Coaxial cable for camera with bending and twisting resistance

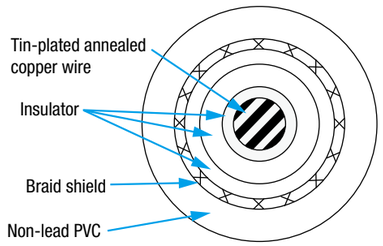
CO-PPFV-SX

Features

- Realizes a high bending characteristic by using our original copper alloy.
- Realizes a low attenuation characteristic by adopting our original three-layered insulating structure.

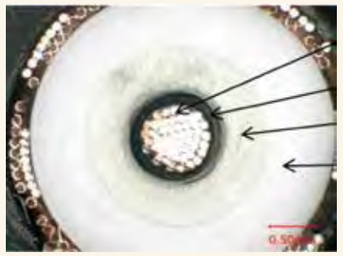
Use

- For connection to a camera sensor



Example of cable structure

Featured three-layer structure!



Three layers are combined so that low attenuation and a crack-prevented insulator can coexist, thereby enabling use in a small area.

Characteristics

- Rating temperature: 80°C
- Rating voltage: 30 V

U-shape bending / ±90° bending / Twisting / Small diameter / Characteristic impedance 75(Ω) / RoHS conformity

Cable structure and performance

Item		Unit	Standard values of various coaxial cables	
			①1X24AWG	②1X30AWG
Conductor	Configuration	No./mm	50/0.08	19/0.06
	Outer diameter	mm	0.65	0.30
Finished outer diameter		mm	6.5	2.9
Approx. mass		kg/km	50	11
Transmission characteristics	Characteristic impedance (10 MHz)	Ω	75±4	
	Attenuation (625 MHz)	—	21.2dB/30m or less	21.2dB/3m or less
Allowable bending radius		mm	39	18

LAN cable for movable sections

UL20276-SB (FLEX-C5E)

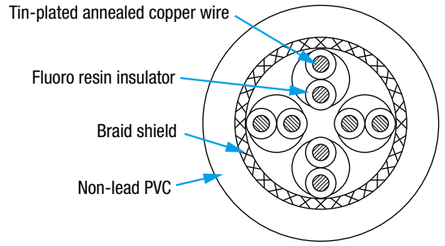
Conformity standard: UL 758

Features

- Adapts Cat.5e-compatible 4-pair LAN cable to realize superior bending resistance and flexibility.
- Enables the mounting of a modular connector with a general shield.
- Enables use of a length up to 40 m.
  (A length longer than 40 m can also be customized.)

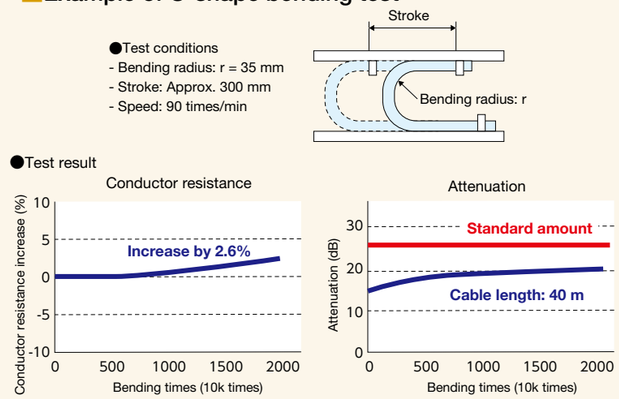
Use

- Wiring of robots and machine tools where U-shape bending is applied



Example of cable structure

Example of U-shape bending test



Characteristics

- Rating temperature: 80°C
- Rating voltage: 30 V

U-shape bending / ±90° bending / Twisting / Characteristic impedance 100(Ω) / UL conformity / RoHS conformity

Cable structure and performance

Item		Unit	Standard value
Conductor	AWG size	—	26
	Configuration	No./mm	30/0.08
	Outer diameter	mm	0.51
Insulator	Standard thickness	mm	0.24
	Outer diameter	mm	1.0
Finished outer diameter		mm	6.6
Approx. mass		kg/km	63
Characteristic impedance (1~100 MHz)		Ω	100±15
Bending radius		mm	40