



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



Documents & Resources

Drawings

[451420410_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(2024)7663-DC (21 Jan 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, 4 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	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	451.010/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, 4 Circuits, Black, Key A	<u>2018410040</u>
MultiCat High-Power Inline Receptacle Housing with CPA, 4 Circuits, Black, Key A	<u>2018410140</u>

This document was generated on Sep 11, 2025