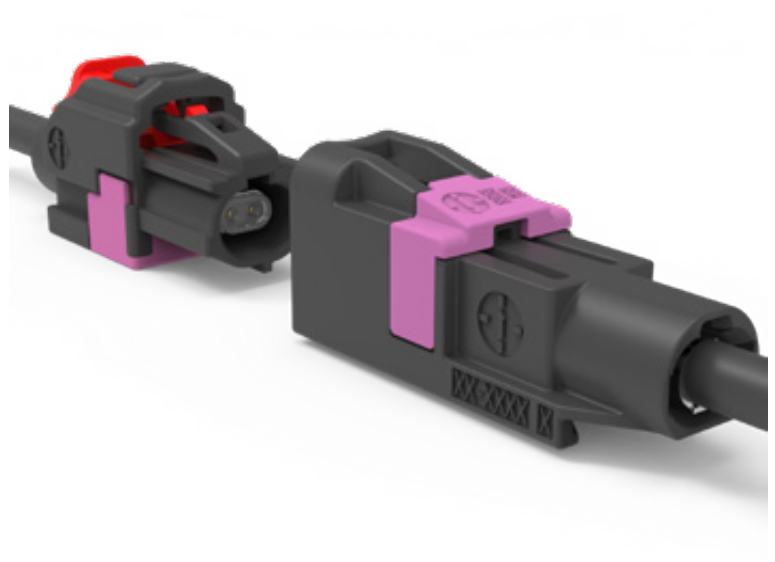




# 1DP Ethernet Series

## Technical Characteristics

Configurations	NWP = 1, 2, 4 or 6 ways WP = 1, 2, 4 or 6 ways Hybrid
Clip Slot	EWCAP-005-7
Validation & Certification	USCAR ISO GMW 3191 10G BASE-T1 RoHS
Mechanical	Retention force $\geq 110\text{N}$ Unmating $\leq xx\text{ N}$
Electrical	Current rating $xx\text{A}$
Environmental	Vibration class Temperature class Durability $xx\text{ cycles}$



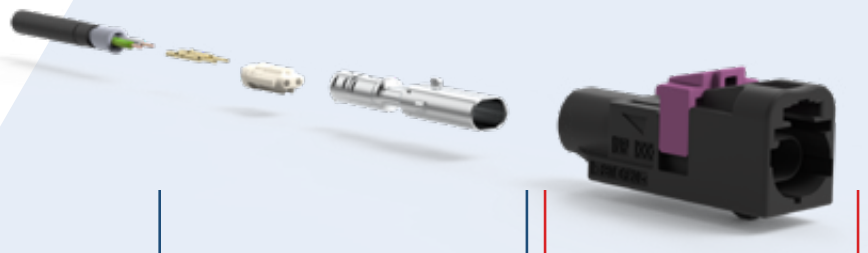
## Compatible Cable Types

Mechanical	Retention force $\geq 110\text{N}$ Unmating $\leq xx\text{ N}$
Electrical	Current rating $xx\text{A}$

## Main Benefits

Same housing for all cable types  
Automated assembly process  
Dress cover provision (stress relief)

Yazaki is a leading automotive wire harness and connector supplier. Raydiall a key player in the RF and high speed data connection space. With this partnership Yazaki and Raydiall bring to the market with the 1DP series a vertically integrated solution... while offering alternative sourcing, additional protection from supply chain constraints and production disruptions.



### RAYDIALL

- Terminal components

### YAZAKI

- Plastic housing
- Crimping / cable assembly

# 1DP Ethernet Series

## Terminal Design Features



- One-piece terminal
- Stamped and formed
- Same part from the interface to the crimping portion of the terminal
- H-MTD interface compatible, proprietary cavity design



### X4 Elastic Tines

Large dimension (for stiffness)  
Protection with solid front ring

### Mat Seal Compatible

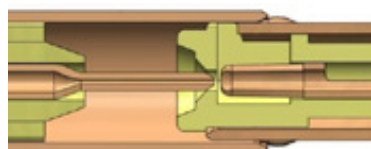
Fin optimized to prevent damage

### Front Ring, Close Entry

Solid protection of the ground tines

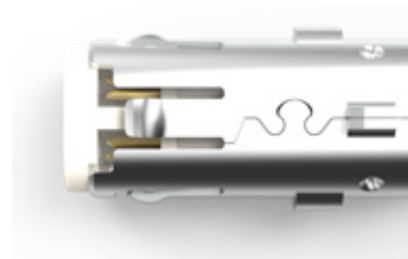
### Front Guide

Helps with mating of the male  
Low friction plastic



### Insulator Chamfered Lead-in

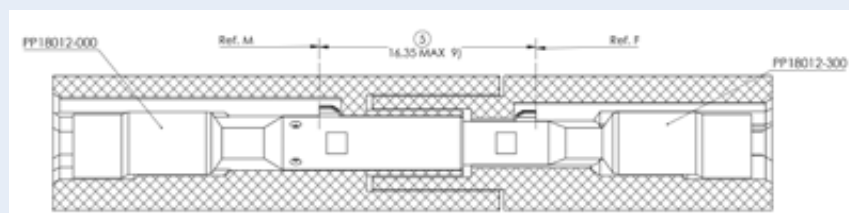
Anti-stubbing feature  
Dia 1.23 mm



### Top Opening

Control center contact  
position with visual system

Captivity drawing available upon request,  
for development of custom housings.



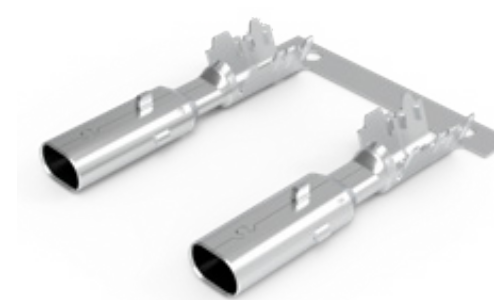
# 1DP Ethernet Series

## Cable Connector Portfolio

### Female



### Male



### TERMINAL

100 Mbps	1 Gbps	2.5 Gbps	5 Gbps	10 Gbps	>10 Gbps	Cable	100 Mbps	1 Gbps	2.5 Gbps	5 Gbps	10 Gbps	>10 Gbps
						UTP (TBD)						
						LEONI Dacar 647-4						
						G&G 2Speed251						

Product Tool

In-Process  
Portfolio Extension

### CONNECTOR



### Unsealed Connector Family



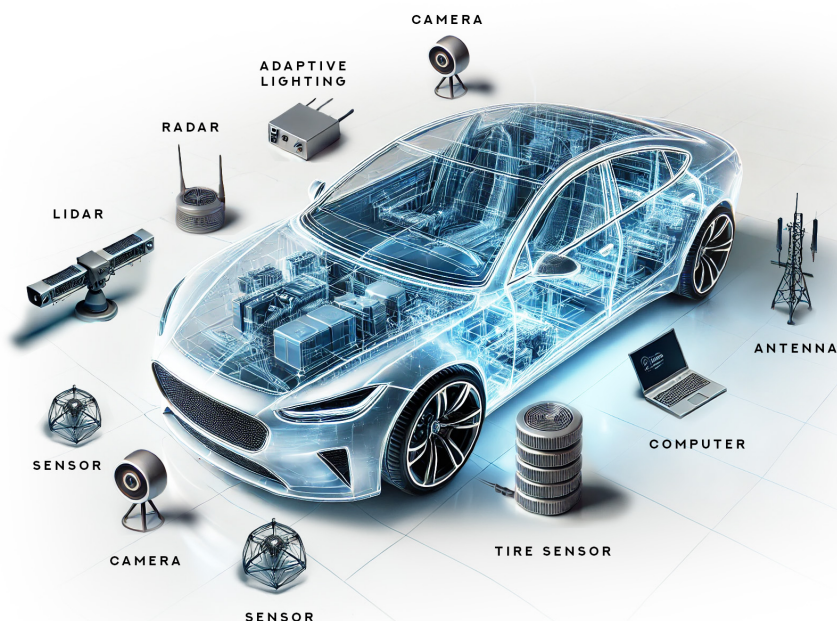
### Sealed Connector Family



- CPA mating detection
- TPA anti-inadvertent actuation feature (prevent involuntary activation during shipping, handling or pre-assembly)
- Terminal detection feature TPA activation not possible if terminal not fully inserted and seated into the housing

# 1DP Ethernet Series

Raydiall & Yazaki Paving the Way for Innovation



In the era of infotainment and autonomous driving, faster data connections are essential in cars. Automotive Ethernet connectors, such as the 1DP (1 Data Pair), play a crucial role. These connectors, based on Ethernet technology, support zonal architectures and software-defined vehicles.

The complex design inherent to high speed connectors demands precise processing. Newest generation of wiring machine (like Komax's Lambda 4, 5 or X) offers efficient, semi-automatic wire processing, ensuring high quality. Additionally, crimp force monitoring conjugated with vision system enhance quality control.

## Expertise

Yazaki, one of the world's leading EDS (Electrical Distribution System) suppliers, offers unparalleled expertise and scale. Raydiall contributes with its proven proficiency in crafting smart, cost-effective data connectors, and top-notch manufacturing and assembly equipment, ensuring flawless execution.

## Risk Mitigation

Your operations are our priority.

We've meticulously selected our suppliers from local sources to fortify our value stream and mitigate supply chain disruptions and capacity constraints.

Furthermore, we provide terminal cavity drawings to third parties interested in crafting custom housings, enhancing our collaborative approach.

## Awards and Recognition

We're proud recipients of the Supplier of the Year award, a testament to our consistent excellence.

## Service and Support

Our established relationships with cable assembly suppliers ensure reliable support, building on our successful history with similar commodities.

**AS VEHICLES BECOME  
SMARTER, WE ARE  
PAVING THE WAY FOR  
INNOVATION**

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