

Introduction













The diameter 1.5 mm and diameter 2.5 mm Connector System is designed for electronic and electrical applications in motor vehicles.

It fullfils all requirements for a connector system for use in automobiles and covers a wide range of applications.

Contacts

- Basic material (CuNiSi) with high current capacity
- Rugged two-piece construction with stainless steel jacket
- Six points of contact (2.5 mm System) and five points of contact (1.5 mm System)
- 2.5 mm System wire range 0.2–4.0 mm²
- 1.5 mm System wire range 0.2–2.5 mm²

Connectors

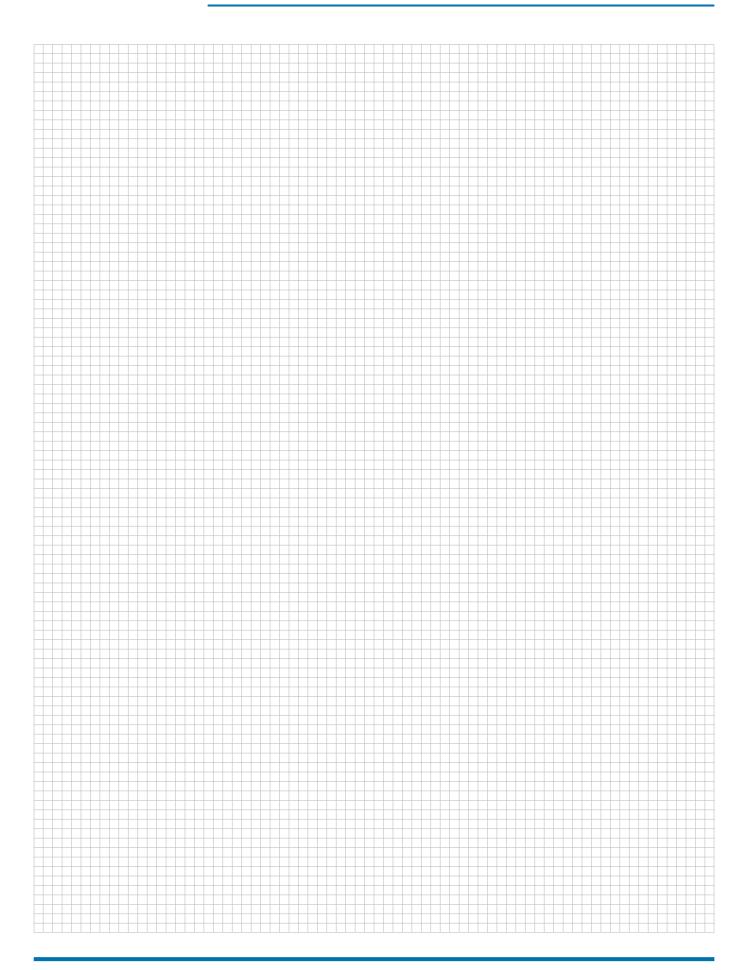
- High reliability status supported for long term use
- High vibration level supported
- Perfect design to avoid quality problems, reduce manufacturing and service cost
- Integrated secondary locking device delivered in pre-locked position
- Wire-to-Wire sealed and unsealed connectors (SWS)
- Wire-to-Board sealed and unsealed connectors (SWS)

- Polarisation, several keyings
- Locking mechanism for smaller connectors/mating aid for higher numbers of ways
- Sealed Circular Connector Series (SCCS)
- Injector Connectors
- Miscellaneous Sealed Connectors for Circular Contacts

Connector System for Circular Contacts

Section Catalog 1654286-2 Revised 12-2009 Main Catalog 1654400-1 Chapter 26 – Issued 3-2010

Engineering Notes



Circular Contact SystemsDiameter 1.5 mm and 2.5 mm Contact System

Section Catalog 1654286-2 Revised 12-2009 Main Catalog 1654400-1 Chapter 26 – Issued 3-2010

Introduction













The diameter 1.5 mm and diameter 2.5 mm round contact systems developed by Tyco Electronics is mainly used in the automotive industry. Due to its wide range of performance possibilities, this contact system is in use in the engine compartment for aggregate or sensor connections.

Every contact has got a steel cantilever spring and a copper alloy body.

The two-piece contact design means that the electrical and mechanical properties are separated. One end of the contact body is crimped to wire and the other end mates with the matching pin.

The closed cantilever spring has got several functions and also different advantages for the complete contact system.

In addition there are several lances on the steel to spring. These serve to look the contact securely in the housing.

Sockets and pins can be applied on both sealed and unsealed connectors.

The diameter 1.5 mm and diameter 2.5 mm contact system can be fast and economically arranged to the lead using Tyco Electronics application tooling.

Technical Features

- 100 % quality assurance for the contact socket
- Resistant against fretting corrosion
- Vibration resistant
- Excellent longevity
- Low contact resistance
- High position configurations
- Contact design accepts secondary locking device
- Several contact points
- Sturdy contact design
- Guarantees constant insertion and extraction forces

Socket and Pin Contacts

Technical Features

Wire Size Range: 0.2-2.5 mm²

Insulation Diameter:

1.2-3.0 mm

Contact Material:

CuNiSi, CuNi18Zn20, CuFe2

Contact Finish:

Tin plated, silver plated, gold plated, plain

Temperature Range

-40 °C to +130 °C (tin plated) -40 °C to +140 °C (silver plated) -40 °C to +150 °C (gold plated) -40 °C to +150 °C (plain)

Current Carrying Capacity:

Up to 30 A max.

Product Specification:

108-18028

Application Specification:

114-18040

Extraction Tool:

Part No. 539972-1

(Socket Contact)

Part No. 3-1579007-7

(Pin Contact)

Spare Tube:

Part No. 5-1579007-0

(Socket Contact)

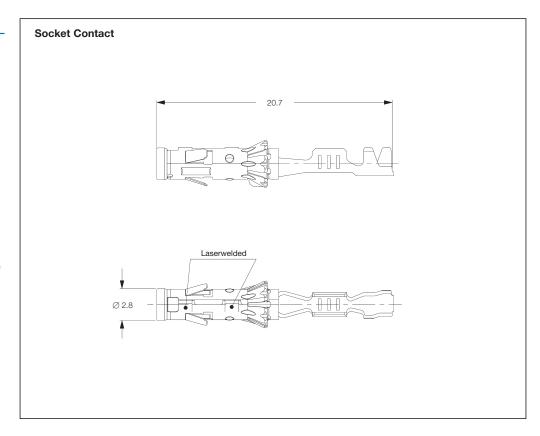
Part No. 3-1579007-8

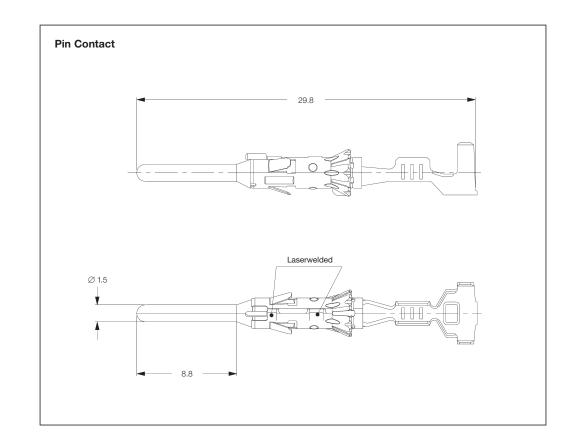
(Pin Contact)

Terminal Mounting Tool:

(for 0.2-1.0 mm²)

Part No. 965702-1





Circular Contact SystemsDiameter 1.5 mm Contact System

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Socket Contacts

Diameter 1.5 mm Socket Contacts

Wire Size Range		n Diameter	Material	Part Numbers						
(mm²)	FLK	mm) FLR	and Finish	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator *	Hand Tool◆	
0.2-0.4	_	1.15–1.6	tin plated	929985-1	5,000	962994-1	500	878480	734285-1	
0.5.1.0		1.4.0.1	Alle selected	929986-1	4,500	962995-1	500	070404	704005 1	
0.5–1.0	-	1.4–2.1	tin plated	929986-4	5,000	962995-4	500	878481	734285-1	
≥1.0-2.5	-	1.9–3.0	tin plated	929987-1	3,800	962996-1	500	878482	734285-2	

*) Contact Material:

xxx-1 = CuNiSi

xxx-4 = CuFe2

Note: All Part Numbers are RoHS and ELV compliant.

Diameter 1.5 mm Socket Contacts with Single Wire Sealing System

Wire Size		n Diameter	Matadal			Part	Numbers				
(mm²)	FLK	nm) FLR	Material and Finish	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator *	Hand Tool *		
0.2-0.4	_	1.2–2.1	tin plated	929988-1	4,000	962997-1	500	878484	734289-1		
0.2-0.4		1.2-2.1	silver plated	929988-2	4,000	962997-2	500	070404	734209-1		
			tin plated	929989-1	4,000	962998-1	500				
	-	- 1.2–2.1	1.2–2.1	- 1.2-2.1	silver plated	929989-7	4,000	962998-7	500		
0.5-1.0					- 1.2-2.1	gold plated	929989-8	4,000	-	-	878485
			plain	1-929989-0	4,000	1-962998-0	500				
			tin plated	929989-4	4,000	962998-4	500				
			Alle selected	929990-1	3,800	962999-1	500				
~ 1.0.0.5	tin plated	- 2.2-3.0 -	tin plated	929990-4	3,800	962999-4	500	070400	70.4000.0		
≥1.0-2.5	±1.0-2.5 - 2.2-3.0		silver plated	929990-7	3,800	962999-7	500	878486	734289-2		
			plain	1-929990-0	3,800	1-962999-0	500				

*) Contact Material:

xxx-1 = CuNiSi

xxx-2 = CuNiSi

xxx-4 = CuFe2

xxx-7 = CuNiSi

xxx-8 = CuNiSi1-xxx-0 = CuNi18Zn20

*) This Applicator and Hand Tool Part Number is only one of a part number selection. Please call your local Tyco Electronics representative for personal assistance or visit our website.

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Circular Contact SystemsDiameter 1.5 mm Contact System

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Pin Contacts

Diameter 1.5 mm Pin Contacts with Single Wire Sealing System

Wire Size		n Diameter	Material			Part	Numbers		
Range (mm²)	FLK (r	nm) FLR	and Finish	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator *	Hand Tool *
0.2-0.4 -		1.2–2.1	tio plated	1703012-1	4,000	1703016-1	500	070404	704000 1
	_	- 1.2-2.1	tin plated	1703012-4	4,000	1703016-4	500	878484	734289-1
		- - 1.2-2.1 -	tin plated	1703013-1	3,500	1703017-1	500		
0.5–1.0			silver plated	1703013-2	3,500	1703017-2	500		734289-1
0.5-1.0	_		gold plated	1703013-8	3,500	-	-		734209-1
			tin plated	1703013-4	3,500	1703017-4	500		
≥1.0-2.5		- 2.2–3.0		1703014-1	3,500	1703018-1	500	070406	724000 0
	_			1703014-4	3,500	1703018-4	500	878486	734289-2

*) Contact Material:

xxx-1 = CuNiSi

xxx-2 = CuNiSi

xxx-4 = CuFe2

xxx-8 = CuNiSi

^{*)} This Applicator and Hand Tool Part Number is only one of a part number selection. Please call your local Tyco Electronics representative for personal assistance or visit our website.

Socket and Pin Contacts

Technical Features

Electronics

Wire Size Range: 0.2-4.0 mm²

Insulation Diameter:

1.15-3.6 mm

Contact Material:

CuNiSi, CuFe2

Contact Finish:

Tin plated, silver plated, gold plated

Temperature Range

-40 °C to +130 °C (tin plated) -40 °C to +140 °C (silver plated) -40 °C to +150 °C (gold plated)

Current Carrying Capacity: Up to 40 A max.

Product Specification:

108-18027

Application Specification:

114-18020

Extraction Tool:

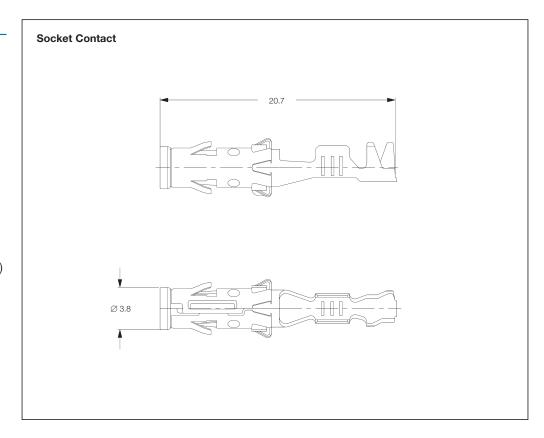
Part No. 1-1579007-8

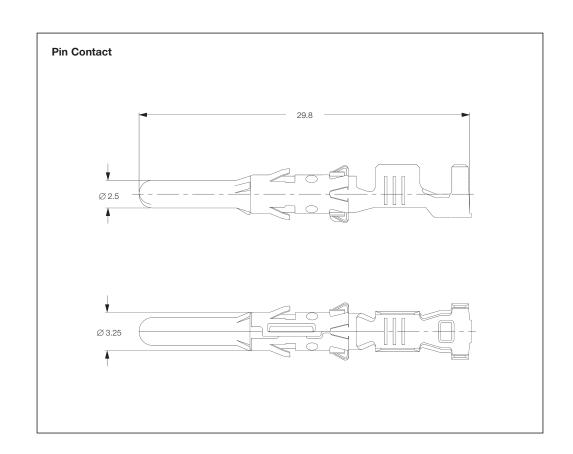
Spare Tube:

Part No. 4-1579007-7

Terminal Mounting Tool: (for 0.2–1.0 mm²)

Part No. 3-1579007-2





Circular Contact SystemsDiameter 2.5 mm Contact System

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Socket Contacts

Diameter 2.5 mm Socket Contacts

Wire Size		on Diameter			Part Numbers						
(mm²)	FLK	mm) FLR	Material and Finish	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator *	Hand Tool *		
0.2-0.4	-	1.15–1.6	tin plated	929969-1	3,000	962976-1	500	878480	734285-1		
			tin plated	929970-1	3,000	962977-1	500				
0.5-1.0		1.4–2.1	silver plated	929970-7	3,000	962977-7	500	878481	734285-1		
			gold plated	929970-8	3,000	962977-8	500				
			tin plated	929971-1	3,000	962978-1	500				
≥1.0-2.5		1.9–3.0	silver plated	929971-7	3,000	962978-7	500	878482	734285-2		
		-	gold plated 929971-8 3,000 962978-8 500	500							
≥2.5–4.0		2.7–3.0	tin plated	929972-1	3,000	962979-1	500	878483	734285-3		

*) Contact Material:

xxx-1 = CuNiSi

xxx-7 = CuNiSi

xxx-8 = CuNiSi

Note: All Part Numbers are RoHS and ELV compliant.

Diameter 2.5 mm Socket Contacts with Single Wire Sealing System

Wire Size		n Diameter	Material			Part	Numbers				
Range (mm²)	FLK (n	nm) FLR	and Finish	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator *	Hand Tool◆		
0.2-0.4		1.2–2.1	tin plated	929973-1	3,000	962980-1	500	878484	734289-1		
			tin plated	929974-1	3,000	962981-1	500				
	_	1.2–2.1	gold plated	929974-8	3,000	962981-8	500		734289-1		
0.5-1.0			silver plated	929974-7	3,000	962981-7	500	878485			
			Silver plated	1-929974-4	3,000	1-962981-4	500				
			-		tin plated	929974-4	3,000	962981-4	500		
			tin plated	929975-1	3,000	962982-1	500				
≥1.0–2.5		2230	gold plated	929975-8	3,000	962982-8	500	878486	734289-2		
≥1.0-2.5)–2.5 – 2.2–3.0 – –	- 2.2-3.0 - -	silver plated	929975-7	3,000	962982-7	500	070400	104209-2		
			tin plated	929975-4	3,000	962982-4	500				

*) Contact Material:

xxx-1 = CuNiSi

xxx-4 = CuFe2

xxx-7 = CuNiSi

xxx-8 = CuNiSi 1-xxx-4 = CuNiSi

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Circular Contact SystemsDiameter 2.5 mm Contact System

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Pin Contacts

Diameter 2.5 mm Pin Contacts

Wire Size		n Diameter	Material and Finish			Part	Numbers		
(mm²)	FLK	mm) FLR		Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator *	Hand Tool *
0.2-0.4	-	1.15–1.6	tin plated	929962-1	3,500	962966-1	500	878480	734285-1
			tin plated	929963-1	3,500	962967-1	500		
0.5-1.0	-	1.4–2.1	gold plated ——	929963-8	3,500	962967-8	500	878481	734285-1
				1-929963-0	3,500	1-962967-0	500		
~1005		1000	tin plated	929964-1	3,500	962968-1	500	070400	704005.0
≥1.0–2.5	_	- 1.9 - 3.0 -	gold plated	1-929964-0	3,500	1-962968-0	500	878482	734285-2
≥2.5-4.0	-	2.7–3.6	tin plated	929965-1	2,500	962969-1	500	878483	734285-3

*) Contact Material:

xxx-1 = CuNiSi

xxx-4 = CuFe2

xxx-8 = CuNiSi

1-xxx-0 = CuFe2

Note: All Part Numbers are RoHS and ELV compliant.

Diameter 2.5 mm Pin Contacts with Single Wire Sealing System

Wire Size		n Diameter	Material			Part	Numbers			
(mm²)	FLK	nm) FLR	and Finish	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator *	Hand Tool◆	
0.2–0.4		1.2–2.1	tin plated	929966-1	3,500	962970-1	500	878484	734289-1	
0.2-0.4	.+ 1.2-2.1	.4 – 1.2–2.1	1.2-2.1	silver plated	929966-7	3,500	962970-7	500	070404	734209-1
			tin plated	929967-1	3,000	962971-1	500			
			ailyar platad	929967-7	3,000	962971-7	500			
0.5-1.0	-	- 1.2-2.1	silver plated	1-929967-4	3,000	1-962971-4	500	878485	734289-1	
			gold plated	929967-8	3,000	962971-8	500			
				1-929967-0	3,000	1-962971-0	500			
			tin plated	929967-4	3,000	962971-4	500			
			tin plated	929968-1	3,000	962972-1	500			
≥1.0–2.5		0.0.00	silver plated	929968-7	3,000	962972-7	500	878486	734289-2	
≥1.0-2.5	_	- 2.2-3.0 - -	gold plated	929968-8	3,000	962972-8	500	070400	134209-2	
			tin plated	929968-4	3,000	962972-4	500			

*) Contact Material:

xxx-1 = CuNiSi

xxx-4 = CuFe2

xxx-7 = CuNiSi

xxx-8 = CuNiSi

1-xxx-0 = CuFe2

^{*)} This Applicator and Hand Tool Part Number is only one of a part number selection. Please call your local Tyco Electronics representative for personal assistance or visit our website.

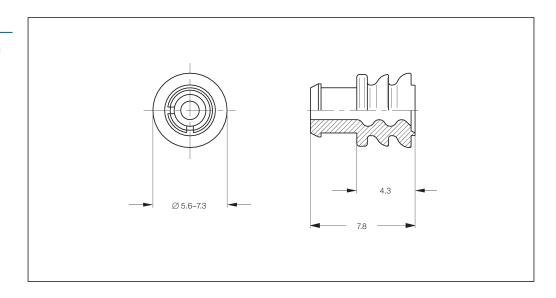
^{*)} This Applicator and Hand Tool Part Number is only one of a part number selection.

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Single Wire Seals and Sealing Plugs

Technical Features

- 1.5 mm and 2.5 mm system accomodates insulation diameters of 1.2–3.7 mm
- Made from silicon rubber material
- Wire seal is crimped simultaneously with the contact



Diameter 1.5 mm Pin and Socket Contact

	n Diameter nm)	Color	Part Number	Package	
FLK	FLR			Quantity	
			828904-1	1,000	
-	1.2-2.1	Light Blue	828904-2	10,000	
			828904-3	5,000	
-	2.2–3.0	White	828905-1	10,000	
Sealing Plug		Natural	828922-1	10,000	
Seall	ng riug	Green	828922-2	10,000	

Diameter 2.5 mm Pin and Socket Contact

	n Diameter nm)	Color	Part Number	Package Quantity
FLK	FLR			Quantity
-	1.2–2.1	Gray	828920-1	5,000
	2.2–3.0	Violet	828921-1	5,000
_	2.2-3.0	Yellow	828921-2	5,000
Sealing Plu	ug for cavities	Natural	828922-1	10,000
up to diamet	er 3.0 mm wire	Green	828922-2	10,000
	ug for cavities er 3.7 mm wire	Natural	828986-1	5,000

Introduction













The diameter 1.5 mm and diameter 2.5 mm Connector System offers receptacle and pin housings with capability for waterproofing and resistance to conditions of extreme vibration.

The system is designed for electronic and electrical applications in motor vehicles, where vibrations and mechanical stress, in the long term, can affect the quality on the contacts system.

Features

- High reliability status supported for long term use
- High vibration level supported
- Perfect design to avoid quality problems, reduce manufacturing and service cost
- Integrated secondary locking device delivered in pre-locked position
- Wire-to-Wire sealed and unsealed connectors (SWS)
- Wire-to-Board sealed and unsealed connectors (SWS)
- Polarisation, several keyings
- Locking mechanism for smaller connectors/mating aid for higher numbers of ways

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Diameter 2.5 mm Connector Housings according ISO 15170 (DIN 72585)

Technical Features

No. of Positions:

2-4 Positions

Housing Material:

PBT GF 30 / PA 46-GF 30

Wire Size Range:

2.5 mm² Max.

Product Specification:

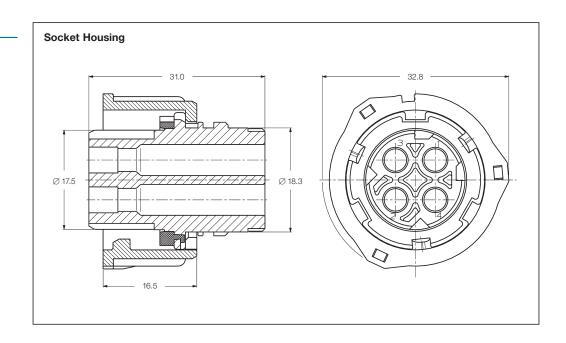
108-18621

Application Specification:

114-18255-0

 ${\bf Product\ Group\ Drawing:}$

1355392



Socket Housings

No. of	V	Harrison.			Part Numbers		
No. of Positions	Keying Options	Housing Color	Socket Housing	Cover	Mating Pin Housing	Mating PCI Right-Angle	3 Header Vertical
2			1-967325-3	*	1-967402-3		
3	1	Black	1-967325-2	*	1-967402-2	_	-
4			1-967325-1	*	1-967402-1	_	
2			2-967325-3	*	2-967402-3		
3	2	Gray	2-967325-2	*	2-967402-2	_	-
4			2-967325-1	*	2-967402-1	_	
2			3-967325-3				
3	3	Green	3-967325-2	*	-	-	-
4			3-967325-1				
2			4-967325-3				
3	4	Blue	4-967325-2	*	-	-	-
4			4-967325-1				

^{*)} Suitable Covers/Adapters see Accessories.

Diameter 2.5 mm Connector Housings according ISO 15170 (DIN 72585)

Technical Features

No. of Positions:

2-4 Positions

Housing Material:

PBT GF 20

Wire Size Range:

 $2.5\ mm^2\ Max.$

Product Specification:

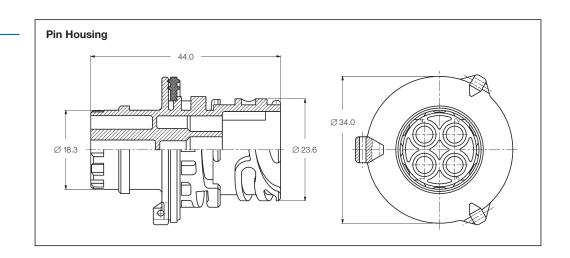
108-18621

Application Specification:

114-18255-0

Product Group Drawing:

1355392



Pin Housings

No. of	Karata a	Housing Color			Part Numbers		
No. of Positions	Keying Options		Pin Housing	Cover	Mating Socket Housing	Mating PC Right-Angle	B Header Vertical
					1-967325-3		
			1.007400.0		1-967325-2	•	
			1-967402-3		1-967325-1	•	
3	1	Black	1-967402-2	*	6-968968-3	-	_
4			1-967402-1		6-968968-2	•	
					6-968968-1		
2			2-967402-3		2-967325-3		
3	2 –	Gray	2-967402-2	*	2-967325-2	_	-
4	_		2-967402-1		2-967325-1	•	

^{*)} Suitable Covers/Adapters see Accessories.

Technical Features

No. of Positions:

4 Positions

Housing Material:

PBT GF 20

Material and Finish:

CuZn, tin plated

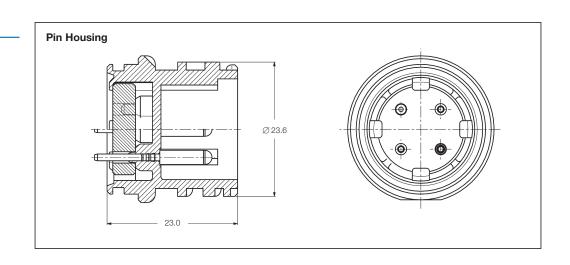
Wire Size Range:

2.5 mm² Max.

Product Specification:

108-18621

Application Specification:



Pin Housings

No. of	V		Part Numbers					
No. of Positions	Keying Options		Pin Housing with Ferrite Disc	Cover	Mating Socket Housing	Mating PCI Right-Angle	3 Header Vertical	
4	1	Black	1703780-1	-	1-967325-1 or 1-968968-1	-	-	

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Diameter 2.5 mm Connector Housings according ISO 15170 (DIN 72585)

Technical Features

No. of Positions: 2–4 Positions

2.5 mm² Max.

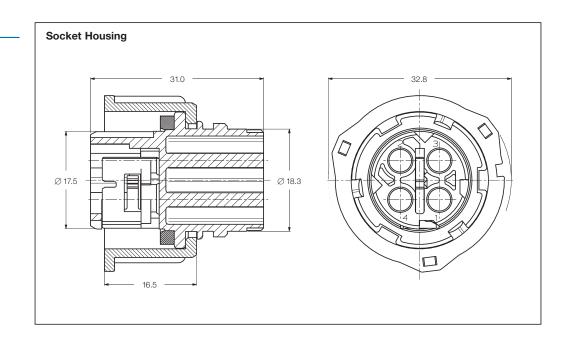
Housing Material: PBT GF 30 / PA 46-GF 30

Wire Size Range:

Product Specification: 108-18621

Application Specification: 114-18255-0

Product Group Drawing: 1355392



Socket Housings with Secondary Locking

No. of	No. of Keying Positions Options	Housing Color	Part Numbers				
Positions			Socket Housing	Cover	Mating Pin Housing	Mating PCI Right-Angle	3 Header Vertical
2			1-968968-3	*	1-967402-3		
3	1	Black	1-968968-2	*	1-967402-2	_	-
4			1-968968-1	*	1-967402-1	_	
2	2	Gray	2-968968-3	*	2-967402-3		

^{*)} Suitable Covers/Adapters see Accessories.

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Pin Housings, Solder Type according ISO 15170 (DIN 72585)

Technical Features

No. of Positions: 2/4 Positions

Housing Material:

PBT GF 20

Material and Finish:

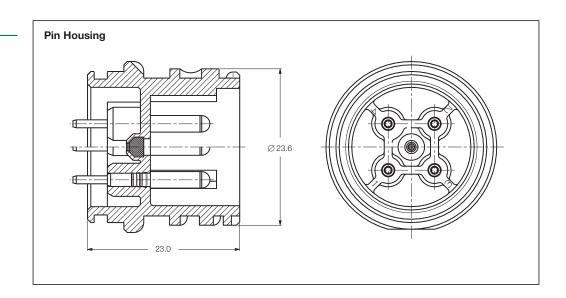
CuZn, tin plated CuZn, gold plated

Product Specification:

108-18621

Application Specification:

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Pin Housing

N	No. of Keving		Part Numbers					
No. of Positions	Keying Options	Housing Color	Right-Angle Pin Housing	Vertical Pin Housing with Ventilation Disk	Contact Plating	Mating Socket Housing		
				1394324-1	Tin	967325 or		
2/4	1	Black	-	1394324-2	Tin	968968		
				1394324-3	Gold	_		
3	2	Gray	_	1394324-4	Gold	_		

Note: All Part Numbers are RoHS and ELV compliant.

Technical Features

No. of Positions: 4 Positions

Housing Material: PBT GF 20

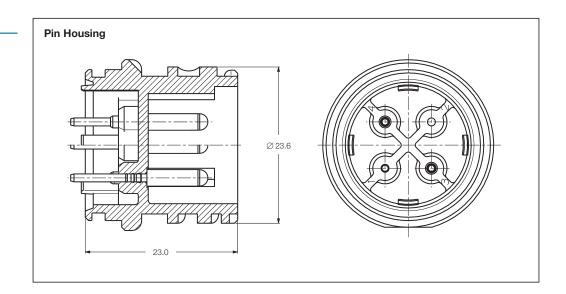
Material and Finish: CuZn, gold plated

Product Specification:

108-18621

Application Specification:

_



Pin Housing

No. of	No. of Keying Housin	Hausina	Part Numbers				
Positions	Options	Color	Right-Angle Pin Housing	Vertical Pin Housing	Mating Socket Housing		
4	1	Black	-	1241598-1	967325 or 968968		

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Diameter 1.5 mm Connector Housings

Technical Features

No. of Positions: 5–7 Positions

Housing Material: PBT GF 30 / PA 46-GF 30

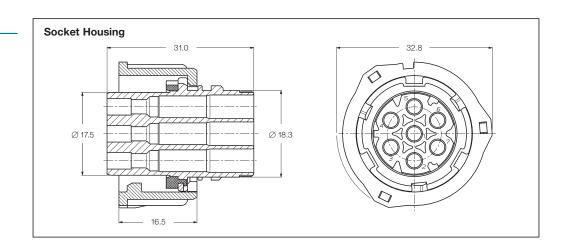
Wire Size Range: 2.5 mm² Max.

Product Specification:

108-18622

Application Specification: 114-18255-0

Product Group Drawing: 1355392



Socket Housings

No. of	V	eying Housing ptions Color	Part Numbers					
No. of Positions	Options		Socket Housing	Cover	Mating Pin Housing	Mating PCI Right-Angle	3 Header Vertical	
5	А	Black	967650-3	*	1718230-3	-	-	
	۸	Black	967650-2	*	1718230-2			
6	А	DIACK	967650-4	*	-		_	
	۸	Black	967650-1	*	1718230-1			
7	Α -	Blue	1-967650-1	*	1-1718230-1	_		
	В	Gray	2-967650-1	*	2-1718230-1	_	_	
	C	Green	3-967650-1	*	3-1718230-1	-		

^{*)} Suitable Covers/Adapters see Accessories.

Technical Features

No. of Positions:

5-7 Positions

Housing Material:

PBT GF 20

Wire Size Range:

2.5 mm² Max.

Product Specification:

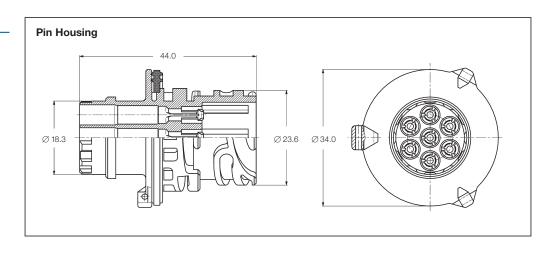
108-18622

Application Specification:

114-18255-0

Product Group Drawing:

1355392



Pin Housings

No. of	Keying	Housing Color	Part Numbers					
Positions	Options		Pin Housing	Cover	Mating Socket Housing	Mating PCI Right-Angle	3 Header Vertical	
5	А	Black	1718230-3	*	967650-3	-	-	
6	А	Black	1718230-2	*	967650-2	-	-	
	۸	Black	1718230-1	*	967650-1			
7	A ·	Blue	1-1718230-1	*	1-967650-1			
,	В	Gray	2-1718230-1	*	2-967650-1	_	_	
	C	Green	3-1718230-1	*	3-967650-1			

^{*)} Suitable Covers/Adapters see Accessories.

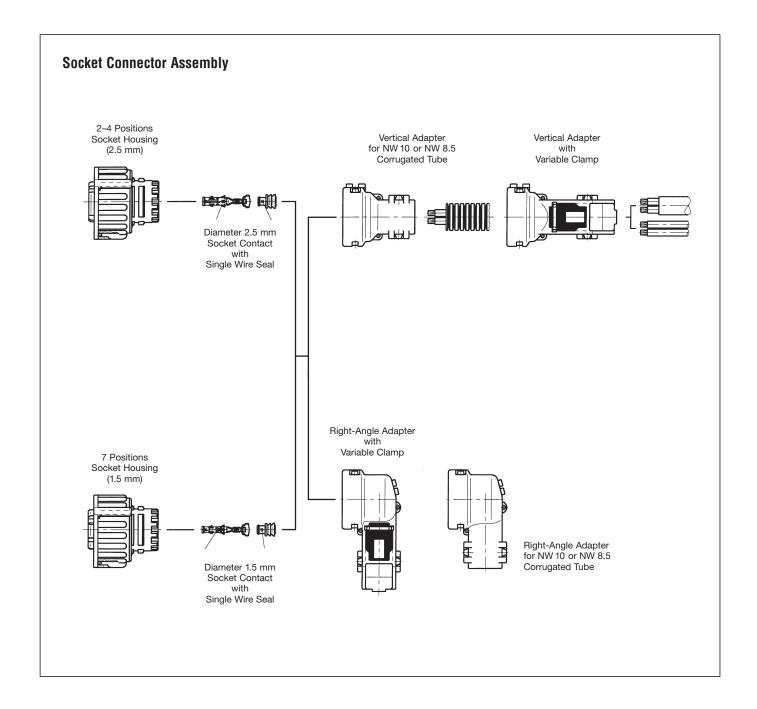
Accessories

Accessories

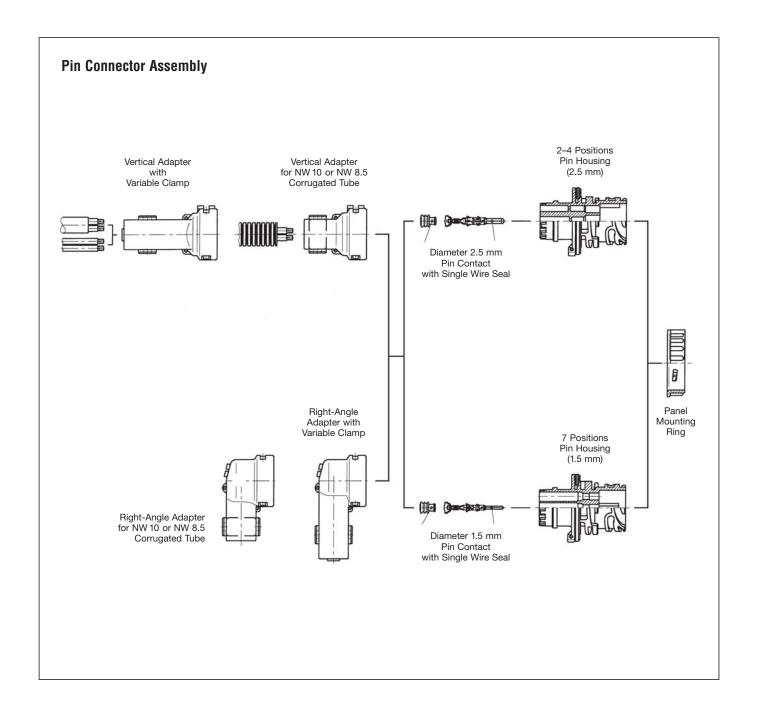


Description	Color	Part No.
Mounting ring for pin housing	Black	965687-1
Front cover for 2-4 pos. socket housing 967325	Black	185636-1
Erent cover for 2 / A pee, and 5 / pee, nin housing 067/02 and 1719/20	Black	1394277-1
Front cover for 2-4 pos. and 5-7 pos. pin housing 967402 and 1718230	DIACK	1394277-2
Right-angle adapter with universal clamp	Black	965576-1
Vertical adapter with universal clamp	Black	965784-1
Right-angle adapter for NW 7.5 mm diameter corrugated tubing	Black	185793-1
Right-angle adapter for NW 8.5 mm diameter corrugated tubing	Black	965577-1
Right-angle adapter for NW 10 mm diameter corrugated tubing	Black	965783-1
Vertical adapter for NW 7.5 mm diameter corrugated tubing	Black	185792-1
Vertical adapter for NW 8.5 mm diameter corrugated tubing	Black	965785-1
Vertical adapter for NW 10 mm diameter corrugated tubing	Black	965786-1
Right-angle adapter 4/7 position for hose	Black	1534789-1
Vertical adapter 4/7 position for hose	Black	1534791-1
Vertical adapter 4/7 position for jacketed cable 5.2-6.5 mm	Black	1418916-1
Vertical adapter 4/7 position for jacketed cable 6.0-9.5 mm	Black	1418917-1
Right-angle adapter 4/7 position for jacketed cable 5.2-6.5 mm	Black	1418918-1
Right-angle adapter 4/7 position for jacketed cable 6.0-9.5 mm	Black	1418919-1

Sealed Socket Connector Assembly



Sealed Pin Connector Assembly



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Sealed Diameter 1.5 mm/Diameter 2.5 mm Pin and Socket Housings

Technical Features

No. of Positions:

31 Positions

Housing Material:

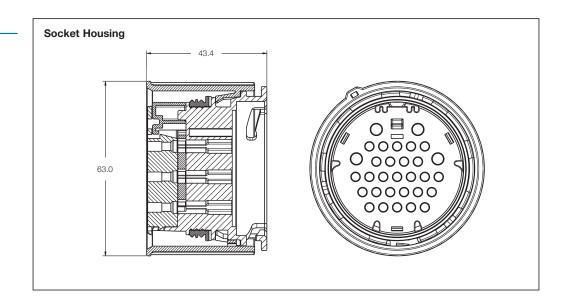
PBT GF 20

Wire Size Range:

- up to 2.5 mm² FLR Max. (diameter 1.5 mm)
- up to 4.0 mm² FLR Max. (diameter 2.5 mm)

Product Specification: 108-18742

Application Specification: 114-18449



Sealed Mixed Socket Housing

No. of	Hausina	Part Numbers					
No. of Positions	Housing Color	Socket Housing	Adapter Cap*	Mating Pin Housing	Mating PC Right-Angle	B Header Vertical	
31	Black	1394081-1	1394089-1 (Vertical)	-	-	-	
31	DIACK	_	1394816-1 (45° Angle)	-	-	-	

^{*} For adaption to corrugated tubes NW 22.

Technical Features

No. of Positions: 31 Positions

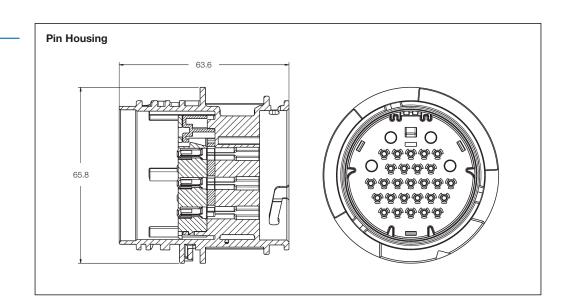
Housing Material: PBT GF 20

Wire Size Range:

- up to 2.5 mm² FLR Max. (diameter 1.5 mm)
- up to 4.0 mm² FLR Max. (diameter 2.5 mm)

Product Specification: 108-18742

Application Specification: 114-18449



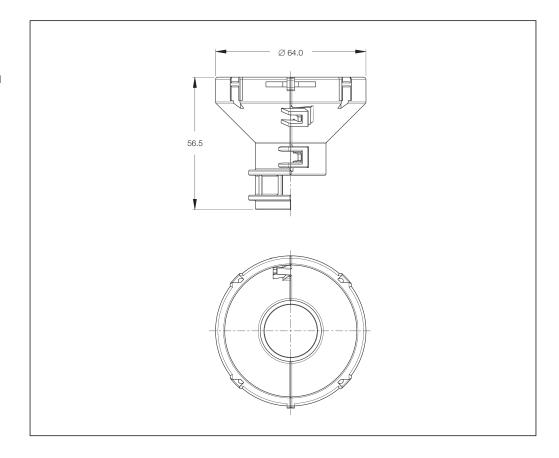
Sealed Mixed Pin Housing

No. of	Uavaina	Part Numbers					
No. of Positions	Housing Color	Pin	Adapter	Mating	Mating PCB Header		
		Housing	Cap*	Socket Housing	Right-Angle	Vertical	
31	31 Black		1394089-1 (Vertical)	-	-	-	
	Diack	-	1394816-1 (45° Angle)	-	-	-	

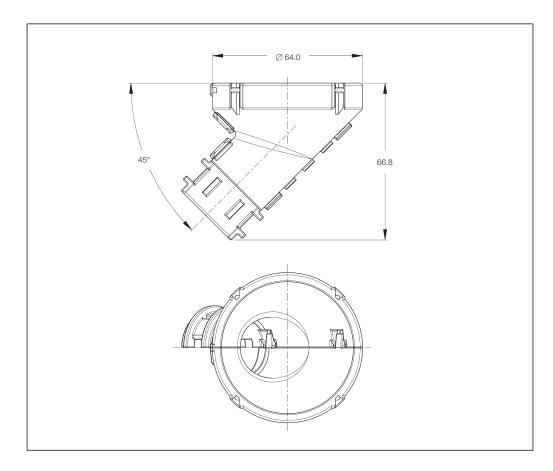
^{*} For adaption to corrugated tubes NW 22.

Sealed Diameter 1.5 mm/Diameter 2.5 mm Pin and Socket Housings

Cap for 31 Positions
Pin and Socket Housing
for Corrugated Tubes
nominal Width 22.0 mm



Cap 45° for 31 Positions Pin and Socket Housing for Corrugated Tubes nominal Width 22.0 mm



Connector Housings

Connectors for Diesel Fuel Injector

Technical Features

No. of Positions:

2 Positions

Housing Material:

Nylon 6.6 GF

Wire Size Range:

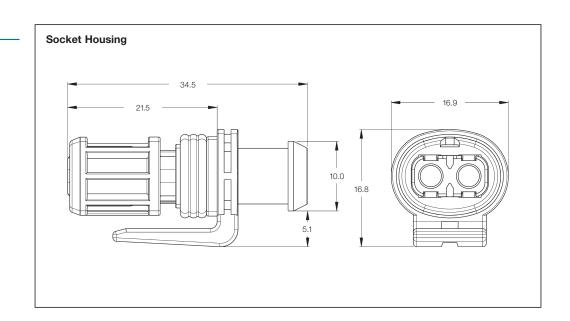
0.2-2.5 mm²

Product Specification:

108-3428-1

Application Specification:

114-3219



Socket Housing

No. of Keying	Haveine	Part Numbers					
Positions	Keying Options	Housing Color	Socket Housing	Cover	Mating Pin Housing	Mating PCI Right-Angle	3 Header Vertical
2	-	Black	1337245-3	-	-	-	-

Technical Features

No. of Positions:

4 Positions

Housing Material:

Nylon 6.6 GF

Wire Size Range:

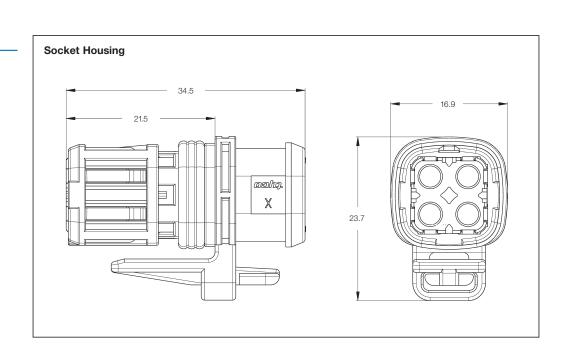
0.2-2.5 mm²

Product Specification:

108-3442

Application Specification:

114-3219



Socket Housing

No. of	Marsha a	Harris a	Part Numbers					
No. of Positions	Keying Options	Housing Color	Socket Housing			Mating PCI Right-Angle	CB Header Vertical	
4	-	Black	1337352-1	-	-	-	-	

For Special Socket Contacts see Page 26-5.

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Socket Contacts for Diesel Fuel Injector Connector

Technical Features

Wire Size Range: 0.5-2.5 mm²

Insulation Diameter:

1.2-3.0 mm

Contact Material:

CuNi18Zn20

Contact Finish:

Blank

Current Carrying Capacity:

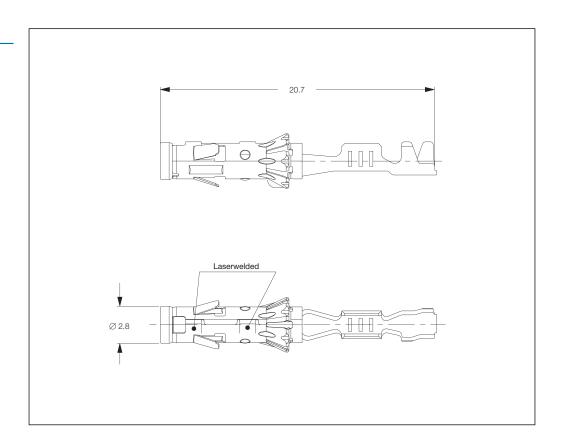
12 A max.

Product Specification:

108-18028

Application Specification:

114-18040



Socket Contacts for Diesel Fuel Injector Connector

Wire Size	Wire Size Range Insulation Diameter (mm)		Material	Part Numbers					
			and Finish	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator*	Hand Tool
0.5–1.0	-	1.2–2.1	CuNi18Zn20, blank	1-929989-0	4,000	1-962998-0	500	2-878485-2	734289-1
1.0–2.5	-	2.2–3.0	CuNi18Zn20, blank	1-929990-0	3,800	1-962999-0	500	2-878486-2	734289-2

^{*} This Applicator Part Number is only one of a part number selection.

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

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Sealed Socket Housing with Secondary Locking Device

Technical Features

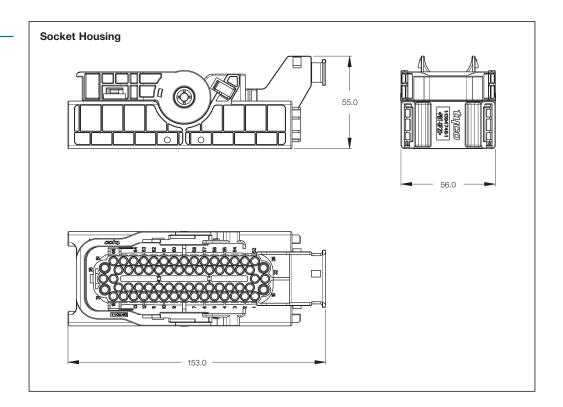
No. of Positions: 66 Positions

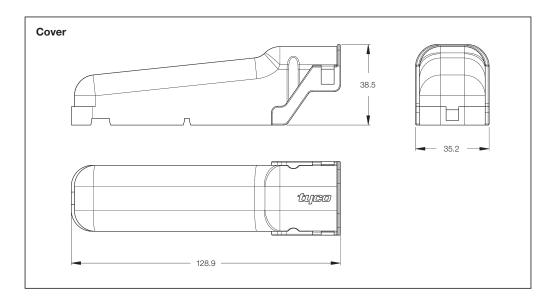
Housing Material: PBT GF 20

Wire Size Range: 4.0 mm² FLR Max.

Product Specification: 108-18734

Application Specification: 114-18424





Sealed Socket Housings with Secondary Locking Device

No. of	Keying Options	Housing Color	Part Numbers					
No. of Positions			Socket Housing	Cover	Mating Pin Housing	Mating PCI Right-Angle	3 Header Vertical	
	А	Natural	1-1394748-1	1718010-1	1-1394750-1			
		Inatural	1-1394748-2	1718010-1	1-1394750-1	-		
66	В	Gray	2-1394748-1	1718010-1	2-1394750-1	_		
00	С	Blue	3-1394748-1	1718010-1	3-1394750-1		_	
	D	Green	4-1394748-1	1718010-1	4-1394750-1	-		
	Spare Part F	Black	8-1394748-2	1718010-1	8-1394750-1	_		

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Sealed Pin Housing with Secondary Locking Device

Technical Features

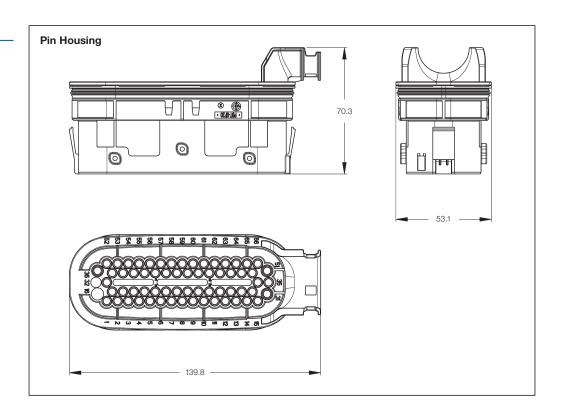
No. of Positions: 66 Positions

Housing Material: PBT GF 20

Wire Size Range: 4.0 mm² FLR Max.

Product Specification: 108-18734

Application Specification: 114-18424



Sealed Pin Housings with Secondary Locking Device

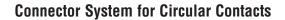
No. of Positions	Keying Options	Housing Color	Part Numbers					
			Pin Housing	Adapter	Mating Socket Housing	Mating PCE Right-Angle	B Header Vertical	
- 66 -	А	Natural	1-1394750-1	1534407-1	1-1394748-1 / -2			
	В	Gray	2-1394750-1	1534407-1	2-1394748-1			
	С	Blue	3-1394750-1	1534407-1	3-1394748-1	-	_	
	D	Green	4-1394750-1	1534407-1	4-1394748-1			
	Spare Part F	Black	8-1394750-1	1534407-1	8-1394748-2			





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Connector System for Circular Contacts

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Engineering Notes

