



Wire Harness for Automotive Solutions

Integrated Harness Solutions for 2W, 3W & Tractor Applications



Designed for Performance. Built for Reliability.

We deliver dependable harness solutions for 2W, 3W, and tractor applications, tailored to meet diverse mobility needs. Our focus is on reliability, efficiency, and seamless integration to ensure consistent performance in demanding environments.

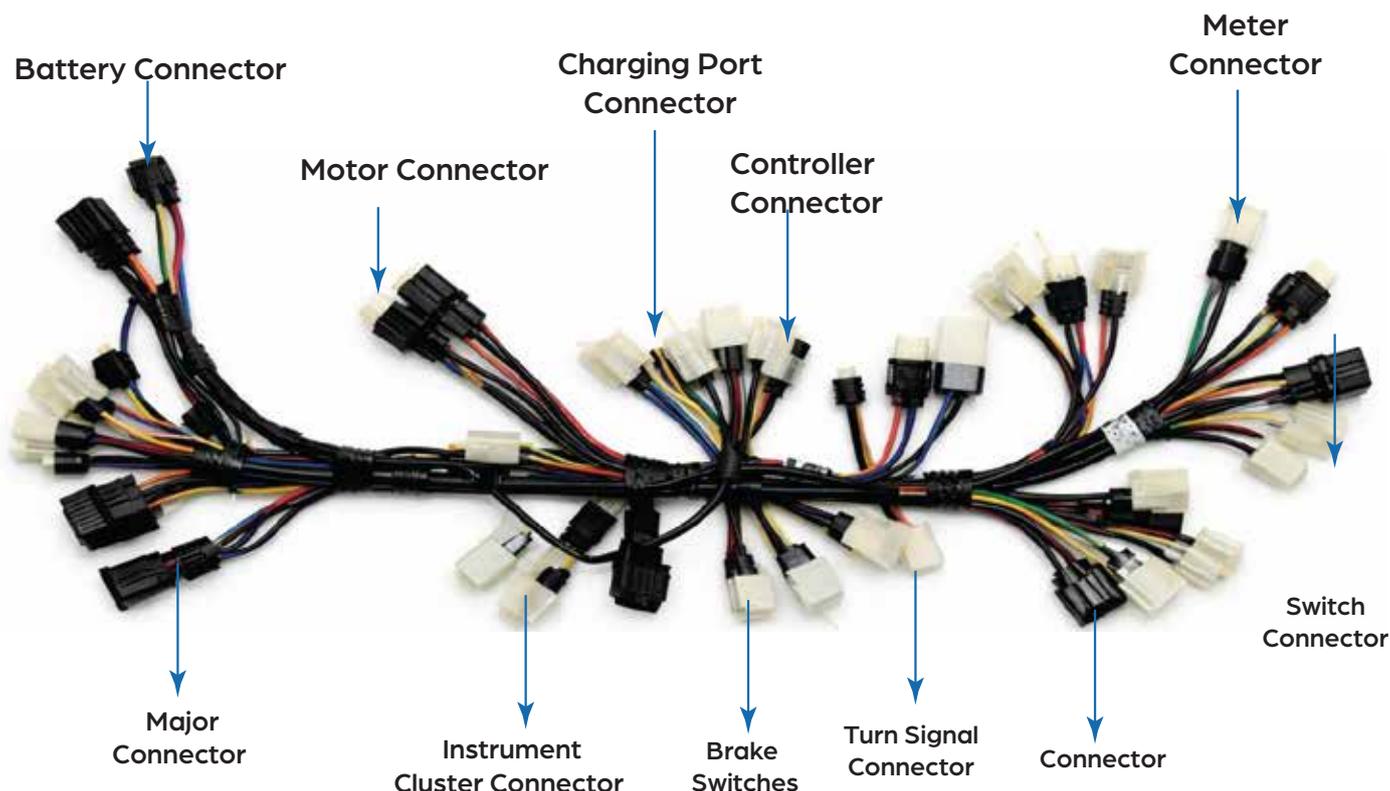
www.mecwinindia.com

Wire Harness Solutions for 2 Wheelers



Electric 2 Wheeler Wire Harness

A reliable and compact wiring system designed to safely distribute power and signals between the battery, controller, motor, and vehicle electronics, ensuring efficient performance and long-term durability.



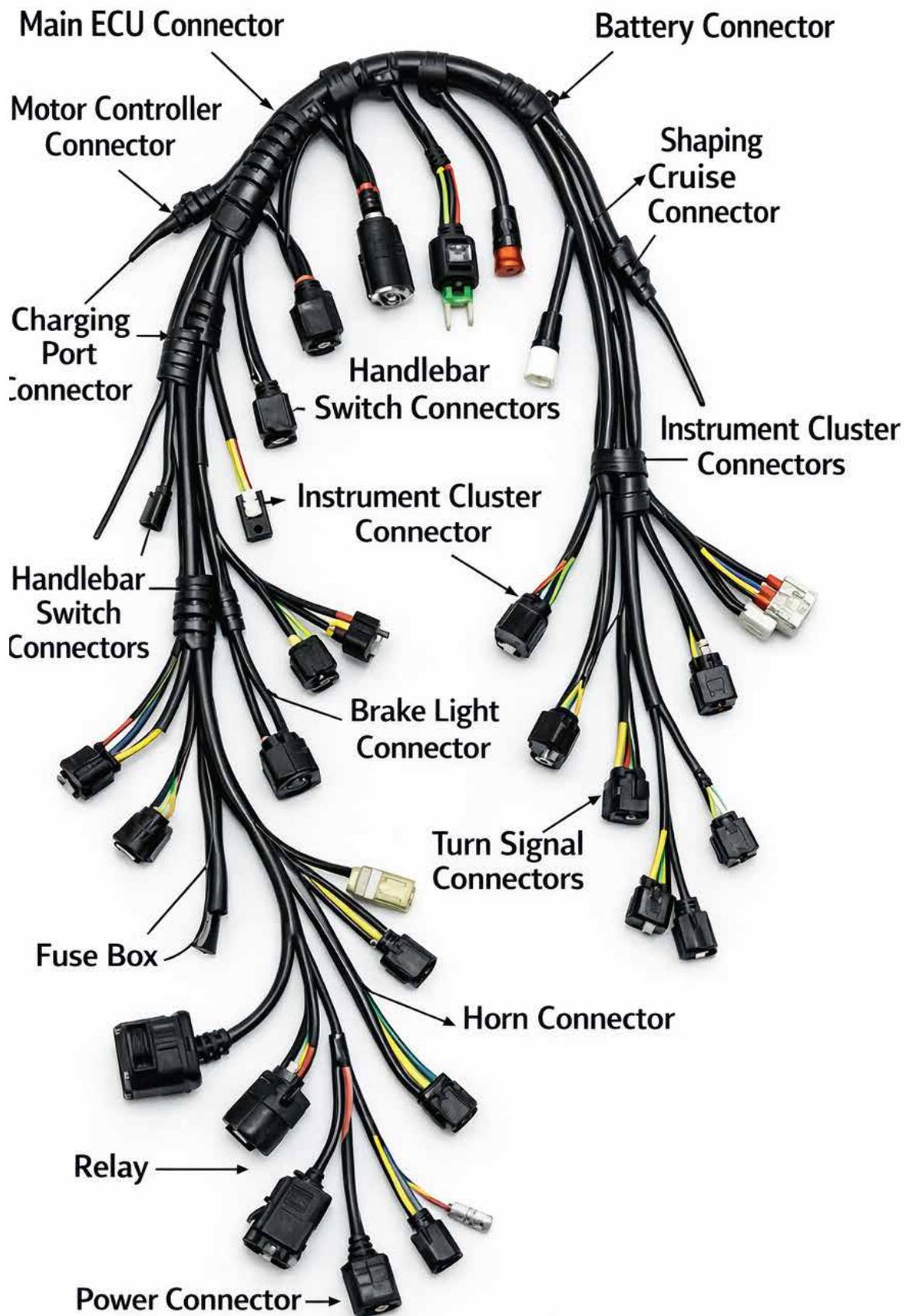
Harness Specifications	
Parameter	Specification
Voltage Rating	48V – 72V
Current Capacity	30A Max
Material	Copper Wires
Insulation	PVC & Heat Shrink
Length	Approx. 1.8 – 2.2 meters
Temperature Range	-20°C to 80°C

Connector Details	
Connector Type	Specification
Battery Connector	2 Pin (High Current)
Motor Connector	3 Pin (3 Phase)
Controller Connector	24 Pin Multi-Connector
Charging Port	2 Pin
Ignition Connector	4 Pin
Lighting Connectors	2 Pin & 3 Pin

Note:

1. Cross ref. given are nearest equivalent.
2. Specification can change without prior information.

Electric 2 Wheeler Wire Harness



Note:

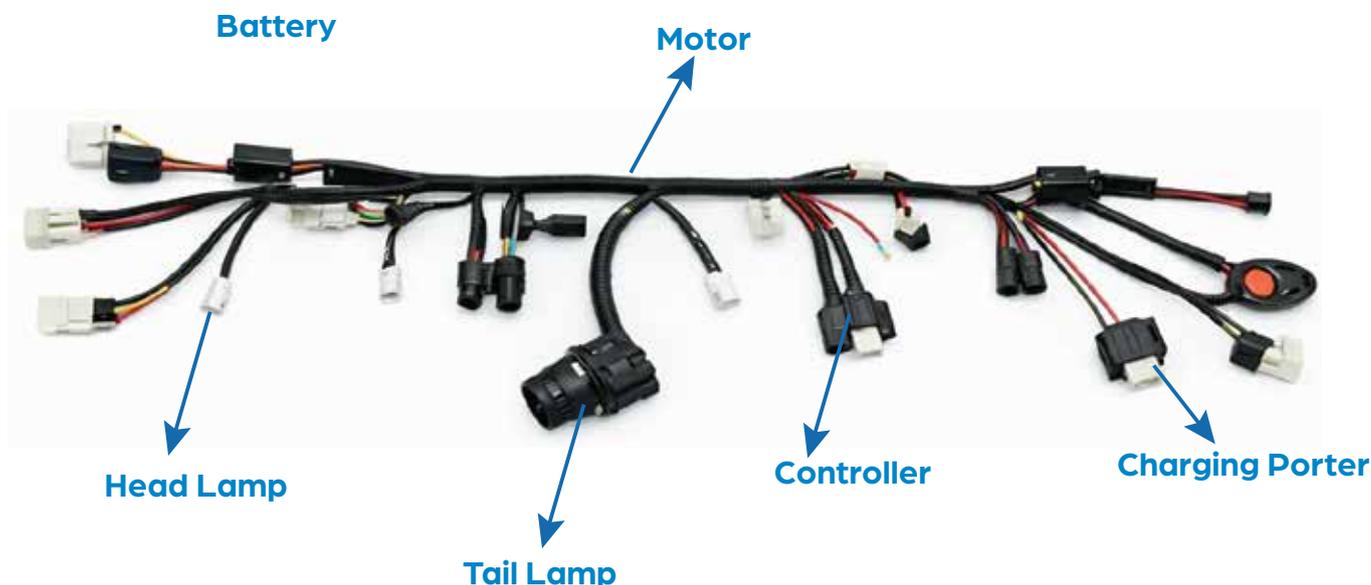
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Wire Harness Solutions for 3 Wheelers



Electric 3 Wheeler Wire Harness

A reliable and compact wiring system designed to safely distribute power and signals between the battery, controller, motor, and vehicle electronics, ensuring efficient performance and long-term durability.



Parameter	Specification
Operating Voltage	48V / 60V / 72V DC
Main Cable Type	FLRY / AV / EV-Cable
Wire Insulation	PVC / XLPE
Temperature Range	-20°C to +85°C
Fuse & Relay Box	Integrated Fuse & Relay Box
Connectors	Waterproof & Automotive Connectors
Tape Wrapping	PVC Tape & Fabric Tape

Note:

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Electric 3 Wheeler Wire Harness



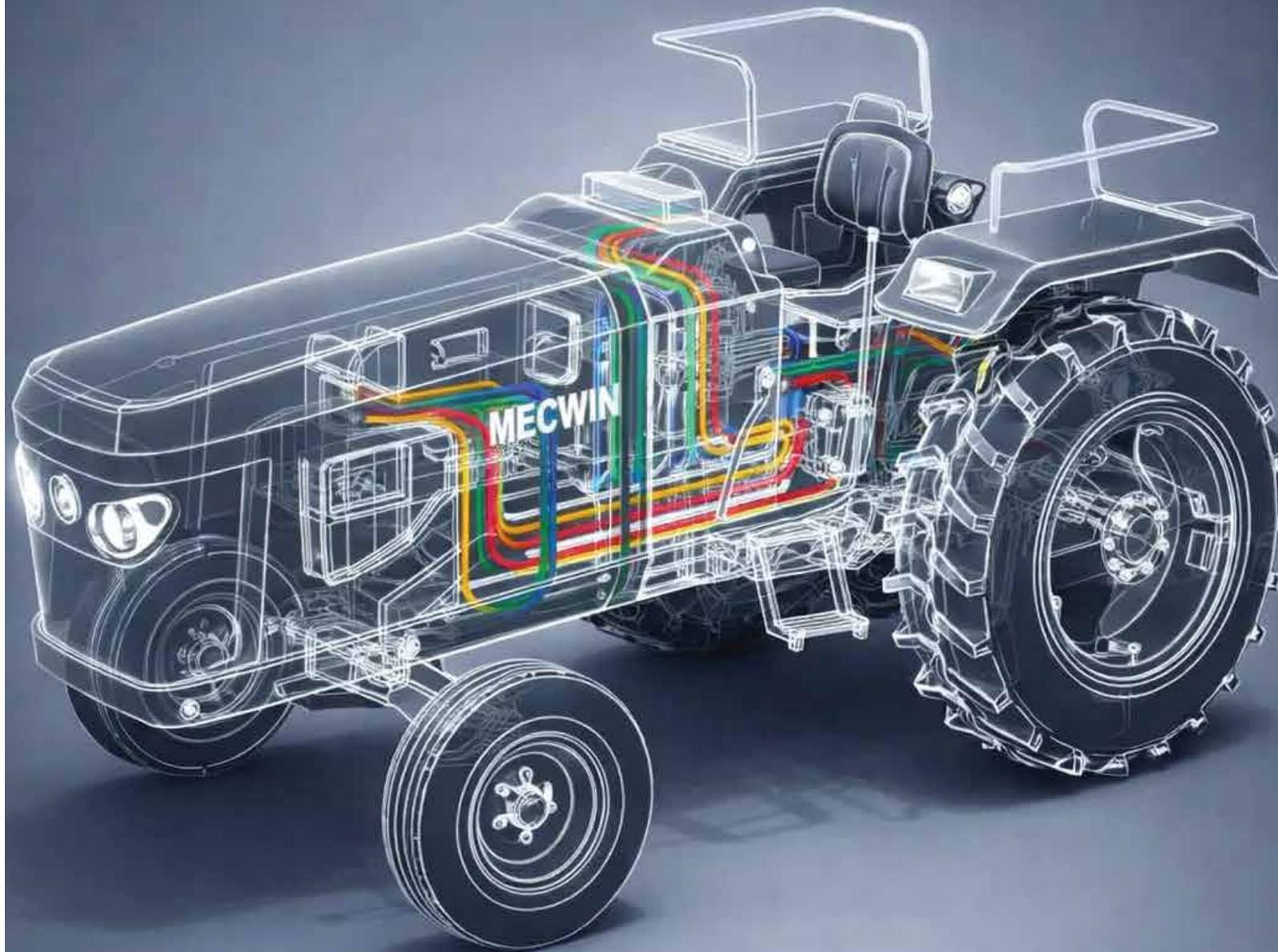
Parameter	Specification
Operating Voltage	48V / 60V / 72V
Current Capacity	Up to 150A
Temperature Range	-20°C to 80°C
Wire Insulation	PVC / XLPE / TPE
Connector Type	Waterproof / Automotive Grade
Protection	With Fuses & Relays
Harness Length	3.5 to 4.5 Meters

Sl. No.	Main Connections
1	Battery Terminals
2	Motor Controller
3	DC-DC Converter
4	Charger Port
5	Ignition / Key Switch
6	Instrument Cluster
7	Headlights & Tail Lights
8	Throttle & Brake Switches
9	Horn & Indicators

Note:

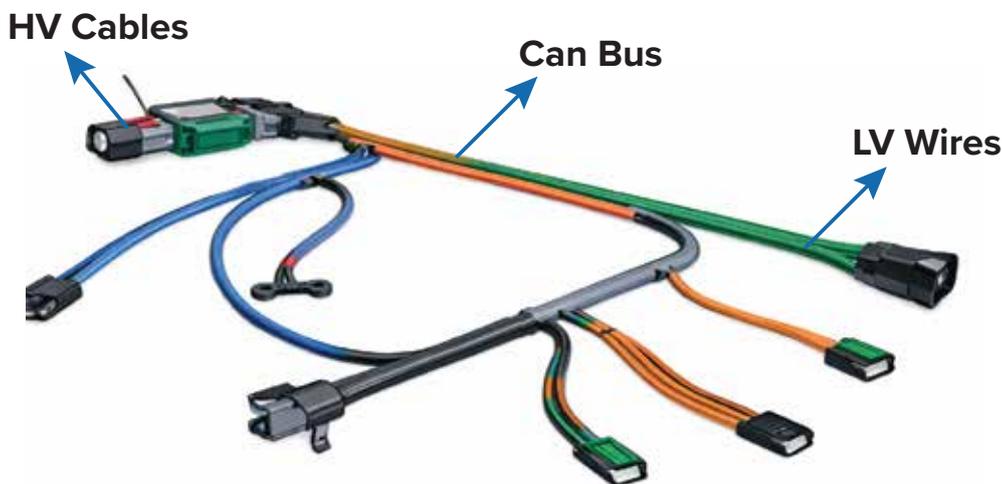
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Wire Harness Solutions for EV Tractors



EV Tractor Wire Harness

A robust and reliable wiring solution designed for electric tractors, ensuring efficient power distribution and seamless signal communication between key components. Built to withstand harsh agricultural environments, it enhances safety, durability, and overall system performance.



High Voltage Connector



Technical Specification	
Parameter	Details
Application	Electric Tractor
Voltage Rating	400V / 12V
Current Capacity	Up to 300A
Temperature Range	-40°C to +105°C
Shielding	EMI & RFI Protection
Insulation	XLPE & High Temp PVC
Certifications	RoHS, UL, ISO 9001

Protective Features	
Feature	Details
Conduit	Corrugated Conduit & Braided Sleeving
Wrapping	High-Temperature Tape Wrapping
Protection	Fuse Holders & Circuit Protection
Sealing	Grommets & Strain Reliefs

Wire Types	
Category	Details
High Voltage Cables	50 mm ² , 35 mm ² , 16 mm ² (Orange)
Low Voltage Wires	0.5 mm ² to 2.5 mm ² (Various Colors)
CAN Bus Wires	Twisted Pair – 22 AWG (Green/Yellow)
Signal & Sensor Wires	24 AWG to 18 AWG

Connectors	
Type	Details
High Voltage Connectors	HV Sealed Connectors (IP67)
Low Voltage Connectors	Automotive Sealed Connectors
CAN Bus Connectors	2-Pin and 3-Pin Connectors
Charging Connector	Type 2 or CCS Combo

EV Tractor Wire Harness



Voltage & Current Ratings	
Parameter	Details
High Voltage Lines	400V – 800V, Up to 250A
Low Voltage Lines	12V / 24V Systems
Signal & Communication Wires	CAN, LIN, Ethernet

Wire Types & Insulation	
Category	Details
High Voltage Wires	XLPE / Teflon Insulation
Low Voltage Wires	PVC / TPE Insulation
Signal Wires	Shielded Twisted Pair
Environmental Protection	Anti-Abrasion Sleeving, Corrugated Conduit

Connectors & Terminals	
Category	Details
High Voltage Connectors	HV-IL, Amphenol, TE
Low Voltage Connectors	Delphi, Molex, Yazaki
Sealing Rating	IP67 / IP69K Rated
Terminal Types	Ring Terminals, Pin, Socket Contacts

Harness Features	
Feature	Details
Thermal Protection	High Temperature Sheathing
EMI & RFI Shielding	Braided Shielding
Overmolded Junctions	Custom Molded Y-Splices
Cable Management	Clips, Ties, Wraps

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