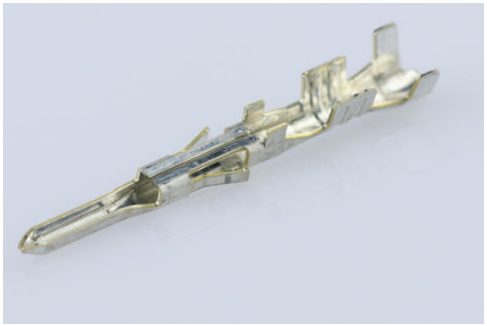
molex



Part Number : 1727653121
Product Description : Mini-Fit TPA2/Sigma Male Crimp Terminal, Brass, Pre-Plated Tin (Sn), 20-18 AWG, 1.42-2.10mm Insulation Diameter, Reel
Series Number : 172765
Status : Active
Product Category : Crimp Terminals
Packaging Alternative : 1727653122 (Bag)

Documents and Resources

Drawings

1727653121_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-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)7771-DC (04 Feb 2026)
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), 20-18 AWG, 1.42-2.10mm 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	889056262392

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	1.42-2.10mm
Wire Size (AWG)	18, 20
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, 18 AWG, Large and Small Insulation Grips	2002180100
Hand Crimp Tool for Mini-Fit TPA2 Male and Female Crimp Terminals, 20 AWG, Large and Small Insulation Grips	2002182100
Extraction Tool for Mini-Fit TPA2 Crimp Terminal, 24-16 AWG	638246210
FineAdjust Applicator for Mini-Fit TPA2 Crimp Terminals, 0.50mm^2, 0.75mm^2 and 20-18 AWG wires	639036900