

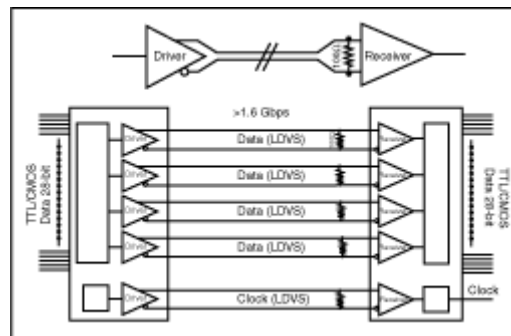


Camera Link is a new digital transmission method designed by vision manufacturers specifically for the machine vision industry. Customers asked for it: an easy way to connect digital cameras to frame grabbers. The solution is Camera Link™.

Camera Link is a cable specification that includes data transmission as well as camera control and asynchronous serial communications all on a single cable. Now, only two connections (power and Camera Link) are required to quickly interface to a multitude of frame grabbers and cameras.

As a standard that has been defined by industry members, Camera Link provides the following benefits:

- **Standard Interface:** Every *Camera Link* product will use the same cable and signaling. Cameras and frame grabbers can easily be interchanged using the same cable.
- **Simple Connection:** Only two connections will be required to interface a camera and frame grabber: Power and Camera Link.
- **Lower Cost:** Because *Camera Link* is an industry-wide standard, consumers will be able to take advantage of lower cable prices.
- **Smaller connectors & cables:** The technology used in Camera Link reduces the number of wires required to transmit data over traditional LVDS or RS-422 parallel interfaces, allowing for smaller cables. Smaller cables are more robust and less prone to breakage.
- **Higher data rates:** The technology used in Camera Link has a maximum data rate of 2.3GB/s, for use in the most demanding high definition, high frame rate and line scan.



(click image to enlarge view)



[\(click for cable specs\)](#)



CABLE ASSEMBLIES

Technical Drawing

14X26-SZLB-XXX-0LC

High Speed Digital Data Transmission System — 26 Position



- CAMERA LINK STANDARD for camera to frame grabber communications
- 11 shielded pairs and four drain wires
- Entire cable bundle is shielded with foil and braid
- Rugged MDR ribbon type contact
- Positive retention thumbscrew shell

PHYSICAL

Connector Contact Plating

Wiping Area: 30 μ " (0.76 μ m) Min. Gold

Shell Options

Color: Parchment/Beige

Material: Overmold Option: Polyvinyl Chloride (PVC)

Shell Kit Option: Polyester Elastomer

Cable

Color: Parchment/Beige

Jacket Material: Polyvinyl Chloride (PVC)

Flammability: AWM VW-1

ELECTRICAL

Voltage Rating: 30 V

Current Rating: 1 A

Insulation Resistance: $> 1 \times 10^8 \Omega$ at 100 Vdc

Withstanding Voltage: 350 Vrms for 1 minute

Individually Shielded

Twisted Pairs

Characteristic Impedance: $100 \pm 10 \Omega$

Conductor Size: 28 AWG Stranded

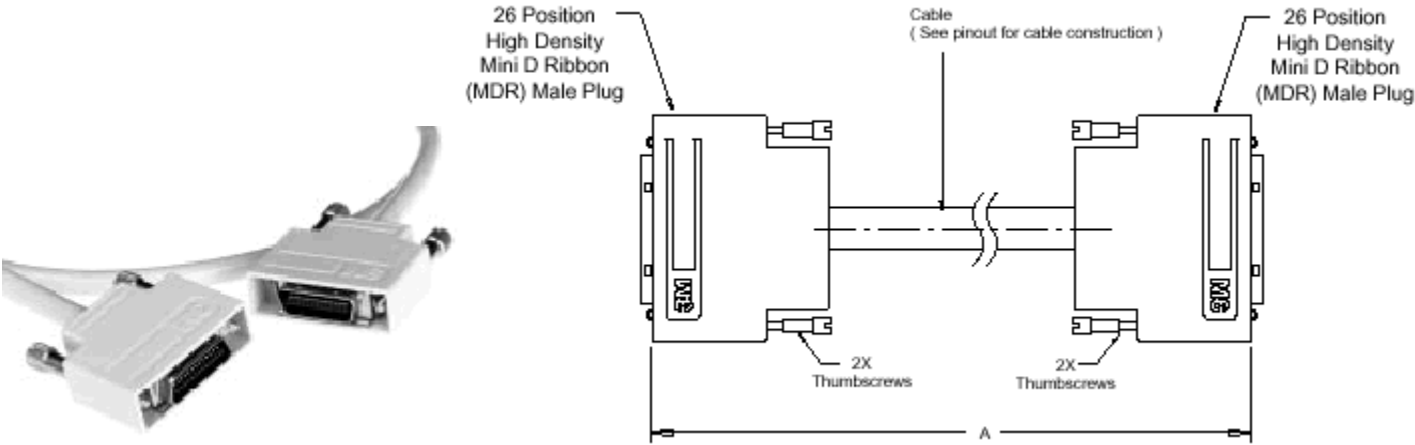
Propagation Velocity: 1.25 ns/ft [4.1 ns/m]

Skew (within pair): 50 ps/meter maximum

Skew (channel skew per chipset): 50 ps/meter maximum

ENVIRONMENTAL

Temperature Rating: -20° to +75°C



CAMERA LINK CABLE (3M)

