HRBCN

6.35mm PITCH WATERPROOF CONNECTORS

High-Power Equipment Connectivity Solution



KEY SPECIFICATIONS

6.35mm waterproof connector series for power equipment and drive-system connections. Supports high-current transmission and reliable sealing for outdoor and industrial applications.

Pitch 6.35 mm	Rated Current 30A Max. (AWG10) 25A Max. (AWG12)	Rated Voltage 600V AC/DC
Waterproof Rating IPX7	Contact Resistance 10 mΩ Max.	Insulation Resistance 1000 MΩ Min.
Dielectric Withstand Voltage 2200V AC / 1 Min	Operating Temperature -40°C to +130°C	Applicable Pin Count 1x2 to 1x4 Pin 2x2 to 2x4 Pin
Applicable Wire Gauge AWG10–16		

COMPONENTS

01 Plug Housing

A-M63501WF



Positions
1x2–1x4 Pin
2x2–2x4 Pin

Matching Terminal
A–T63501WFPS

02 Receptacle Housing

A-M63502WF



Positions
1x2–1x4 Pin
2x2–2x4 Pin

Matching Terminal
A–T63502WFPS

03 Board Header

Straight Pin M63505WF
Right-Angle Pin M63505RWF



Positions
1x2–1x4 Pin

Mounting
PCB solder type,
for wire-to-board connection

04 TERMINALS



Female Terminal
A–T63501WFPS

Male Terminal
A–T63502WFPS

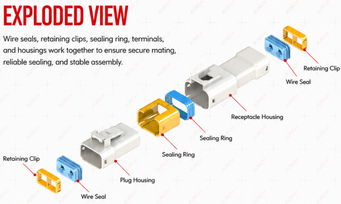
Material
Copper Alloy

Plating
Tin Plated

Applicable Wire Gauge
AWG10–16

EXPLODED VIEW

Wire seals, retaining clips, sealing ring, terminals, and housings work together to ensure secure mating, reliable sealing, and stable assembly.



APPLICATIONS

Designed for growing industry demand and higher-value connectivity applications.



Construction Machinery



AGV Logistics Robots



Refrigerated Trucks



Mining Lighting



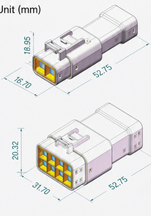
Energy Storage Equipment



Marine Equipment

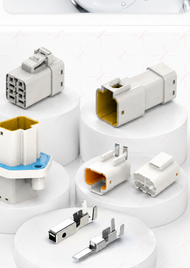
MATING DIMENSIONS

Unit (mm)



IP67-RATED WATERPROOF PROTECTION

IP67-rated sealing helps resist dust, rain, and temporary immersion, providing reliable protection for equipment.



PRODUCT ROADMAP

Designed for high-power equipment and drive-system connectivity, the 6.35mm waterproof connector series covers wire-end plug and receptacle housings, board headers, and terminal systems. Supporting up to 30A rated current (AWG10), it combines stable electrical transmission, reliable sealing, and strong environmental adaptability.