



**Part Number :** [451420410](#)

**Product Description :** MultiCat-to-MultiCat High-Power Off-the-Shelf (OTS) Cable Assembly, Male, Single Row, 1.0m Length, 8 AWG, 4 Circuits, Key A, Black

**Series Number :** 45142

**Status :** Active

**Product Category :** Power and Signal Cable Assemblies

**Engineering Number :** KAB2549L1V01



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## Documents & Resources

### Drawings

[Drawing 451420410\\_sd.pdf](#)

### 3D Models and Design Files

[3D Model 451420410\\_stp.zip](#)

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## 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	Contains Lead per D(2024)4144-DC (27 June 2024)
EU RoHS	Compliant with Exemption 6(c) 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
- chemSHERPA (xml)

EU RoHS Certificate of Compliance

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## Part Details

### General

Status	Active
Category	Power and Signal Cable Assemblies
Series	45142
Description	MultiCat-to-MultiCat High-Power Off-the-Shelf (OTS) Cable Assembly, Male, Single Row, 1.0m Length, 8 AWG, 4 Circuits, Key A, Black
Application	Power, Wire-to-Wire
Assembly Configuration	Dual Ended Connectors
Connector to Connector	MultiCat-to-MultiCat
Product Family	MultiCat Power Connectors with Precision-Machined Contacts
Product Name	MultiCat
Type	Discrete Wire Assembly, High Reliability Assembly
UPC	191128292573

### Electrical

Current - Maximum per Contact	40.0A
Voltage - Maximum	1000V AC

### Physical

Cable Length	1.0m
Circuits (Loaded)	4
Circuits (maximum)	4
Color - Resin	Black
Gender	Male-Male
Lock to Mating Part	Yes
Material - Metal	Copper Alloy

Material - Plating Mating	Gold over Nickel Phosphorus
Material - Plating Termination	Gold
Material - Resin	PEI
Net Weight	445.700/g
Number of Rows	1
Overmolded	No
Packaging Type	Bag
Pitch - Mating Interface	7.40mm
Plating min - Mating	0.100µm
Plating min - Termination	0.200µm
Single Ended	No
Termination Interface Style	Crimp or Compression
Wire/Cable Type	UL 10669
Wire Insulation Diameter	4.03mm-5.84mm
Wire Size (AWG)	8

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## Mates With / Use With

### Mates with Part(s)

Description	Part Number
MultiCat High-Power Inline Receptacle Housing, 4 Circuits, Black, Key A	<u>2018410040</u>
MultiCat High-Power Inline Receptacle Housing with CPA, 4 Circuits, Black, Key A	<u>2018410140</u>