

Yazaki Engineering Standard Connector, 0.5 Series

Mass-
Produced
Product

Compliant with USCAR standard interface (non-waterproof 0.5)
0.64, 1.5, 2.8, 6.3, and 9.5 series available in YESC (non-waterproof/waterproof)

Background or Challenges

- Device standardization is advancing across OEMs, and standardized connector interfaces are commonly used in these devices
- The use of aluminum wires is increasing due to rising copper prices and the need for weight reduction
- A connector design that ensures full mating is required to prevent half mating

Solutions to Challenges or Features

1

Compliant with USCAR standard interface (non-waterproof 0.5)
Sn or Ag plating can be selected

2

Copper or aluminum wire can be selected (terminals available for each)

3

Detects connector half mating by CPA*

* CPA: Connector Position Assurance, a component that ensures the connector mating

Specifications

| | |
|----------------------------------|---|
| Number of poles | PCB male: 6P, HYB24P W to W: 4P to 24P |
| Terminal size [mm] | 0.5 |
| Pitch [mm] (H x V) | 2.0 x 2.2 |
| Wire diameter [mm ²] | 0.13 to 0.5 |
| Rated current [A] | 7.5 at 40°C (All-pole energized) |
| Rated voltage [V] | 12V |
| Color variation | BLACK, LIGHT GRAY, GREEN, and BLUE |

Appearance

