

NEWS RELEASE**Yokowo Co., Ltd. has developed the world's smallest spring connector™※1 and commercialized Yokowo's first USB4 compatible high-speed transmission 40Gbps waterproof connector.**

Achieved a 60% reduction in size compared to conventional products by utilizing the know-how of probe manufacturing used in semiconductor inspection jigs.



The World Smallest Spring Connector ※1



High Speed Transmission 40GbpsWater proof connector

Yokowo Co., Ltd. (Headquarters: Chiyoda-ku, Tokyo, President: Takayuki Tokuma) has developed the "world's smallest SPRING CONNECTOR™ (Pogo Pins)" with a diameter of only $\phi 0.35\text{mm}$ for the first time. Yokowo, will commercialize the first USB4.0 compatible "high-speed transmission 40Gbps waterproof connector" using this Pogo Pins. Sample shipments will start in October.

The thinnest tube diameter for Yokowo's Pogo Pins until now was $\phi 0.85\text{mm}$, but the diameter of this newly developed world's smallest Pogo Pins is about 60% thinner at $\phi 0.35\text{mm}$. This was made possible by utilizing one of Yokowo's divisions that has the manufacturing, know-how of contact probes used in semiconductor inspection jigs, which we've combined with our mass production capabilities and cost-effective manufacturing methods required for electronic components.

Yokowo has also commercialized the industry's※1 first 40Gbps high-speed waterproof connector using the world's smallest Pogo Pins. This product meets the strict standards of USB4 by reducing signal attenuation with the thin Pogo Pins and suppressing noise with a metal housing. In addition, potting achieves high waterproof performance equivalent to IPX7, and because the Pogo Pin is thin, it is possible to layout more Pogo Pins in a small space, contributing to the miniaturization of the connector size.

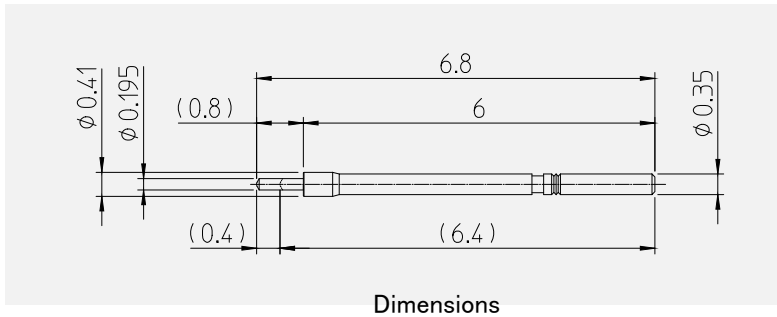
As devices become smaller in various industries, there is a demand for smaller and lighter parts to efficiently use limited space. The newly developed world's smallest Pogo Pin connector maintains the advantages of easy attachment and detachment of Pogo Pins while achieving more space-saving than ever before, contributing to simplifying our customers' design.

※1 According to our research

<Reference>

■ Product Features of the World's Smallest Spring Connector

- Achieved 60% thinner diameter compared to conventional products
- Reduced signal attenuation due to the thin diameter



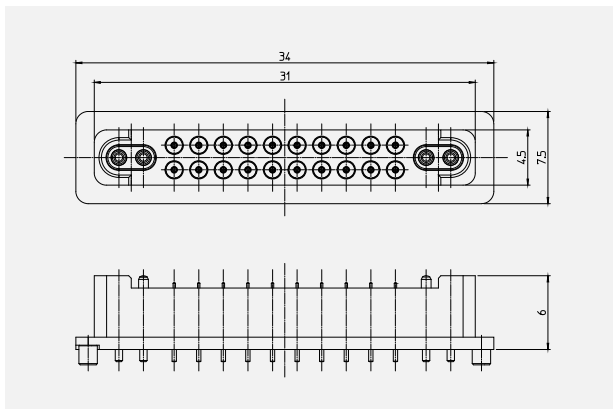
■ Specification

ITEM	Specification	Conditions
Pin Diameter	φ 0.195	-
Tube Diameter	φ 0.35	-
Contact Resistance	50mΩ Max.	-
Durability	Contact Resistance 100mΩ Max.	Compression 20,000cycles
Current Rating	1.0A	-
Environmental Resistance	Equivalent to conventional products	Equivalent to conventional products

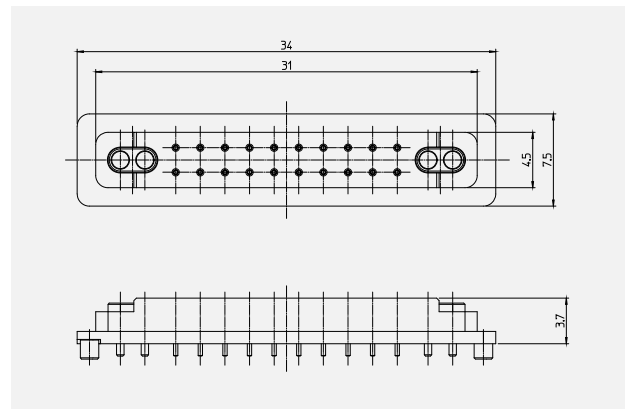
<Reference Materials>

■ Product Features of the High-Speed Transmission 40Gbps Waterproof Connector

- Uses the world's smallest Pogo Pin, which is 60% thinner than conventional products
- Supports USB4 transmission speed of 40Gbps
- Uses a metal housing considering EMI
- Achieves waterproof performance of IPX7
- Supports 24-pin arrangement



Spring Connector



Pad Connector (Target)



■ Product Features of the High-Speed Transmission 40Gbps Waterproof Connector

ITEM	Specification	Conditions
Current Rating	5A(Power) / 0.5A(Signal)	–
Contact Resistance	50mΩ Max.	–
Insulation Resistance	100MΩ	DC500V 1min
Dielectric Strength	3mA(MAX.) leakage	AC500V 1min
Cycle Durability	Contact Resistance 100mΩ Max.	Compression 20,000cycles
Environmental Resistance	Equivalent to conventional products	Equivalent to conventional products

■ Company Overview

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(Note) The information contained in the news release is as of the date of the announcement. It is subject to change without notice. Please be aware of this in advance.

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