

Off-the-Shelf (OTS) Discrete Wire Cable Assemblies



OTS MultiCat Discrete Cable Assemblies with precision-machined contacts deliver high power, superior durability and proper connection via connector position assurance (CPA), making it effective in multiple industry categories

Features and Benefits

2-piece hermaphroditic backshell

Secures cable. Provides strain relief. Easy access to actuate CPA and locking mechanism without removing backshells for quick mating and unmating

MultiCat Cable Assembly delivers a 16.0 to 40.0A current rating with connector position assurance (CPA) in a small package

Provides high power and a locking mechanism without sacrificing compactness

UL 1061 discrete wires

Ready to use in electronic appliance applications. Provide ease of design, prototyping and production

Manual mating / unmating

Facilitates quick assembly. No tooling or hardware required. Prevents mis-mating

Mating cycles: at least 500

Provides longer life. Withstands high-mating cycle applications

Assembled in ISO/TS16949-certified facilities

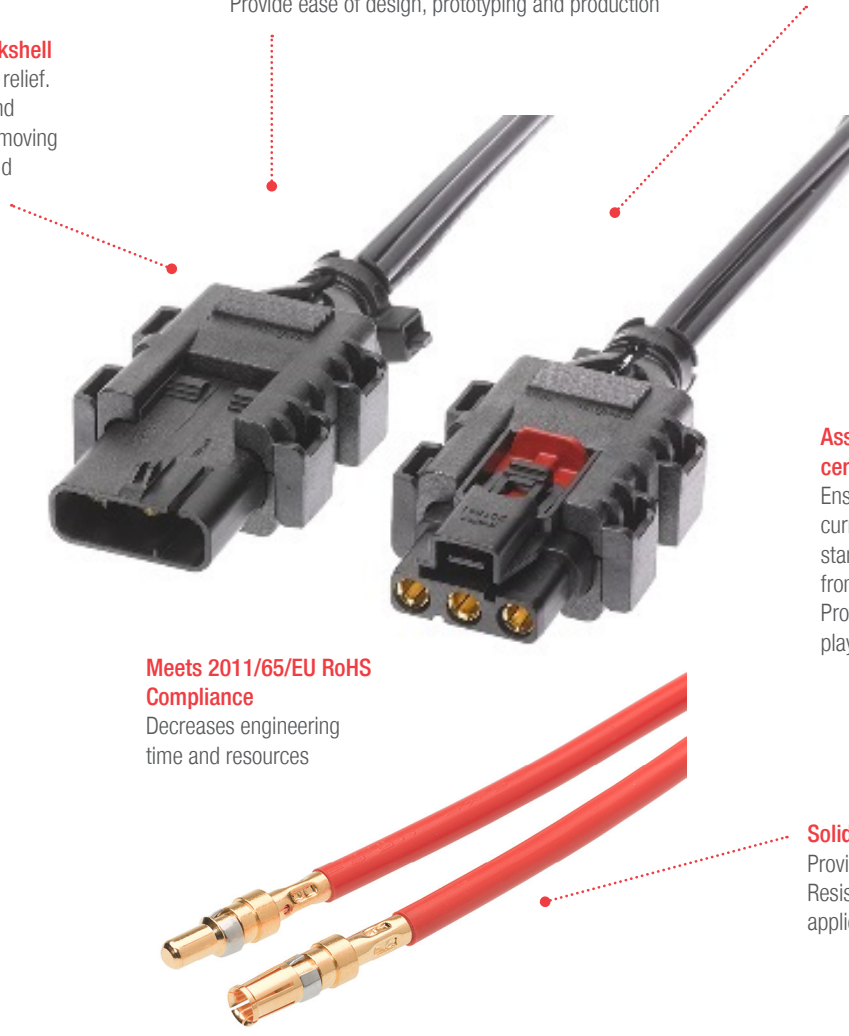
Ensures high quality. Meets current automotive industry standards. Pin-to-pin mapping from receptacle to PCB header. Provides ready-to-use, plug-and-play connections

Meets 2011/65/EU RoHS Compliance

Decreases engineering time and resources

Solid mass contact

Provides reliability and long life cycle. Resistant to damage in blind-mate applications. Supports high power



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Applications

Aerospace and Defense

- Unmanned vehicles
- Drones

Commercial aircraft cabins

Industrial Automation

- Industrial motors

Medical

- Diagnostic equipment

Telecommunications

- Receivers
- Satellite Dish



Specifications

MultiCat OTS Discrete Wire Cable Assemblies

REFERENCE INFORMATION

Packaging: See Packaging Spec
 UL File No.: E29179
 Terminal Used: Crimp
 Use with: UL1199 wire
 Designed In: Millimeters
 RoHS: Compliant by Exemption
 Halogen Free: TBD
 Glow Wire Compliant: No

ELECTRICAL

Voltage (max.): 1000V AC/DC
 Current (max.): 40.0A per Contact
 Contact Resistance (max.): 1 milliohms
 Dielectric Withstanding Voltage: 3000V AC

MECHANICAL

Contact Insertion Force into Housing (max.): 40N
 Contact Retention to Housing (min.): 175N
 Latch Strength (min.): 200N
 Insertion Force to PCB: TBD
 Mating Force (max.): 24N per Circuit
 Unmating Force (min.): 5N per Circuit
 Durability (max.): 500 cycles

PHYSICAL

Housing: PEI
 Contact: Copper (Cu) alloy
 Plating:
 Contact Area — Gold (Au)
 PCB Thickness: 2.50mm
 Operating Temperature: -40 to +150°C

Ordering Information

Series No.	Component	Type	Circuits	Length (mm)
45141	MultiCat Receptacle	Single Row	3 and 4	300 and 1,000
45142	MultiCat Plug			

Custom Product	Description
Contact Molex	MultiCat Custom lengths and other options

www.molex.com/link/otscableassemblies.html
www.molex.com/link/multicat.html

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