	Keying	Pin (Cap) Housing	Mating Receptacle (Plug) Housing
10	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	PLR Color	Varian	Р	art 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

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 POSILIOIT/ 90 EXIL/ INC 06	Cap Type	2098436-1
3 Position / 90° Exit / NC 08	Plug Type	2035366-2
3 POSILIOIT/ 90 EXIL/ INC 06	Cap Type	2098436-2
4 Position / 90° Exit / NC 08	Plug Type	2035366-7
4 FUSILIOIT / BU EXIL / INC UO	Cap Type	2098436-7
6 Position / 90° Exit / NC 08	Plug Type	2035366-8
0 POSILIOIT/ 90 EXIL/ INC 00	Cap Type	2098436-8
2 Position / 90° Evit / NC 12	Plug Type	2035366-3
2 Position / 90° Exit / NC 12	Plug Type Cap Type	2035366-3 2098436-3
2 Position / 90° Exit / NC 12 3 Position / 90° Exit / NC 12	Cap Type	2098436-3
3 Position / 90° Exit / NC 12	Cap Type Plug Type	2098436-3 2035366-4
	Cap Type Plug Type Cap Type	2098436-3 2035366-4 2098436-4
3 Position / 90° Exit / NC 12	Cap Type Plug Type Cap Type Plug Type	2098436-3 2035366-4 2098436-4 2035366-9

Note: All Part Numbers are RoHS and ELV compliant.

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 NW7.5	2035047-1*	Plug Assy 2035048-1*		776522-ALL	•	
	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	2000041-2	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	7.5	Cap Assy		8436-8	776434-ALI
					776537-ALL	
2 NC12		Plug Assy		5366-3	776427-ALI	
	_	- -		776522-ALL		
	NW10	0	Cap Assy	Con Apply	8436-3	776428-ALI
			Οαρ Ασσγ		776534-ALL	
			Plug Assy		5366-4	776429-ALI
3	NC12	_	2035048-6*		776523-ALL	
0	NW10 - 2005046-6 Cap Assy	.W10		8436-4	776430-ALI	
					776535-ALL	
		Plua	Plug Assy		5366-9	776487-ALI
4	NC12	2035047-5 *	2035048-7*		776524-ALL	
	NW10		Cap Assy		8436-9	776488-ALI
					776536-ALL	
				1-2035366-0	776433-ALL	- Plug Assy
6	NC12	2035047-6 *	_		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	
				_		- 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 Conduit Positions Size	0			Part Numbers		
		Standard Straight	Standard 90°	Low Profile 90°	Mating Connectors	Туре
				776427-ALL	DI A	
0	NC16			-	776522-ALL	Plug Assy
2	NW13	_	_		776428-ALL	0 4
				_	776534-ALL	Cap Assy
					776429-ALL	Plug Assy
3	NC16			_	776523-ALL	Plug Assy
3	NW13	_	_		776430-ALL	Con Assu
				_	776535-ALL	Cap Assy
					776487-ALL	Diver A-
4	NC16	_	776524-ALL	Plug Assy		
4 NW13			776488-ALL	Can Assu		
					776536-ALL	Cap Assy
					776433-ALL	Plug Assy Cap Assy
6	NC16	NC16			776531-ALL	
O	NW13		_		776434-ALL	
			_	776537-ALL	Uap Assy	
	NC16 2035047-9* -		-	776494-ALL	Plug Assy	
8				776532-ALL		
0			776495-ALL	O A		
				-	776538-ALL	Cap Assy
					776437-ALL	Dlug Assi
12	NC16	1-2035047-0 *	·	776533-ALL	Plug Assy	
12	NW13	1-2033047-0			776438-ALL	Can Asses
				_	776539-ALL	Cap Assy
					776437-ALL	Dlug Accur
10	NC20	1 0005047 1 *			776533-ALL	Plug Assy
12	NW17	1-2035047-1*	_		776438-ALL	Cap Assy
				_	776539-ALL	

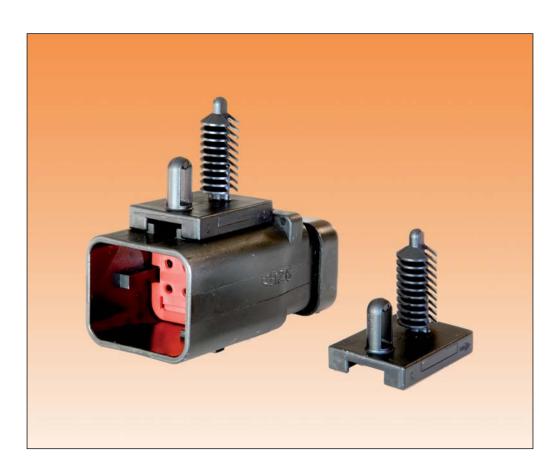
Note: *) Backshell available only with latch window. Can be used for Cap Assembly if desired.

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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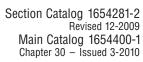
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