



Part Number : [1727654121](#)

Product Description : Mini-Fit TPA2/Sigma Male Crimp Terminal, Brass, Pre-Plated Tin (Sn), Double 22+22 or Single 20-18 AWG, 2.10-2.85mm Insulation Diameter, Reel

Series Number : 172765

Status : Active

Product Category : Crimp Terminals

Packaging Alternative : 1727654122 (Bag)

---

## Documents & Resources

### Drawings

[Drawing 1727654121\\_sd.pdf](#)

[Packaging Design Drawing PK-172765-0000-000.pdf](#)

[Packaging Design Drawing PK-172765-0001-000.pdf](#)

### Specifications

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

[Application Specification 2131370000-AS-000.pdf](#)

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

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

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

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


### Tooling Specifications

[Application Tooling Specification ATS-639036800-001.pdf](#)

---

## Product Environment Compliance

### Compliance

GADSL/IMDS	Compliant with Exemption 44
China RoHS	
EU ELV	Not Relevant
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2024)4144-DC (27 June 2024)
EU RoHS	Compliant per EU 2015/863

### Multiple Part Product Compliance Statements

- Eu RoHS
- REACH SVHC
- Low-Halogen

## Multiple Part Industry Compliance Documents

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

## EU RoHS Certificate of Compliance

---

### Part Details

#### General

Status	Active
Category	Crimp Terminals
Series	172765
Description	Mini-Fit TPA2/Sigma Male Crimp Terminal, Brass, Pre-Plated Tin (Sn), Double 22+22 or Single 20-18 AWG, 2.10-2.85mm Insulation Diameter, Reel
Application	Power, Wire-to-Wire
Comments	See product specification for current derating information; See Mini-Fit TPA2 housing series for 3D models.
Product Family	Mini-Fit Family Power Connectors
Product Name	Mini-Fit Sigma,Mini-Fit TPA2
UPC	889056262439

#### Electrical

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

#### Physical

Durability (mating cycles max)	30
Gender	Male
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	2.10-2.85mm
Wire Size (AWG)	18, 20, 22+22
Wire Size mm <sup>2</sup>	N/A

### Solder Process Data

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

### Use with Part(s)

Description	Part Number
Mini-Fit TPA2 and Mini-Fit Sigma Dual Row Plug Housings	<u>172762</u>
Mini-Fit TPA2 and Mini-Fit Sigma Dual Row Plug Housings	<u>172767</u>
Mini-Fit TPA2 and Mini-Fit Sigma Single Row Plug Housings	<u>200471</u>
Mini-Fit TPA2 and Mini-Fit Sigma Single Row Plug Housings	<u>200488</u>
Mini-Fit Sigma Sealed Dual Row Plug Housings	<u>207017</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>
FineAdjust Applicator for Mini-Fit TPA 2.0 Crimp Terminals, 22 AWG Wires	<u>2037028500</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>639036800</u>
--	------------------

---

This document was generated on Sep 18, 2024