



Part Number : 451420401

Series Number : 45142

Product Category : Power and Signal Cable Assemblies

Product Description : MultiCat-to-MultiCat High-Power Off-the-Shelf (OTS) Cable Assembly, Male, Single Row, 300.00mm Length, 8 AWG, 4 Circuits, Key A, Black

Status : Active

Engineering Number : KAB2549L0.3V01

Documents & Resources

Drawings


Drawing 451420401\_sd.pdf

3D Models and Design Files

3D Model 451420401\_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	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)

## 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, 300.00mm 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	191128292566

### Electrical

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

### Physical

Cable Length	300.00mm
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	157.300/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>