Part Number : 451420310
Product Description : MultiCat-to-MultiCat High-Power Off-the-Shelf (OTS) Cable Assembly, Male, Single Row, 1.0m Length, 8 AWG, 3 Circuits, Key A, Black
Series Number : 45142
Status : Active
Product Category : Power and Signal Cable Assemblies
Engineering Number : KAB2546L1V01



Documents & Resources

Drawings

451420310_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	Contains Lead per D(2025)4165-DC (25 June 2025)
EU RoHS	Compliant with Exemption 6(c) 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	45142
Description	MultiCat-to-MultiCat High-Power Off-the-Shelf (OTS) Cable Assembly, Male, Single Row, 1.0m Length, 8 AWG, 3 Circuits, Key A, Black
Application	Power, Wire-to-Wire
Assembly Configuration	Dual Ended Connectors
Connector to Connector	MultiCat-to-MultiCat
Product Name	MultiCat
Type	Discrete Wire Assembly, High Reliability Assembly
UPC	191128292511

Electrical

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

Physical

Cable Length	1.0m
Circuits (Loaded)	3
Circuits (maximum)	3

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	334.700/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 Size (AWG)	8

Mates With / Use With

Mates with Part(s)

Description	Part Number
MultiCat High-Power Inline Receptacle Housing, 3 Circuits, Black, Key A	2018410030
MultiCat High-Power Inline Receptacle Housing with CPA, 3 Circuits, Black, Key A	2018410130