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molex



Part Number : 2451301050
Product Description : Nano-Fit-to-Nano-Fit Off-the-Shelf (OTS) Overmolded Cable Assembly, Dual Row, Matte Tin (Sn) Plating, 5.0m Length, 10 Circuits, Black
Series Number : 245130
Status : Active
Product Category : Power and Signal Cable Assemblies

Documents & Resources

Drawings

2451301050_sd.pdf

Product Environment Compliance

Compliance

GADSL/IMDS	Not Relevant
China RoHS	per SJ/T 11365-2006
EU ELV	Not Relevant
Low-Halogen Status	Not Reviewed per IEC 61249-2-21
REACH SVHC	Not Reviewed 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	Power and Signal Cable Assemblies
Series	245130
Description	Nano-Fit-to-Nano-Fit Off-the-Shelf (OTS) Overmolded Cable Assembly, Dual Row, Matte Tin (Sn) Plating, 5.0m 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	Overmolded Assembly
UPC	191128814751

Electrical

Current - Maximum per Contact	8.0A
Voltage - Maximum	250V AC/DC

Physical

Cable Length	5.0m
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	Matte Tin
Material - Plating Termination	Matte Tin
Material - Resin	Nylon

Net Weight	521.710/g
Number of Rows	2
Overmolded	Yes
Packaging Type	Bag
Pitch - Mating Interface	2.50mm
Plating min - Mating	2.540µm
Plating min - Termination	2.540µm
Single Ended	No
Termination Interface Style	Crimp or Compression
Wire/Cable Type	UL 2464
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, Tin (Sn) Plating, Black, Glow-Wire Capable, Tray	1053101110
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, with Solder Clips, Tin (Sn) Plating, Black, Glow-Wire Capable, Tray	1053121110
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, Tin (Sn) Plating, Black, Glow-Wire Capable, Tray	1053141110
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 10 Circuits, 0.76µm Tin (Sn) Plating, Black, Glow-Wire Capable	1054291110
Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 10 Circuits, 0.76µm Tin (Sn) Plating, Black, Glow-Wire Capable	1054051110
Nano-Fit Plug Housing, TPA	2014441110

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Capable, 2.50mm Pitch, Dual Row, 10 Circuits, Black, Glow-Wire Capable	
Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 10 Circuits, Black, Panel Mount, Glow-Wire Capable	2014441210