

Receptacle Contacts

Technical Features

Contact Material:

CuSn, CuFe

Cantilever Spring: Stainless Steel

Contact Finish:

pre-tin plated, gold plated

Wire Size Range:

0.2-1.5 mm² FLR (thin walled wire)

Contact Resistance (New State):

CuSn: <5 m Ω CuFe: <4 m Ω

Total Temperature max.:

-40 °C to +120 °C (tin plated)

-40 °C to +140 °C (gold plated)

Mating Cycles:

10 (tin plated)

100 (gold plated)

Insertion Force*:

max. 5 N (proof tab 0.8 mm thick)

Extraction Force*:

min. 2 N (proof tab 0.8 mm thick)

Retention Force (from Housing):

without second locking device

>25 N

- second locking device only

>100 N

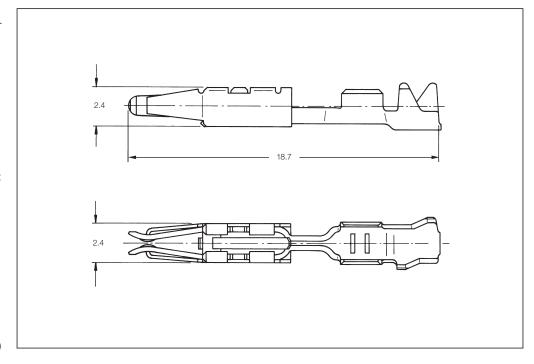
depends on housing material

Dimensions of Male Contacts:

1.6 mm x 0.8 mm

Product Group Drawing:

1703333



Extraction Tool: Part No. 5-1579007-5

Product Specification: 108-18024

Application Specification:

114-18163

Max. Current in 9 Position Housing

Material	Temperature	Cu	urrent Carrying Capac (Ampere)	city		
	(° C)	0.35 mm ²	0.50 mm ²	0.75 mm ²		
CuSn	20	3.0	5.0	8.0		
Guoii	90	1.5	2.0	4.0		
CuFe	20	4.0	6.0	10.0		
Cure	90	1.5	2.5	5.0		

Standard Receptacle Contacts

Wire Size		n Diameter nm)	Material			Pa	rt Numbers		
Range (mm²)	FLK	FLR	and Finish*	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator *	Hand Tool
0.2-0.5	-	1.2–1.6	-1 / -2 / -3 / -4	929950	7,500	929951	500	1528493	
0.35–0.75	-	1.2-1.9	-1 / -2 / -3 / -4	928939	6,000	929927	1,000	on request	2063538-1
0.5–1.0	-	1.4–2.1	-1/-2/-3/-4/-7/-8	929952	6,000	929953	500	1528020	2003538-1
1.0–1.5	-	1.9–2.4	-1 / -2 / -3 / -4	929954	5,000	929955	500	1528706	

*) Material and Finish:

xxx-1 = CuSn, pre-tin plated xxx-2 = CuSn, gold plated

xxx-3 = CuFe, pre-tin plated

xxx-4 = CuFe, gold plated

xxx-7 = CuSn, gold plated, short-circuit execution xxx-8 = CuFe, gold plated, short-circuit execution

 The pre- and suffix for the applicators depends on the applied termination equipment.

^{*)} Measured with an Steel Test Tab (see Product Spec. 108-18279).



Receptacle Contacts

Technical Features

Contact Material:

CuSn, CuFe, CuNiSi

Cantilever Spring: Stainless Steel

Contact Finish:

pre-tin plated, gold plated

Wire Size Range:

0.2-0.5 mm² (FLR) 0.5-1.0 mm² (FLR)

1.5 mm² (FLR)

Contact Resistance (New State):

CuSn: <5 m Ω

CuFe: $<4~\text{m}\Omega$

Total Temperature max.:

-40 °C to +120 °C (tin plated)

-40 °C to +140 °C (gold plated)

Mating Cycles:

10 (tin plated)

100 (gold plated)

Insertion Force*:

max. 4 N (proof tab 0.6 mm thick)

Extraction Force*:

min. 2 N (proof tab 0.6 mm thick)

Retention Force (from Housing):

- without second locking device > 25 N
- second locking device only > 100 N

depends on housing material

Dimensions of Male Contacts:

1.6 x 0.6 mm = Micro Timer II 1.6 x 0.8 mm = Micro Timer III

Modular Dimensions:

3.25 mm x 4.0 mm (smallest)

Version in Single Seal:

4.0 mm x 4.0 mm (smallest)

Extraction Tool:

Part No. 539960-1

Product Group Drawings:

1355045 = Micro Timer II

1241916 = Micro Timer III

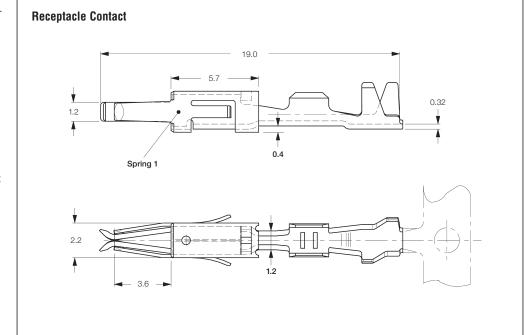
Product Specifications:

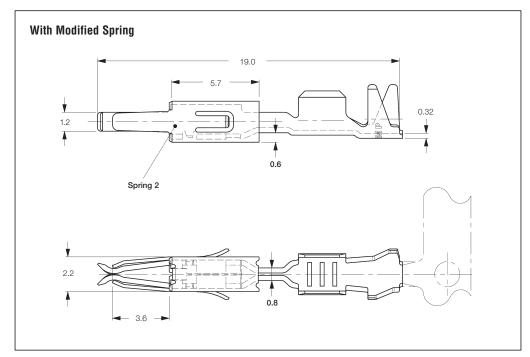
108-18055 = Micro Timer II

108-18386 = Micro Timer III

Application Specification:

114-18081





Max. Current in 68 Position Housing

Material	Temperature	Cı	rrent Carrying Capac (Ampere)	eity
	(° C)	0.35 mm ²	0.50 mm ²	0.75 mm ²
CuSn	20	3.0	5.0	8.0
Cuon	90	1.5	2.0	4.0
CuFe	20	4.0	6.0	10.0
	90	1.5	2.5	5.0

^{*)} Measured with an Steel Test Tab (see Product Spec. 108-18279).

^{**)} Note: Micro Timer III is made for diagnosis applications.



Timer Contact SystemMicro Timer II and Micro Timer III

Receptacle Contacts (continued)

Standard Receptacle Contacts

Wire Size		n Diameter	Material	rial Part Numbers					
Range (mm²)	FLK	mm) FLR	and Finish*	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator *	Hand Tool
0.2-0.5	-	1.15-1.60	-1 / -2 / -3 / -4 / -5 / -6	962942 1)	7,000	962944 1)	500	1528061	
0510	.0 – 1.4–2.1	-1 / -2 / -3 / -4 / -5 / -6	962943 1)	6,000	962945 ¹⁾	500	1528256		
0.5–1.0		1.4-2.1	-1 / -2	964150 1) 3)	5,000	964151 ^{1) 3)}	500	1528096	0000400 4
0.2-0.5	_	1.15–1.60	-1 / -2	965914 ⁶⁾	6,000	965915 6)	500	1528061	2063409-1
05.10		1.4–2.1	-1	968052 5)	6,000	968053 5)	500	1528256	
0.5-1.0	0.5–1.0	1.4-2.1	-1	969022 ⁶⁾	6,000	969023 6)	500	1528304	

Receptacle Contacts with Single Wire Sealing System

Wire Size	(mm)		Material			Par	t Numbers		
Range (mm²)	FLK	FLR	and Finish*	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator *	Hand Tool
0.2-0.5	-	1.2-1.6	-1 / -2 / -3 / -5	962875 ¹⁾	4,000	963710 ¹)	500	1528281	2063265-1
0.5–1.0	-	1.4-2.1	-1 / -2 / -3 / -5 / -6	962876 ¹⁾	4,000	963711 1)	500	1528054	2003203-1
1.5	-	2.2-2.4	-1	1703414	4,000	1703415	500	1528772	-

Standard Receptacle Contacts with Modified Spring

Wire Size		n Diameter	Material			Part	Numbers		
Range (mm²)	FLK	mm) FLR	and Finish*	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator *	Hand Tool
0.2-0.5	-	1.15–1.60	-2 / -3 / 4-xxx-1	964261 2)	7,500	964262 2)	500	1528091	
0.5–1.0	_	- 1.4–2.1	-2 / -3 / 4-xxx-1	964263 2)	6,000	964264 2)	500	1528092	2063409-1
0.5-1.0		1.4-2.1	-2	964348 2) 3)	5,500	964349 2) 3)	500	1528096	
1.5	-	2.2-2.4	-2 / -3	1241844 2)	5,000	1241845 2)	500	1528123	-
0.2–0.5	-	1.15–1.60	-2 / 4-xxx-1	1241858 5)	7,500	1241859 5	500	1528091	2063409-1
0.5–1.0	-	1.4-2.1	-2 / -7 / 4-xxx-1	1241860 5)	6,000	1241861 5	500	on request	2003409-1

Receptacle Contacts with Modified Spring and Single Wire Sealing System

Wire Size		on Diameter	Material			Pai	t Numbers		
mange	mm) FLR	and Finish*	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator *	Hand Tool	
0005	- 1.15–1.60	-1 / -2 / -6	968045 1)	4,000	968046 1)	500	1528281		
0.2–0.5		-2 / -3 / -6 / 4-xxx-1	969005 2)	4,500	969019 2)	500	1528068		
0.5.1.0		1.4-2.1	-2 / -3 / -6 / 4-xxx-1	964274 2)	4,000	964275 2)	500	1528261	0000400 4
0.5–1.0	_	1.4–2.1	-1 / -2 / -6	9680151)	4,000	9680161)	500	1528054	2063409-1
0.2-0.5	-	1.15–1.60	-2 / 4-xxx-1	1241730 <i>5</i>)	4,500	1241731 5)	500	1528068	
0.5-1.0	-	1.4-2.1	-2 / 4-xxx-1	1241732 5)	4,000	1241733 5	500	1528261	

*) Material and Finish:

xxx-1 = CuSn4, pre-tin plated

xxx-2 = CuFe2, pre-tin plated

xxx-3 = CuSn4, gold plated

xxx-4 = CuSn4, gold plated, short-circuit execution

xxx-5 = CuFe2, gold plated

xxx-6 = CuSn4, special gold plated

xxx-7 = CuNi12Zn24, plain

4-xxx-1 = CuNiSi, gold plated

Remarks:

1) = With Spring 1

2) = With Spring 1 or Spring 2

3) = For Double and Single Termination

Micro Timer III:

5) = Gap Size 0.2 mm

6) = Gap Size 0.35 mm

 The pre- and suffix for the applicators depends on the applied termination equipment.



Tab Contacts

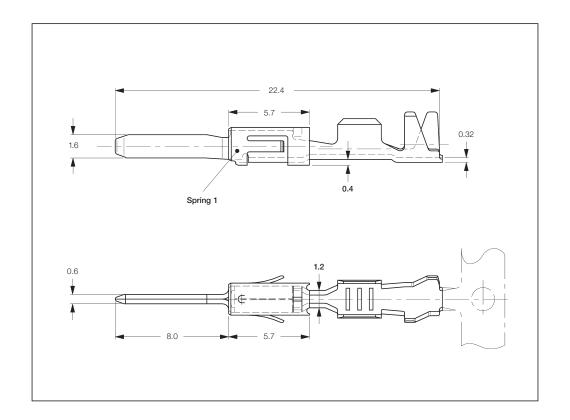
Tabs 1.6 x 0.6 mm with Steel Top Spring, Mates with Micro Timer II

Extraction Tool: Part No. 539960-1

Product Specification:

108-18331

Application Specification: 114-18082



Standard Tab Contacts

Wire Size	(mm)		Material			Par	t Numbers		
Range (mm²)	FLK	FLR	and Finish*	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator *	Hand Tool
0.2-0.5	-	1.15–1.60	-1 / -2 / -3	963898 1)	7,000	963899 1)	500	1528061	2063265-1
0.5–1.0	-	1.4-2.1	-1 / -2 / -3 / -4	963900 1)	6,000	963901 1)	500	1528256	2003200-T

Tab Contacts with Single Wire Sealing System

Wire Size	(mm)		Material			Par	t Numbers		
Range (mm²)	FLK	FLR	and Finish*	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator •	Hand Tool
0.2-0.5	_	1.15–1.60	-1 / -2 / -3	963902 1)	4,000	963903 1)	500	1528281	0000005 1
0.5–1.0	-	1.4–2.1	-1 / -2 / -3	963904 1)	4,000	963905 1)	500	1528054	2063265-1

*) Material and Finish:

xxx-1 = CuSn4, pre-tin plated

xxx-2 = CuFe2, pre-tin plated

xxx-3 = CuSn4, gold plated

xxx-4 = CuSn4, gold plated

Remarks:

1) = With Spring 1

*) The pre- and suffix for the applicators depends on the applied termination equipment.



Tab Contacts

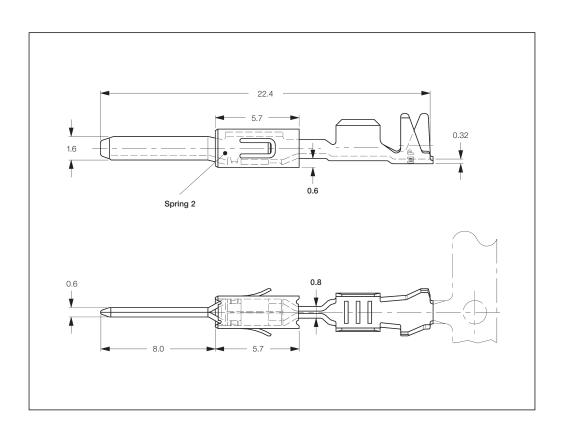
Tabs 1.6 x 0.6 mm with Modified Steel Top Spring, Mates with Micro Timer II

Extraction Tool: Part No. 539960-1

Product Group Drawing: 1355055

Product Specification: 108-18331

Application Specification: 114-18082



Standard Tab Contacts with Modified Spring

Wire Size	(mm)		Material						
Range (mm²)	FLK	FLR	and Finish*	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator *	Hand Tool
0.2–0.5	-	1.15–1.60	-2 / -3	964265 2)	7,500	964266 2)	500	1528091	
0.5–1.0	_	1.4–2.1	-2 / -3	969079 2) 3)	5,500	969080 2) 3)	500	1528096	2063409-1
0.5-1.0	_	1.4-2.1	-1 / -2 / -3	964267 2)	6,000	964268 2)	500	1528092	
1.5	-	2.2-2.4	-1 / -2 / -3	1241846 2)	4,000	1241847 2)	500	1528123	-

Tab Contacts with Modified Spring and Single Wire Sealing System

Wire Size	(mm)		Material			Par	t Numbers		
Range (mm²)	FLK	FLR	and Finish*	Strip Form	Package Quantity	Loose- Piece	Package Quantity	Applicator *	Hand Tool
0.2-0.5	_	1.2-1.6	-2 / -3	969028 2)	4,000	969029 2)	500	1528068	2063409-1
0.5–1.0	-	1.4-2.1	-2 / -3	964269 2)	4,000	964270 2)	500	1528261	2003409-1
1.5	-	2.2-2.4	-2	1703278	4,000	1703279	500	1528579	-

*) Material and Finish:

xxx-1 = CuSn4, pre-tin plated xxx-2 = CuFe2, pre-tin plated

xxx-3 = CuSn4, gold plated

Remarks:

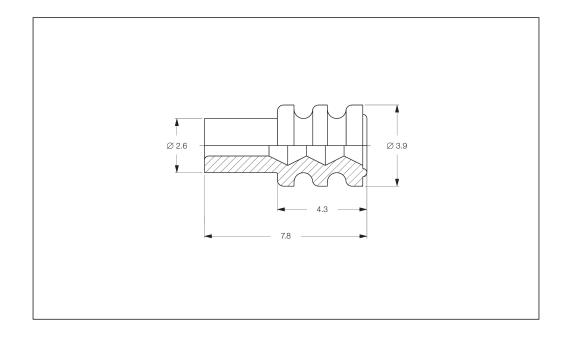
2) = With Spring 1 or Spring 23) = For Double and Single Termination

 The pre- and suffix for the applicators depends on the applied termination equipment.

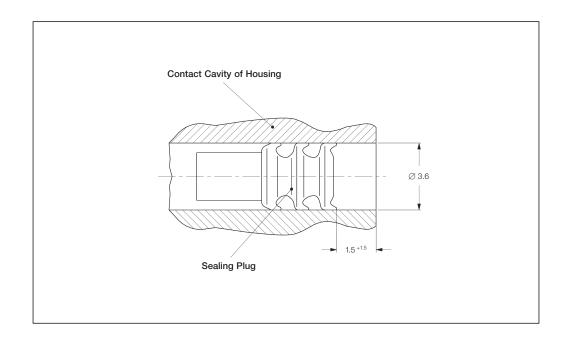


Single Wire Seals and Sealing Plugs

Single Wire Seals and Sealing Plugs for Micro Timer II; Micro Timer III and 1.6 mm Tabs



Insulation Diameter (mm)	Color	Part Number	Package Quantity
0.35–0.50	Blue	1394133-1	10,000
0.9–1.2	Green	1718705-1	10,000
1.2–1.6	Red	964971-1	10,000
1.4–1.9	Gray	963530-1	10,000
1.9–2.4	Yellow	964972-1	10,000
Sealing Plug	White	963531-1	10,000
	Natural	1394132-1	10,000





Receptacle Housings

Technical Features

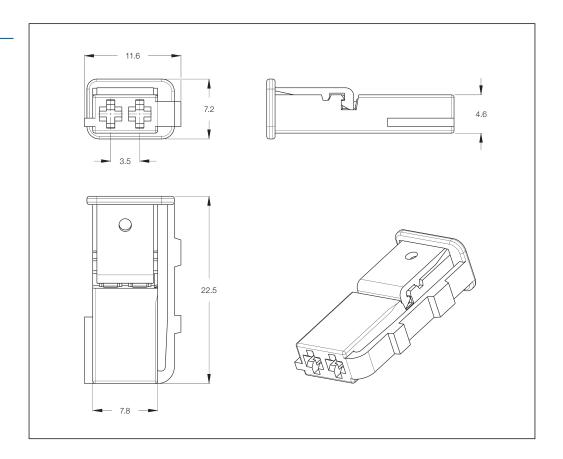
No. of Positions: 2 Position Type A

Housing Material: PBT GF20

Wire Size Range: 0.35-1.5 mm²

Product Specification: 108-94118

Application Specification: 114-18901



No. of	V as sim as	Housing		Part Numbers								
Pos.	Keying Options	Color	Receptacle Housing	Cover	Locking Device	Cover and Lever	Mating Tab Housing	Mating PCB Right-Angle	Header Vertical			
2		Black	1563189-1	_	_	_	1563190-1	_				
2	_	Natural	1563189-3	_	_	_	1-929103-1	_	_			



Receptacle Housings

Technical Features

No. of Positions: 3 Position Type A

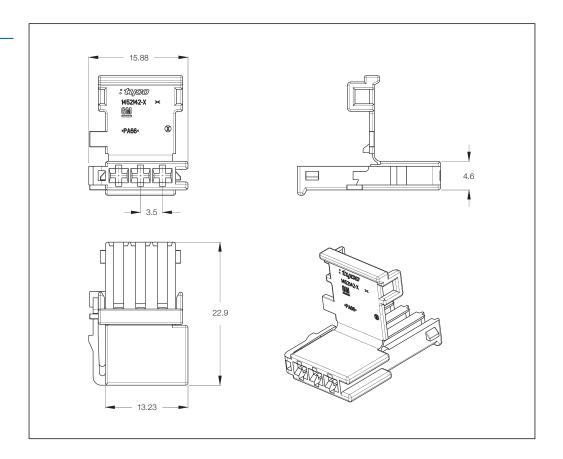
Housing Material:

PA66

Wire Size Range: 0.35-1.5 mm²

Product Specification: 108-18822

Application Specification: 114-18515



No of	Variana	Housing Color	Part Numbers								
No. of Pos.	Keying Options		Receptacle Housing	Cover	Locking Device	Cover and Lever	Mating Tab Housing	Mating PCB Right-Angle	Header Vertical		
		Black	1452142-1				2 062242 1	_	_		
3		Gray	1452142-2	-	_	-	3-962342-1	_	_		



Tab Housings

Technical Features

No. of Positions:

2 Positions

Housing Material:

PBT GF20

Wire Size Range:

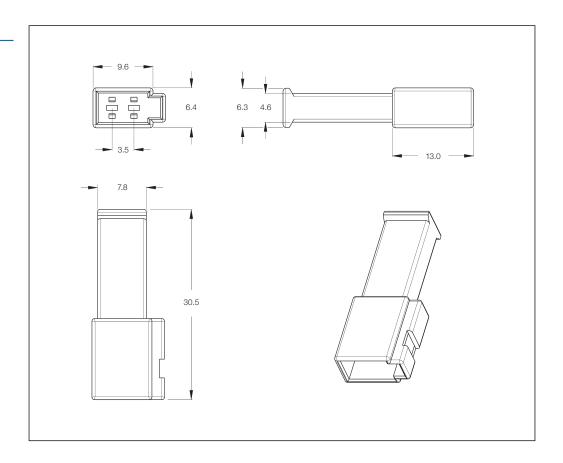
0.35 - 0.75 mm²

Product Specification:

-

Application Specification:

-



2 Position Tab Housings

No of	Varian	Housing		Part Numbers							
No. of Pos.	Keying Options	Color	Tab Housing	Cover	Locking Device	Cover and Lever	Mating Receptacle Housing	Mating PC Right-Angle	B Header Vertical		
2	-	Black	1-929103-1	-	-	-	1563189-3	-	-		



Tab Housings

Technical Features

No. of Positions:

3 Positions

Housing Material:

PBT GF20

Wire Size Range:

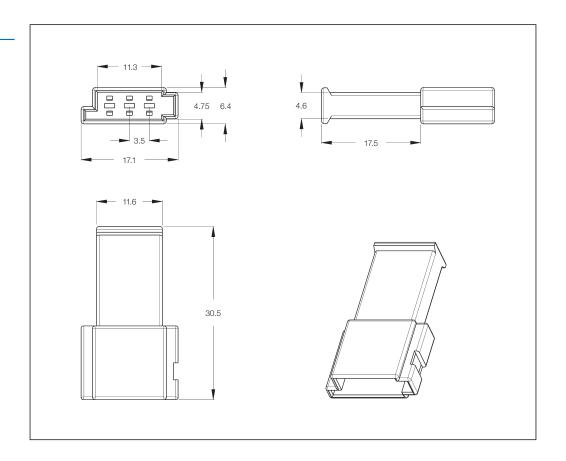
0.3-0.75 mm²

Product Specification:

-

Application Specification:

—



3 Position Tab Housings

	Kevina	Housing	Part Numbers								
No. of Pos.	Keying Options	Housing Color	Tab Housing	Cover	Locking Device	Cover and Lever	Mating Receptacle Housing	Mating PC Right-Angle	B Header Vertical		
	A1	Black	1-962342-1				1452142-1				
	A2	Orange	1-962342-2				1452142-1				
3	B1	Gray	2-962342-1	-	_	-	1452142-2	-	-		
	B2	Orange	2-962342-2				1452142-2				
	N	White	3-962342-1								

Receptacle Housings

Technical Features

No. of Positions: 6 Position Assy

Housing Material:

PA66 GF30

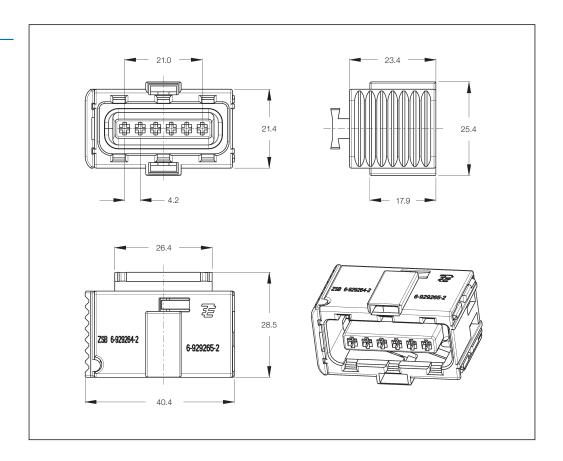
Wire Size Range: 0.5-1.0 mm²

Product Specification:

108-18633

Application Specification:

114-18272



6 Position Receptacle Housings with Slide

No. of	Varian	Housing		Part Numbers									
No. of Pos.	Keying Options	Color	Receptacle Housing	Cover	Locking Device	Cover and Lever	Retainer Housing	Mating Tab Housing	Mating PCB Right-Angle	Header Vertical			
6	-	Black	6-929264-2	-	-	-	-	_	-	-			



Receptacle Housings

Technical Features

No. of Positions: 10 Position Assy

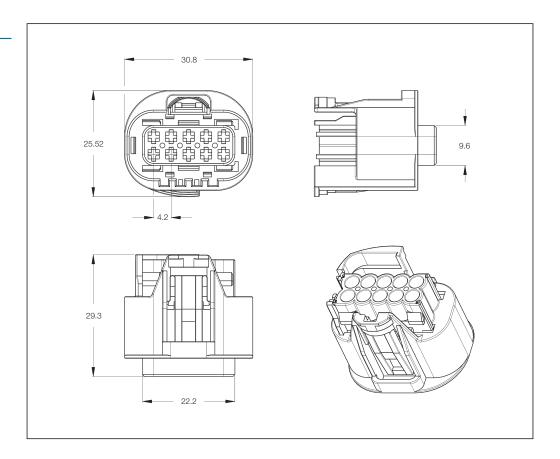
Housing Material:

PBT GF20

Wire Size Range: 0.2-1.0 mm²

Product Specification: 108-18816-1

Application Specification: 114-18485-1



No. of	Vandana	Housing		Part Numbers									
No. of Pos.	Keying Options	Color	Receptacle Housing	Cover	Locking Device	Cover and Lever	Retainer Housing	Mating Tab Housing	Mating PCB Right-Angle	Header Vertical			
10	-	Black	1452545-1	-	-	-	-	1452546-1	-	-			



Receptacle Housings

Technical Features

No. of Positions: 22 + 4 Position Micro Timer II + Standard Power Timer Assy with Slide

Housing Material: PBT GF15

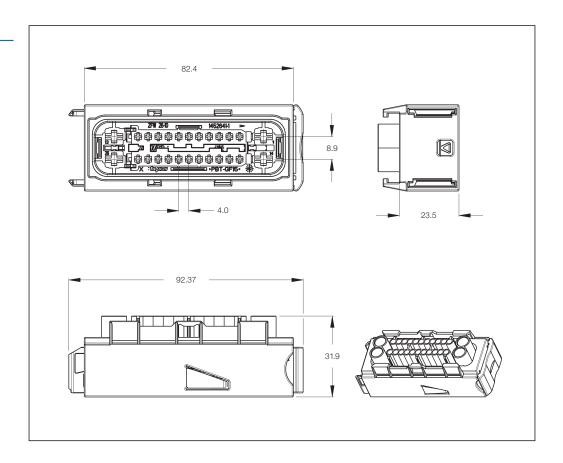
Wire Size Range:MTII: 0.35-1.0 mm²
SPT: 0.50-4.0 mm²

 ${\bf Product\ Specification:}$

108-18792-1

Application Specification:

114-18480-1



No. of	Varian	Housing		Part Numbers								
No. of Pos.	Keying Options	Color	Receptacle Housing	Cover	Locking Device	Cover and Lever	Retainer Housing	Mating Pin Housing	Mating PCB Right-Angle	Header Vertical		
22 + 4	-	Black	1452643-1	1452644-1	-	-	-	-	-	-		



Receptacle Housings

Technical Features

No. of Positions: 30 Position Micro Timer II + Junior Power Timer with Slide

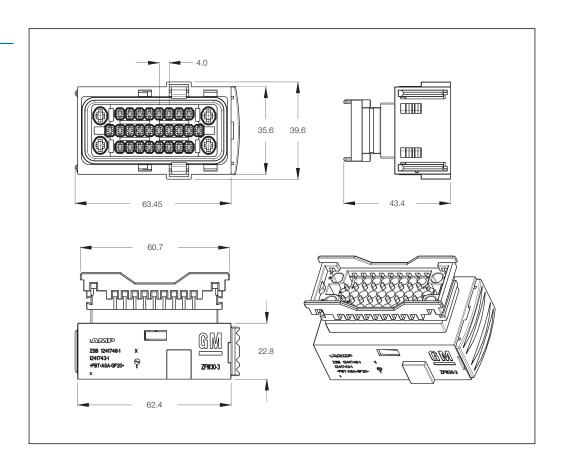
Housing Material: PBT GF20

Wire Size Range: MTII: 0.5-1.0 mm² JPT: 0.5-2.5 mm²

Product Specification: 108-18672-1

Application Specification:

114-18315-1



No. of	Varian	Housing		Part Numbers								
No. of Pos.	Keying Options	Color	Receptacle Housing	Cover	Locking Device	Cover and Lever	Retainer Housing	Mating Tab Housing	Mating PCB Right-Angle	Header Vertical		
30	-	Black	1241748-1	1241747-1	-	-	-	1355883-1	-	-		



Receptacle Housings

Technical Features

No. of Positions: 102 Position Micro Timer II + Junior Power Timer + Maxi Power Timer

Housing Material:

PBT GF20

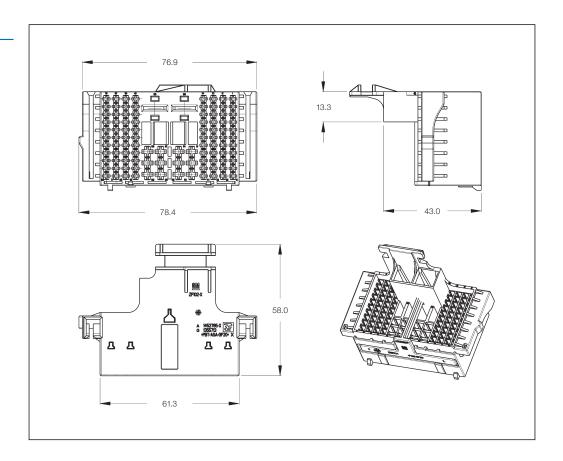
Wire Size Range: MTII: 0.2-1.0 mm² SPT: 0.2-2.5 mm² MPT: 2.5-10.0 mm²

Product Specification:

108-18931

Application Specification:

114-18634



No. of	Varian	Housing		Part Numbers								
No. of Pos.	Keying Options	Color	Receptacle Housing	Cover	Locking Device	Cover and Lever	Retainer Housing	Mating Tab Housing	Mating PCB Right-Angle	Header Vertical		
102	-	Black	1452765-1	-	-	-	1355711-1	1452764-1	-	-		



Tab Housings

Technical Features

No. of Positions: 10 Positions

Housing Material:

PBT GF20

Wire Size Range:

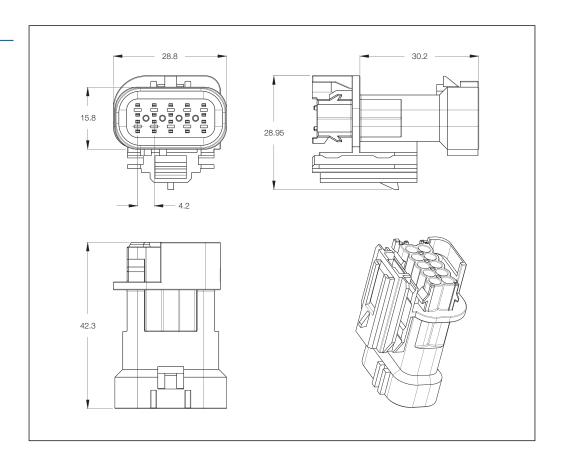
0.2-1.0 mm²

 $\label{lem:product Specification:} \textbf{Product Specification:}$

108-18816-1

Application Specification:

114-18485-1



10 Position Tab Housings

No. of	Variana	Housing	Part Numbers							
No. of Pos.	Keying Options	Color	Tab Housing	Cover	Locking Device	Cover and Lever	Retainer Housing	Mating Receptacle Housing		
10	-	Black	1452546-1	-	-	-	-	1452545-1		



Tab Housings

Technical Features

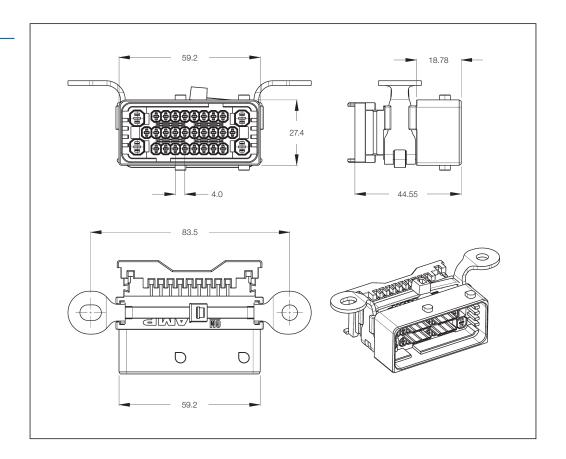
No. of Positions: 30 Position Micro Timer II + Junior Power Timer with Slide

Housing Material: PBT GF20

Wire Size Range: See customer drawing

Product Specification: 108-18672-1

Application Specification: 114-18315-1



30 Position Mixed Tab Housings

No. of	Variana	Housing		Part Numbers							
No. of Pos.	Keying Options	Housing Color	Tab Housing	Cover	Locking Device	Cover and Lever	Retainer Housing	Mating Receptacle Housing			
30	-	Black	1355883-1	-	-	-	-	1241748-1			



Tab Housings

Technical Features

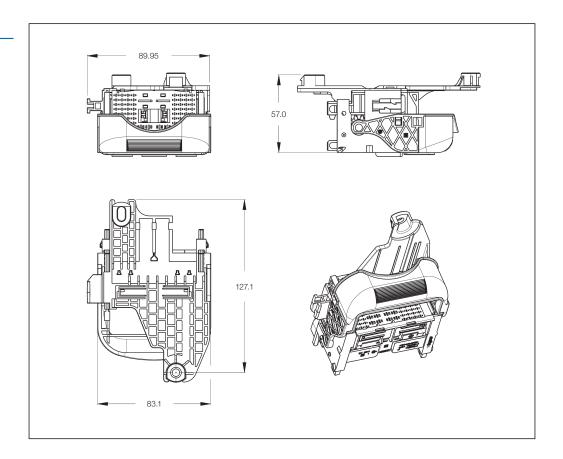
No. of Positions: 102 Position Micro Timer II + Junior Power Timer + Maxi Power Timer

Housing Material: PBT GF20

Wire Size Range: See customer drawing

Product Specification: 108-18931

Application Specification: 114-18634



102 Position Mixed Tab Housings

No. of	Variana	Housing		Part Numbers							
No. of Pos.	Keying Options	Housing Color	Tab Housing	Cover	Locking Device	Cover and Lever	Retainer Housing	Mating Receptacle Housing			
102	-	Black	1452764-1	-	-	-	1355709-1	1452765-1			



Receptacle Housings

Technical Features

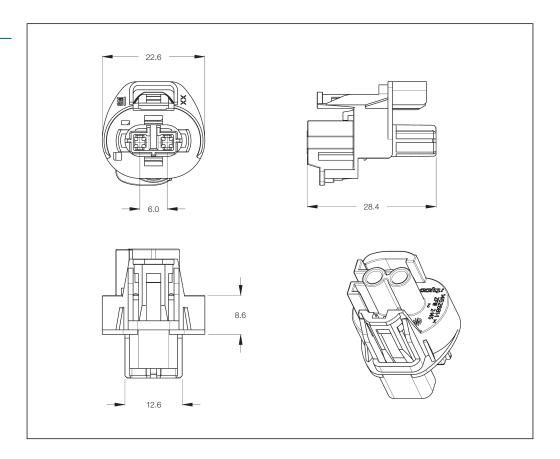
No. of Positions: 2 Position Assy

Housing Material: PBT GF20

Wire Size Range: 0.5-1.0 mm²

Product Specification: 108-18872-1

Application Specification: 114-18564-1



No. of Pos.	Keying Options	Housing Color	Part Numbers							
			Receptacle Housing	Cover	Locking Device	Cover and Lever	Retainer Housing	Mating Tab Housing	Mating PCB Right-Angle	Header Vertical
2	-	Black	1452680-1	-	1452679-1	-	-	-	-	-



Receptacle Housings

Technical Features

No. of Positions:

4 Positions

Housing Material:

PBT GF30

Wire Size Range:

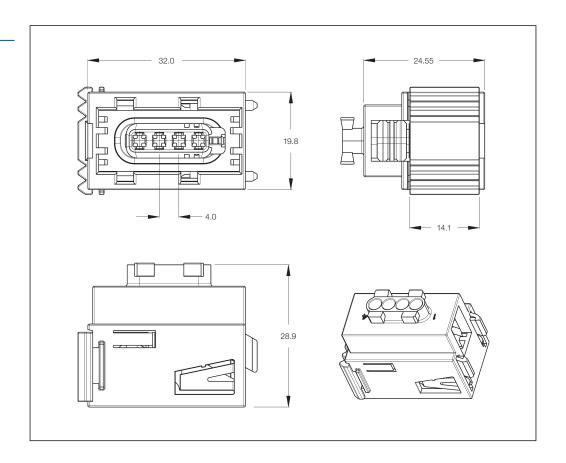
0.35-0.5 mm²

Product Specification:

108-18664

Application Specification:

114-18308



No. of Pos.	Keying Options	Housing Color	Part Numbers							
			Receptacle Housing	Cover	Locking Device	Cover and Lever	Retainer Housing	Mating Tab Housing	Mating PCB Right-Angle	Header Vertical
4	-	Black	6-1355678-1	-	-	-	-	-	-	-



Receptacle Housings

Technical Features

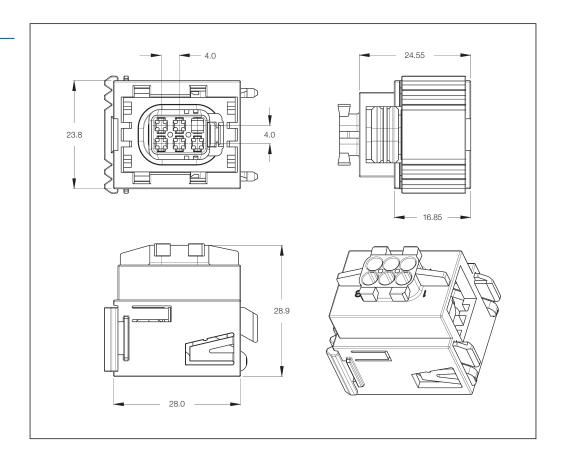
No. of Positions: 6 Positions

Housing Material: PBT GF30

Wire Size Range: 0.35-0.5 mm²

Product Specification: 108-18664

Application Specification: 114-18308



No. of Pos.	Keying Options	Housing Color	Part Numbers							
			Receptacle Housing	Cover	Locking Device	Cover and Lever	Retainer Housing	Mating Tab Housing	Mating PCB Right-Angle	Header Vertical
6	-	Black	6-1355683-1	-	-	-	-	-	-	-



Receptacle Housings

Technical Features

 $\label{eq:No. of Positions:} \textbf{No. of Positions:}$

10 Positions

Housing Material:

PBT GF30

Wire Size Range:

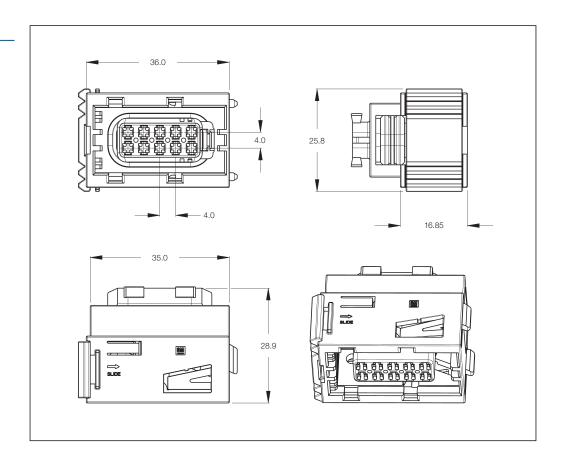
0.35-0.5 mm²

Product Specification:

108-18664

Application Specification:

114-18308



No. of Pos.	Keying Options	Housing Color	Part Numbers							
			Receptacle Housing	Cover	Locking Device	Cover and Lever	Retainer Housing	Mating Tab Housing	Mating PCB Right-Angle	Header Vertical
10	-	Black	6-1355688-1	-	-	-	-	_	-	-