



**Part Number :** [1727183121](#)

**Product Description :** Mini-Fit TPA2/Sigma Female Crimp Terminal, Brass, Pre-Plated Tin (Sn), 20-18 AWG, 1.42-2.10mm Insulation Diameter, Reel

**Series Number :** 172718

**Status :** Active

**Product Category :** Crimp Terminals

**Packaging Alternative :** [1727183122](#) (Bag)



---

## Documents & Resources

### Drawings

[1727183121 sd.pdf](#)

[PK-172718-0000-000.pdf](#)

[PK-172718-0001-000.pdf](#)

[STEP AP242](#)

[SOLIDWORKS](#)

[Creo](#)

### Specifications

[AS-172718-0000-001.pdf](#)

[PS-172718-0000-001.pdf](#)

[2131370000-PS-000.pdf](#)

[1727180001-TS-000.pdf](#)

[1727180002-TS-000.pdf](#)

[1727180003-TS-000.pdf](#)

[2131370001-TS-000.pdf](#)

[2131370002-TS-000.pdf](#)

### Tooling Specifications


[ATS-639036900-001.pdf](#)

---

## Product Environment Compliance

### Compliance

GADSL/IMDS	Compliant with Exemption 44
------------	-----------------------------

China RoHS	per SJ/T 11365-2006 
EU ELV	Not Relevant
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2025)4165-DC (25 June 2025)
EU RoHS	Compliant per EU 2015/863

### Compliance Statements

- EU RoHS
- REACH SVHC
- Low-Halogen

### Industry Documents

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

### Substances of Interest

- PFAS

### EU RoHS Certificate of Compliance

### Additional Product Compliance Information

---

## Part Details

### General

Status	Active
Category	Crimp Terminals
Series	172718
Description	Mini-Fit TPA2/Sigma Female Crimp Terminal, Brass, Pre-Plated Tin (Sn), 20-18 AWG, 1.42-2.10mm Insulation Diameter, Reel
Application	Power, Wire-to-Board, Wire-to-Wire
Comments	See product specification for current derating information; See Mini-Fit TPA2 housing series for 3D models.
Product Name	Mini-Fit Sigma,Mini-Fit TPA2
UPC	889056179386

## Electrical

Current - Maximum per Contact	11.5A
Voltage - Maximum	600V AC/DC

## Physical

Durability (mating cycles max)	30
Gender	Female
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Net Weight	0.210/g
Packaging Type	Reel
Plating min - Mating	2.500µm
Plating min - Termination	2.500µm
Termination Interface Style	Crimp or Compression
Wire Insulation Diameter	1.42-2.10mm
Wire Size (AWG)	18, 20
Wire Size mm <sup>2</sup>	N/A

## Solder Process Data

Lead-Free Process Capability	N/A
------------------------------	-----

## Mates With / Use With

### Use with Part(s)

Description	Part Number
Mini-Fit TPA2 and Mini-Fit Sigma Dual Row Receptacle Housings	<u>172708</u>
Mini-Fit TPA2 and Mini-Fit Sigma Single Row Receptacle Housings	<u>200453</u>

---

## Application Tooling

## Global

Description	Part Number
Hand Crimp Tool for Mini-Fit TPA2 Male and Female Crimp Terminals, 18 AWG, Large and Small Insulation Grips	<u>2002180100</u>
Hand Crimp Tool for Mini-Fit TPA2 Male and Female Crimp Terminals, 20 AWG, Large and Small Insulation Grips	<u>2002182100</u>
Extraction Tool for Mini-Fit TPA2 Crimp Terminal, 24-16 AWG	<u>638246210</u>
FineAdjust Applicator for Mini-Fit TPA2 Crimp Terminals, 0.50mm <sup>2</sup> , 0.75mm <sup>2</sup> and 20-18 AWG wires	<u>639036900</u>