

USB from Hirose Electric:  
Standard connections, inspired solutions.



Features

- 1 **USB Type-C compliant interface connector**
  - USB4 Gen.2 (10Gbps), high speed transmission
- 2 **Uses micro coaxial cable**
  - Thin and soft cable for easy handling
  - Excellent high-speed transmission characteristics and flexibility
- 3 **3 types of double-ended plug cable assembly available**
  - Slim Type, Screw Locking Type (Dual Screw/Single Screw)




Wide Variation


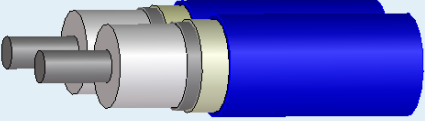
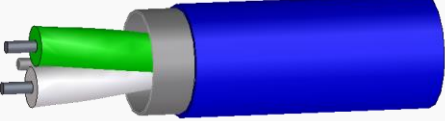


Click Feeling



USB4

	 Micro Coaxial Cable	STP
Softness (Flexibility)	Very Good	Poor
Flexural Strength	Very Good	Poor
Cable Outer Diameter	Good (ø4.8)	Fair (ø5 Min.)
High-Speed Transmission Characteristics (Initial)	Very Good	Good
High-Speed Transmission Characteristics (50,000 bends)	Very Good (10Gbps)	Poor (10Gbps)
Price	Fair	Good

Type	 Micro Coaxial Cable	STP
Design		
	<ul style="list-style-type: none"><li>- A coaxial cable is used for the SuperSpeed line.</li><li>- Coaxial characteristic impedance is 45Ω</li><li>- The SuperSpeed line consists of 2 coaxial cables per pair and 4 sets of coaxial cable pairs (8 cables)</li></ul>	<ul style="list-style-type: none"><li>- STP used for the SuperSpeed line.</li><li>- STP's characteristic impedance is 90Ω</li><li>- STP 4-cable configuration</li></ul>
Features	<ul style="list-style-type: none"><li>- Relatively <b>expensive</b></li><li>- The cable is <b>soft</b>.</li><li>- The cable <b>resists characteristic degradation caused by bending</b>.</li><li>- The coaxial cable has a rigid shield design. It has <b>high frequency</b>, <b>low attenuation</b> and <b>high stability</b>.</li></ul>	<ul style="list-style-type: none"><li>- <b>Cheap</b></li><li>- A set of <b>rigid cable pairs</b>.</li><li>- The cable characteristics degrade when bended.</li><li>- Electric properties have <b>low stability</b> due to the design.</li><li>- The twin-core twisted pair design <b>stabilizes the internal skew</b>.</li></ul>

\*STP: Shielded Twisted Pair