Part Number : 451301001
Product Description : Nano-Fit-to-Nano-Fit Off-the-Shelf (OTS) Cable Assembly, Dual Row, 150.00mm Length, 10 Circuits, Black
Series Number : 45130
Status : Active
Product Category : Power and Signal Cable Assemblies



Documents and Resources

Drawings

451301001_sd.pdf

3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

Product Environment Compliance

Compliance

GADSL/IMDS	Not Relevant
China RoHS	per SJ/T 11365-2006
EU ELV	Not Relevant
Low-Halogen Status	Not 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	Power and Signal Cable Assemblies
Series	45130
Description	Nano-Fit-to-Nano-Fit Off-the-Shelf (OTS) Cable Assembly, Dual Row, 150.00mm Length, 10 Circuits, Black
Application	Power, Wire-to-Board
Assembly Configuration	Dual Ended Connectors
Connector to Connector	Nano-Fit-to-Nano-Fit
Product Name	Nano-Fit
Type	Discrete Wire Assembly
UPC	191128141987

Electrical

Current - Maximum per Contact	8.0A
Voltage - Maximum	250V AC (RMS)

Physical

Cable Length	150.00mm
Circuits (Loaded)	10
Circuits (maximum)	10
Color - Resin	Black
Gender	Female-Female

Lock to Mating Part	Yes
Material - Metal	High Conductivity Copper
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	Nylon
Net Weight	14.000/g
Number of Rows	2
Overmolded	No
Packaging Type	Bag
Pitch - Mating Interface	2.50mm
Plating min - Mating	0.381µm
Plating min - Termination	2.540µm
Single Ended	No
Termination Interface Style	Crimp or Compression
Wire/Cable Type	UL 1061
Wire Size (AWG)	20

Mates With / Use With

Mates with Part(s)

Description	Part Number
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, with Kinked Pins, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray	1053101210
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, with Kinked Pins, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray	1053101310
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, with Kinked Pins, 0.76µm Gold (Au) Plating, Lubricated, Black, Glow-Wire Capable, Tray	1053101410
Nano-Fit Vertical Header,	1053121210

Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, with Solder Clips, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray	
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, with Solder Clips, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray	1053121310
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, with Solder Clips, 0.76µm Gold (Au) Plating, Lubricated, Black, Glow-Wire Capable, Tray	1053121410
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray	1053141210
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray	1053141310
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, 0.76µm Gold (Au) Plating, Lubricated, Black, Glow-Wire Capable, Tray	1053141410
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 10 Circuits, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable	1054291210
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 10 Circuits, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable	1054291310
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 10 Circuits, 0.76µm Gold (Au) Plating, Lubricated, Black, Glow-Wire Capable	1054291410

Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 10 Circuits, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable	1054051210
Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 10 Circuits, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable	1054051310
Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 10 Circuits, Black, Glow-Wire Capable	2014441110
Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 10 Circuits, Black, Panel Mount, Glow-Wire Capable	2014441210