

3M Camera Link Cable Assemblies

Proven, reliable solutions for a proven, reliable standard.

Your machine vision systems depend on effective Camera Link compliance – the established foundation of connectivity in factory automation. 3M is one of the originators of the Camera Link standard. We have consistently led the way in developing total interconnect solutions for Camera Link, PoCL and PoCL Lite applications.

Today, 3M Camera Link Cable Assemblies include MDR/SDR connectors, boardmount connectors and cable variations to meet a broad range of electrical and mechanical requirements. You can configure to meet specific needs for transmission speed, cable distance, inter- and intra-device connections, signaling voltage and more. And our global presence helps ensure that the cable solutions you need are always within reach.



Versatility for the Camera Link standard.

This variety of connectors puts you at the forefront of Camera Link system design and capabilities. 3M Camera Link connectors are integral parts of our full cable assemblies, which are supported by longstanding expertise in cable design and technology.

Mini Camera Link 3M™ SDR 26 position



Straight

Low profile
right angle

Camera Link 3M™ MDR 26 position



Straight

Low profile
right angle

Relay cable with
junction connector

Decades of performance in Camera Link systems

3M provides Camera Link and PoCL cable assemblies that deliver consistently high performance¹ in a range of configurations. Flex cables feature U-shaped bending durability tested at 10 million cycles.²

Properties

Standard	Cable Type	Configuration	Color	Cable Diameter	Impedance	Skew
PoCL / Camera Link	Fixed	Full	Beige	Φ9.0mm	100±10Ω	38ps / mMax
		Base-Medium	Gray	Φ6.9mm		50ps / mMax
	Flex	Base-Medium	Black	Φ9.0mm		

Transmission distance

Standard	Cable Type	Configuration	40MHz	66MHz	85MHz
PoCL / Camera Link	Fixed	Full	10m	8m	5m
PoCL / Camera Link	Fixed	Base-Medium	10m	8m	5m
PoCL / Camera Link	Flex	Base-Medium	10m	7m	5m

¹All values are tested under 3M lab test conditions and are meant for reference. Functionality depends on camera/host combination and skew. Testing with the actual equipment is recommended.

²No open/no significant degradation in electrical characteristics after 10 million cycles of R50 drag-chain bending.

Ordering Information: 3M Camera Link Cable Assemblies

				Cable Direction		
		Connector Type		Straight to Straight	Camera Side Low Profile Right Angle Board Side Straight	
Cable Type	Configuration	Camera Side	Board Side		Cable Direction In Right Angle Shell Side	
					Upward	Downward
Camera Link Applicable for PoCL						
Fixed	Full	MDR	MDR	14B26-WZMB-xxx-0LC	14H26-WZMS-xxx-0LC	14H26-WZMM-xxx-0LC
Fixed	Full	SDR	SDR	1SB26-L120-00C-xxx	1SB26-L137-00C-xxx	1SB26-L136-00C-xxx
Fixed	Full	SDR	MDR	1MB26-L560-00C-xxx	1MB26-L577-00C-xxx	1MB26-L576-00C-xxx
Fixed	Full	MDR	SDR		1MB26-L587-00C-xxx	1MB26-L586-00C-xxx
Fixed	Base-Medium	MDR	MDR	14B26-WZPB-xxx-03C	14H26-WZPS-xxx-03C	14H26-WZPM-xxx-03C
Fixed	Base-Medium	SDR	SDR	1SD26-3120-00C-xxx	1SD26-3137-00C-xxx	1SD26-3136-00C-xxx
Fixed	Base-Medium	SDR	MDR	1MD26-3560-00C-xxx	1MD26-3577-00C-xxx	1MD26-3576-00C-xxx
Fixed	Base-Medium	MDR	SDR	1ME26-3560-00C-xxx	1ME26-35A7-00C-xxx	1ME26-35A6-00C-xxx
Flex	Base-Medium	MDR	MDR	14B26-WZPB-xxx-0RC	14H26-WZPS-xxx-0RC	14H26-WZPM-xxx-0RC
Flex	Base-Medium	SDR	SDR	1SD26-R120-00C-xxx	1SD26-R137-00C-xxx	1SD26-R136-00C-xxx
Flex	Base-Medium	SDR	MDR	1MD26-R560-00C-xxx	1MD26-R577-00C-xxx	1MD26-R576-00C-xxx
Flex	Base-Medium	MDR	SDR	1ME26-R560-00C-xxx	1ME26-R5A7-00C-xxx	1ME26-R5A6-00C-xxx
Camera Link Not applicable for PoCL						
Fixed	Full	MDR	MDR	14B26-SZLB-xxx-0LC	14H26-SZLS-xxx-0LC	14H26-SZLM-xxx-0LC
Fixed	Full	SDR	SDR	1SF26-L120-00C-xxx	1SF26-L137-00C-xxx	1SF26-L136-00C-xxx
Fixed	Full	SDR	MDR	1MF26-L560-00C-xxx	1MF26-L577-00C-xxx	1MF26-L576-00C-xxx
Fixed	Full	MDR	SDR		1MF26-L587-00C-xxx	1MF26-L586-00C-xxx
Fixed	Base-Medium	MDR	MDR	14B26-SZ3B-xxx-03C	14H26-SZ3S-xxx-03C	14H26-SZ3M-xxx-03C
Fixed	Base-Medium	SDR	SDR	1SA26-3120-00C-xxx	1SA26-3137-00C-xxx	1SA26-3136-00C-xxx
Fixed	Base-Medium	SDR	MDR	1MA26-3560-00C-xxx	1MA26-3577-00C-xxx	1MA26-3576-00C-xxx
Fixed	Base-Medium	MDR	SDR	1MM26-3560-00C-xxx	1MM26-35A7-00C-xxx	1MM26-35A6-00C-xxx

3M Angled Camera Link Connectors

Save space. Create new possibilities.

Angled 3M Camera Link MDR and SDR cable connectors enable reliable connections for PoCL applications, even in tight or complex spaces. This enables smaller cabling footprints – and opens up a new world of design flexibility. These connectors can also reduce stress on cables, especially in motion applications.



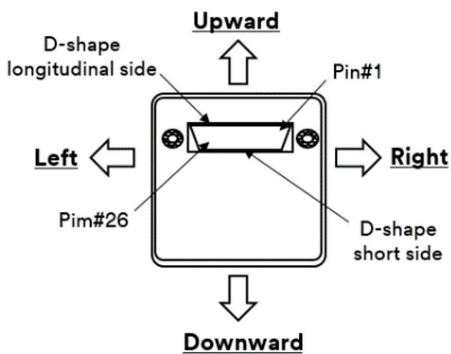
SDR 26-position
right/left type



SDR 26-position
upward/downward type

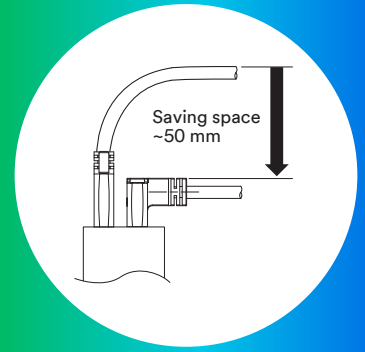


MDR 26-position
upward/downward type



Choosing your Camera Link angled connector

This drawing shows a connector side Camera Link camera port, as well as pin orientation for the connector (pin #1 side up). Use this to choose the correct angled connector for your required cable route direction.



3M Camera Link connectors can save as much as 50 mm footprint per connection while reducing stress on cables.

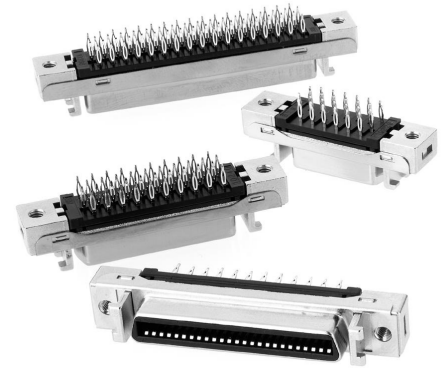
Ordering Information: 3M Camera Link Angled Connectors

Cable Type	Configuration	Camera Side	Board Side	Cable Direction		
				Straight to Straight	Camera Side Low Profile Right Angle Board Side Straight	
					Left	Right
PoCL						
Fixed	Base-Medium	SDR	SDR	1SD26-3120-00C-xxx	1SD26-31H2-00C-xxx	1SD26-31H1-00C-xxx
Fixed	Base-Medium	SDR	MDR	1MD26-3560-00C-xxx	1MD26-35H2-00C-xxx	1MD26-35H1-00C-xxx
Flex	Base-Medium	SDR	SDR	1SD26-R120-00C-xxx	1SD26-R1H2-00C-xxx	1SD26-R1H1-00C-xxx
Flex	Base-Medium	SDR	MDR	1MD26-R560-00C-xxx	1MD26-R5H2-00C-xxx	1MD26-R5H1-00C-xxx

3M Camera Link Boardmount Connectors

Camera Link compatibility across the board

Choose from a greater variety of Camera Link equipment. Expand your design freedom. This selection of MDR and SDR Camera Link boardmount connectors allows for panel and through-hole mounting as well as available lockscrews for a range of board thicknesses. These connectors are ideal for camera or frame grabber board designs and support standard, Mini Camera Link and PoCL applications.



Ordering Information: 3M Camera Link Boardmount Connectors

Mini Camera Link / PoCL Standard (0.8mm pitch SDR connector 14 pin / 26 pin)

Product name	Product number
SMT Shielded Receptacle Connector Right Angle	122xx-82x0 xx
Jack socket Screw	12600-S-xx
Through-Hole Shielded Receptacle Right Angle	122xx-51x0 xx
Through-Hole Shielded Receptacle Straight	122xx-11x0 xx

Standard Camera Link (1.27mm pitch MDR connector 26Pin)

Product name	Product number
SMT Shielded Receptacle Connector Right Angle	10266-1A10 xx
Jack socket Screw	3341-xx
SMT Shielded Receptacle Straight	10226-2210 PE
Through-Hole Shielded Receptacle Right Angle	10226-5212 xx
Through-Hole Shielded Receptacle Straight	10226-6212 xx

Safety Data Sheet: Consult Safety Data Sheet before use.

Regulatory: For regulatory information about this product, contact your 3M representative.

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Electronics Materials Solutions Division
3M Center, Building 223-3S-32
St. Paul, MN 55144-1000
Phone: 1-800-251-8634
www.3M.com/factoryautomation

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