



# GORE™ Camera Link® High Flex

FLAT CABLE ASSEMBLIES

## Reliable Flex Life Performance

GORE™ Camera Link® High Flex Flat Cable Assemblies provide motion control and vision systems with reliable interconnects for high performance flex life and signal transmission. These assemblies should be used to avoid bit errors in moving Camera Link® systems. GORE™ Camera Link® High Flex Flat Cable Assemblies provide peace of mind when reliable system performance and equipment uptime are critical.

GORE™ Camera Link® High Flex Cables use quad constructions that are laminated into a flat cable. These assemblies incorporate 26-position 3M MDR connectors to meet Camera Link® electrical requirements as shown below in the Technical Specifications.

GORE™ Camera Link® High Flex Flat Cable Assemblies provide consistent electrical performance over the life of the cable. Chart 1 shows the attenuation of GORE™ Cable compared to an alternative cable. The GORE™ Cable maintains attenuation beyond 5 million flex cycles while the alternative cable degrades quickly at only 100,000 flex cycles. The test was performed at 1 GHz with the alternative cable at a 75 mm bend radius and the GORE™ Cable at a more strenuous bend radius of 47 mm.



### KEY FEATURES

- Cables can be customized for unique requirements
- Flat cable is non-particulating for clean room use
- Incorporates 26-position 3M MDR connectors

### KEY BENEFITS

- Prevents lost data/data integrity problems
- Longer flex life
- Prevents system downtime
- Can be used for 50 mm bend radius

### TECHNICAL SPECIFICATIONS

Test Parameter	Typical Value	Camera Link® Standard	Units
Eye Opening	>40	>40	%
<b>Attenuation</b>			
100 MHz	-0.35	-0.34	dB
1000 MHz	-1.4	-1.4	dB
Interpair Skew	25	50	ps/m
Intrapair Skew	40	50	ps/m
Impedance	100 ±10	100 ±10	ohm
<b>Crosstalk</b>			
NEXT	<0.1	≤4	%
FEXT	<0.1	≤4	%

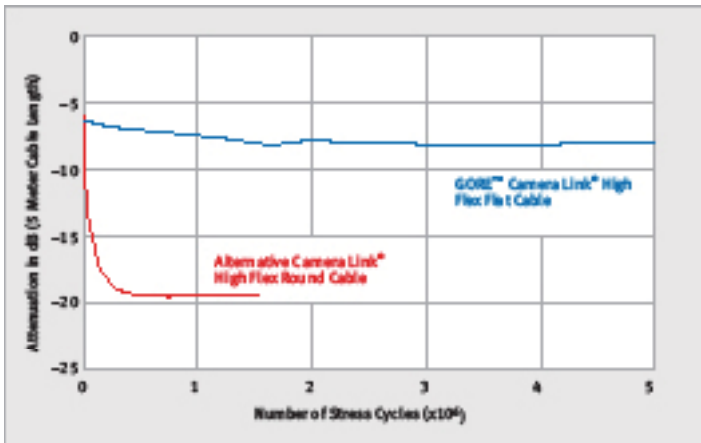


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## CHART 1: ATTENUATION VS FLEX CYCLES

Camera Link® flex life analysis with attenuation at 1 GHz. Alternative Camera Link® on a 75 mm bend radius and GORE™ Camera Link® on a more strenuous 47 mm bend radius.



## GORE™ CABLE HAS A PROVEN TRACK RECORD

GORE™ Cable has a proven track record for endurance in delivering digital signals, analog signals, and power for demanding applications such as vision inspection, robots, pick-and-place or linear motion, material handling or cranes, wafer manufacturing, hand-held industrial tools, medical and pharmaceutical automation, printing or plotting, and storage and warehouse applications.

GORE™ Cable offers superior flex life performance and maximum resistance to severe mechanical and environmental stresses. With 50 years of experience in the wire and cable industry and extensive knowledge of unique materials, Gore provides reliable solutions to your most demanding cable and assembly needs.

The Automated Imaging Association (AIA), as sponsor of the Camera Link committee, owns the U.S. trademark registration for Camera Link.

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