

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

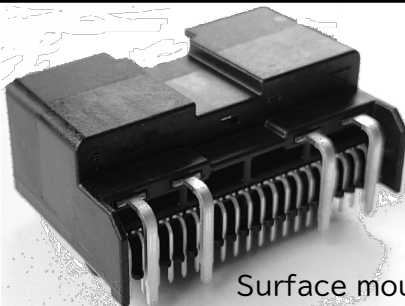

- 1 Compliant with USCAR standard interface (non-waterproof 0.5)
Sn or Ag plating can be selected
- 2 Copper or aluminum wire can be selected (terminals available for each)
- 3 Detects connector half mating by CPA*

* 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

PCB male Rep: HYB24P (0.5x20+2.8x4)		 Surface mounting: TH
W to W Rep: 8P	Male	
	Female	