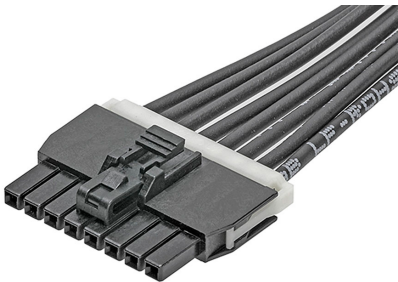




**Part Number :** [1451300803](#)  
**Product Description :** Nano-Fit-to-Nano-Fit  
Off-the-Shelf (OTS) Cable Assembly, Single  
Row, Matte Tin (Sn) Plating, 300.00mm  
Length, 8 Circuits, Black  
**Series Number :** 145130  
**Status :** Active  
**Product Category :** Power and Signal Cable  
Assemblies



## Documents & Resources

- Drawings**  
[Drawing 1451300803\\_sd.pdf](#)
- 3D Models and Design Files**  
[3D Model 1451300803\\_stp.zip](#)

## Product Environment Compliance

### Compliance

|                    |                                                                                       |
|--------------------|---------------------------------------------------------------------------------------|
| GADSL/IMDS         | Not Relevant                                                                          |
| China RoHS         |  |
| EU ELV             | Not Relevant                                                                          |
| Low-Halogen Status | Not 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

## Part Details

### General

|                        |                                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Status                 | Active                                                                                                                          |
| Category               | Power and Signal Cable Assemblies                                                                                               |
| Series                 | 145130                                                                                                                          |
| Description            | Nano-Fit-to-Nano-Fit Off-the-Shelf (OTS) Cable Assembly, Single Row, Matte Tin (Sn) Plating, 300.00mm Length, 8 Circuits, Black |
| Application            | Power, Wire-to-Board                                                                                                            |
| Assembly Configuration | Dual Ended Connectors                                                                                                           |
| Connector to Connector | Nano-Fit-to-Nano-Fit                                                                                                            |
| Product Family         | Nano-Fit Power Connectors                                                                                                       |
| Product Name           | Nano-Fit                                                                                                                        |
| Type                   | Discrete Wire Assembly                                                                                                          |
| UPC                    | 191130119035                                                                                                                    |

### Electrical

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

### Physical

|                                |                          |
|--------------------------------|--------------------------|
| Cable Length                   | 300.00mm                 |
| Circuits (Loaded)              | 8                        |
| Circuits (maximum)             | 8                        |
| 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                     | 20.775/g                 |

|                             |                      |
|-----------------------------|----------------------|
| Number of Rows              | 1                    |
| Overmolded                  | No                   |
| 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 1061              |
| Wire Insulation Diameter    | 1.57mm               |
| Wire Size (AWG)             | 20                   |

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## Mates With / Use With

### Mates with Part(s)

| Description                                                                                                                                       | Part Number       |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Single Row, 8 Circuits, with Kinked Pins, Tin (Sn) Plating, Black, Glow-Wire Capable, Tray  | <u>1053091108</u> |
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Single Row, 8 Circuits, with Solder Clips, Tin (Sn) Plating, Black, Glow-Wire Capable, Tray | <u>1053111108</u> |
| Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Single Row, 8 Circuits, Tin (Sn) Plating, Black, Glow-Wire Capable, Tray                 | <u>1053131108</u> |
| Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Single Row, 8 Circuits, 0.76µm Tin (Sn) Plating, Black, Glow-Wire Capable                  | <u>1054311108</u> |
| Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Single Row, 8 Circuits, 0.76µm Tin (Sn) Plating, Black, Glow-Wire Capable               | <u>1054301108</u> |
| Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Single Row, 8 Circuits, Black, Glow-Wire Capable                                                | <u>2002771108</u> |

|                                                                                                                          |                   |
|--------------------------------------------------------------------------------------------------------------------------|-------------------|
| Nano-Fit Plug Housing, TPA<br>Capable, 2.50mm Pitch, Single Row,<br>8 Circuits, Black, Panel Mount,<br>Glow-Wire Capable | <u>2002771208</u> |
|--------------------------------------------------------------------------------------------------------------------------|-------------------|

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