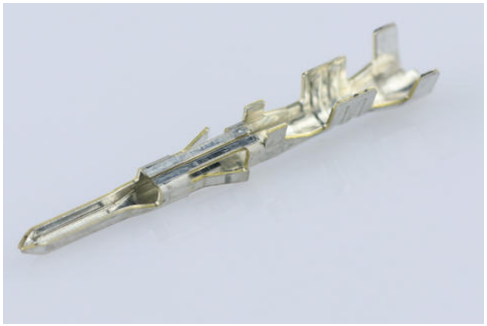
molex



Part Number : 1727656121
Product Description : Mini-Fit TPA2/Sigma Male Crimp Terminal, Brass, Pre-Plated Tin (Sn), 24-22 AWG, 1.65-2.38mm Insulation Diameter, Reel
Series Number : 172765
Status : Active
Product Category : Crimp Terminals
Packaging Alternative : 1727656122 (Bag)

Documents & Resources

Drawings

1727656121_sd.pdf

PK-172765-0000-000.pdf

PK-172765-0001-000.pdf

STEP AP242

SOLIDWORKS

Creo

Specifications

AS-172718-0000-001.pdf

2131370000-AS-000.pdf

PS-172718-0000-001.pdf

2131370000-PS-000.pdf

1727180002-TS-000.pdf

1727180003-TS-000.pdf

2131370002-TS-000.pdf

Tooling Specifications

ATS-2002180200-001.pdf

ATS-2002181200-001.pdf

ATS-639037000-001.pdf

Product Environment Compliance

Compliance

GADSL/IMDS	Not Relevant
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	172765
Description	Mini-Fit TPA2/Sigma Male Crimp Terminal, Brass, Pre-Plated Tin (Sn), 24-22 AWG, 1.65-2.38mm 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 Name	Mini-Fit Sigma,Mini-Fit TPA2

UPC	889056262514

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	1.65-2.38mm
Wire Size (AWG)	22, 24
Wire Size mm^2	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 Plug Housings	172762
Mini-Fit TPA2 and Mini-Fit Sigma Dual Row Plug Housings	172767
Mini-Fit TPA2 and Mini-Fit Sigma Single Row Plug Housings	200471
Mini-Fit TPA2 and Mini-Fit Sigma Single Row Plug Housings	200488

Mini-Fit Sigma Sealed Dual Row Plug Housings	207017

Application Tooling

Global

Description	Part Number
Hand Crimp Tool for Mini-Fit TPA2 Male and Female Crimp Terminals, 22 AWG, Large and Small Insulation Grips	2002180200
Hand Crimp Tool for Mini-Fit TPA2 Male and Female Crimp Terminals, 24 AWG, Large and Small Insulation Grips	2002181200
Extraction Tool for Mini-Fit TPA2 Crimp Terminal, 24-16 AWG	638246210
FineAdjust Applicator for Mini-Fit TPA2 Crimp Terminals, 0.22mm², 0.25mm², 0.35 mm² and 24-22 AWG wires	639037000