

Connectors

different types and usage

Bulkhead connectors :

<https://youtu.be/LJftESfqTsc>

- The 'male' part of a connector is called a plug while the 'female' piece is referred to as a socket.
- The male contact is called a pin, and the female contact is called a socket / receptacle
- Connectors have a maximum current load they can withhold
- An assembly of electrical cables or wires is called ; Cable harness , wire harness , cable assembly , wiring assembly , wiring loom
- A tug test
 - slightly pull a wire from a connector , crimped terminal contact or terminal strip to see if it holds the wire well .
- Leave a gap between wire insulation and a contact terminal . The thickness of the gap is about that of the thumb nail
- We ' mate ' connectors that is we join two pieces together .
- 'Keyed ' connectors are fitted with a mechanical component (keyway) that prevents mating in a wrong orientation
- Most common types of connectors are;
 - Deutsch connectors
 - WAGO connectors
 - Bulkhead connectors
 - D-Sub connector
 - Push-Pull connectors
 - Circular connectors
 - PCB connector

Connectors.jpeg

Wire harness

Connectors_1.jpeg

Connectors_2.jpeg

Deutsch Connectors

Connectors_3.jpeg

Circular connectors

Connectors_4.jpeg

Push-pull connectors

Connectors_5.jpeg

D-Sub connectors

Connectors_6.jpeg

D-Sub back shells (housing)

Connectors_7.jpeg

PCB connectors

Connectors_8.jpeg

WAGO connectors

Connectors_9.jpeg