

# 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