

1.2 Waterproof Connector

Mass-Produced Product

Connectors used for autonomous driving and safety devices (Sonar sensor, millimeter-wave radar, satellite sensor, exhaust gas temperature sensor, etc.)

Background or Challenges

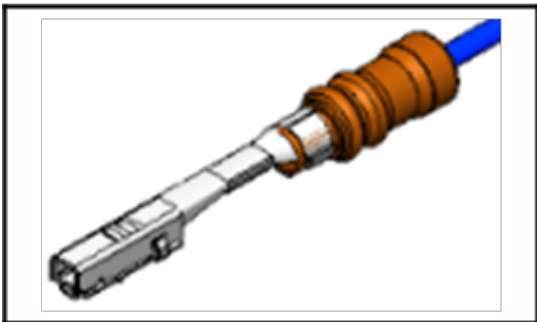
- Device standardization is advancing across OEMs, and standardized connector interfaces are commonly used in these devices
- The use of aluminum wires is increasing due to rising copper prices and the need for weight reduction
- A connector design that ensures full mating is required to prevent half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

Solutions to Challenges or Features

- 1
- Compliant with USCAR standard interface, waterproofing 1.2
Sn or Ag plating can be selected
- 2
- Copper or aluminum wire can be selected (terminals available for each)
- 3
- Available with/without CPA*1

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

Specifications



Applicable wires

Terminal		CIVUS			ALVUS		CAVS	
		0.35	0.5	0.75	0.5	0.75	0.3	0.5
S size	Sn	Available	Available	-	Available	-	Available	Available
	Ag	Available	Available	-	Available	-	Available	Available
M size	Sn	-	-	Available	-	Available	-	-
	Ag	-	-	Available	-	Available	-	-

Appearance

*2: Design completed, but mold not yet available

CPA ^{*1}	2P	3P	4P	5P	6P
With CPA ^{*1}	*2 	7278-0400-30 	7278-0402-30 	*2 	*2
Without CPA ^{*1}	*2 	*2 	*2 	*2 	*2