

Mini Camera Link Cable Assemblies for Machine Vision



Mini Camera Link is Camera Link, which is an interface standard for FA digital video cameras, using the SDR26P connector. The PoCL version includes additional power line to supply power to a camera.



Left side angle



Right side angle

Usage

Connecting a digital video camera using the Mini Camera Link interface to a frame grabber

Features

- The standard cable, which complies with the Camera Link specifications, supports medium / full configurations (when using two cables).
- The flex resistant / high sliding and thin cables support base / medium configurations. *1
- The lineup allows users to choose cables suitable for usage, e.g. cables for fixed parts or moving parts.
- Signal lines are designed with manufacturing technology developed through the manufacturing of high-speed transmission cables for semiconductor production devices, to offer advanced accuracy in external diameter and relative permittivity.
- These cables use the SDR26P connector and can be combined with MDR26P.
- The connectors are molded in either the straight or right angle type, with extension cables also available. *2
- These cables are UL compliant and have cleared the VW-1 test for flame resistance.
- These cables are RoHS Directive compliant.

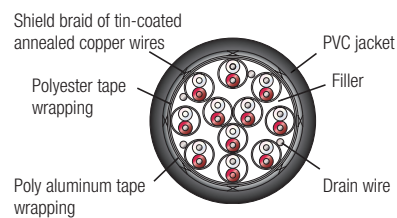
Structure and performance

Item	For fixed parts			For moving parts		
	Standard	Standard PoCL	Thin	Flex resistant / high sliding	Flex resistant / high sliding PoCL	Thin
Signal conductor size (AWG)	28AWG	28AWG	28AWG	28AWG	28AWG	28AWG
External jacket diameter (mm)	9.0	9.0	6.9	9.0	9.0	6.9
Voltage / temperature rating	30V/80°C					
Characteristic impedance	100±10					
Within-pair skew (ps/m)	No more than 50					
Pair-to-pair skew (ps/m)	No more than 50					
Transmission distance (m) *3	No more than 10					
Flame resistance	VW-1					

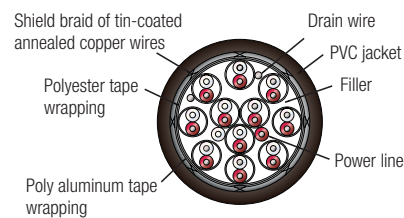
*1 Different from the structure defined in the Camera Link specifications

*2 The Camera Link specifications stipulate the cable length to be the maximum of 10 meters. Transmission distance when an extension cable is used varies according to the performance of the camera and frame grabber involved. Please check their performance in advance when using an extension cable.

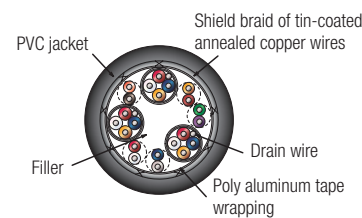
*3 The transmission distance shown is a nominal value at a clock frequency of 85MHz. It is not a guaranteed value as it may be affected by camera and frame grabber performance.



The structure of the standard and flex resistant / high sliding cables



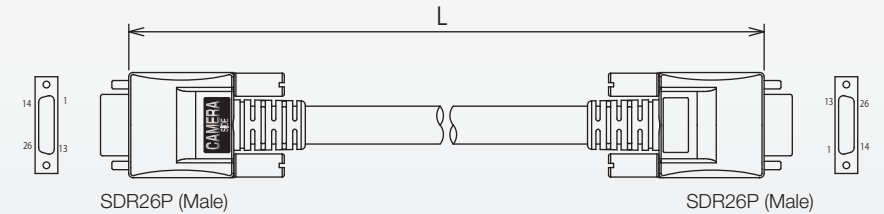
The structure of the standard and flex resistant / high sliding (PoCL) cables



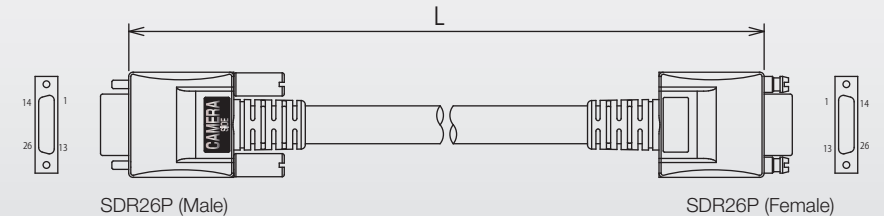
The structure of the thin cable

External appearance | Examples of products in the Mini Camera Link Cable Assembly lineup

■ SDR26P Male (Straight) – SDR26P Male (Straight)

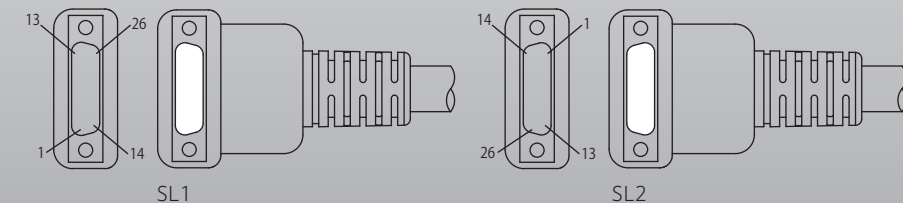
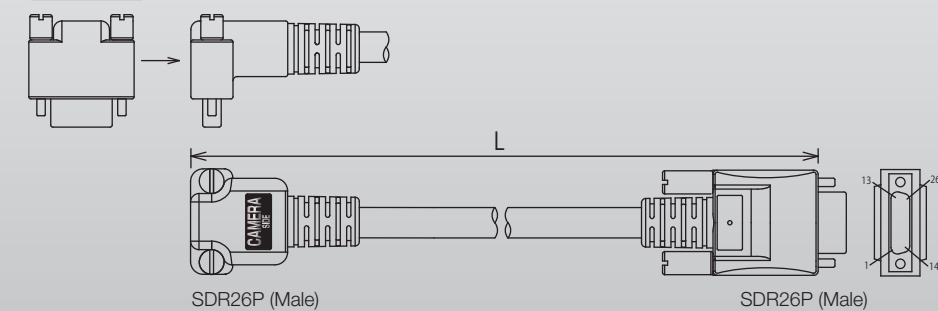


■ Extension cable: SDR26P Male (Straight) – SDR26P Female (Straight)



■ SDR26P Male (Right angle) – SDR26P Male (Straight)

→ Profile when seen in the arrow's direction



The right angle connector is available in two types as shown above. Please select SL1 or SL2 according to the direction of how the cable needs to come out.



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