Camera Cable Assemblies for long-distance transmission



These cables support Camera Link, which is one of the machine vision interfaces. Our proprietary cable technology and the use of original connectors* have enabled long-distance data transmission up to 30 meters.

These are high flex cables that can be used at moving parts.

* The maximum transmission distance changes depending on the performance of the camera and grabber board involved. The cable may have to be used in combination with the camera's built-in Pre-Emphasis function if you require the length of 20 meters or longer. Please provide us with

Usage

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

Long-distance interface that supports SDR and MDR connectors

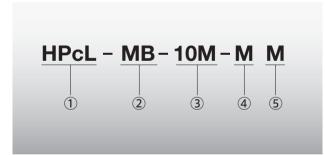
Features

Enabling long-distance data transmission for high bandwidth cameras!!

- This product, when combined with camera's Pre-Emphasis function, enables long distance data transmission of up to 30 meters.
- CL standards: Supporting cameras with the clock rate of 85MHz.
 Supporting full configuration.

- Flexible, high flex cables that can be used at moving parts
- These cables are UL compliant (VW-1).
 These cables are RoHS Directive compliant.

Product nomenclature



- * Please note that these cables are not standardized products for Camera Link.
- * Product specifications are subject to change without notice for improvement.
- * This product has been jointly developed with Nihon I/F K.K.
- * Product names and company names featured are trademarks or registered trademarks of Hirakawa Hewtech and respective companies.

1 Series name	Camera cables for long distance data transmission				
2	MB:28AWG / Base·Medium				
Cable size and	MF:28AWG / Full				
transmission type	LB:26AWG / Base·Medium				
	LF:26AWG / Full				
3 Product length	In meters				
4 Camera-side	M:MDR type				
connector	S:SDR type				
⑤ Grabber-side	M:MDR type				
connector	S:SDR type				

 * SDR Angle type is under development.

Length-based selection criteria (reference)	Assuming the clock rate of 85MHz
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Cable size	10M	15M	20M	25M	30M
M (28AWG)	0	0	0	-	-
L (26AWG)	0	0	0	0	0

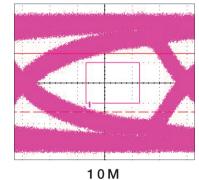


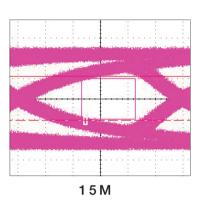
[HPcL series] Patented

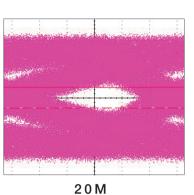
Transmission characteristics << Eye Pattern>>

Input voltage: 700mVp-p, measuring frequency: 595Mbps (assuming the clock rate of 85MHz)

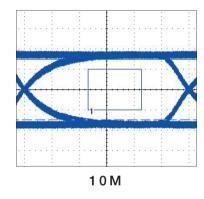
Conventional products

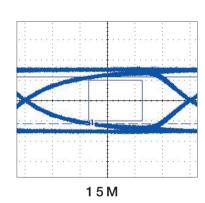


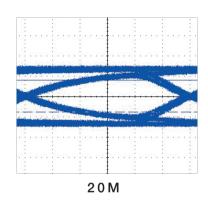




■ HPcL-M series



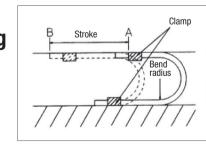




Flex resistance characteristics <<Slide Cableveyor>>

Stroke: 500mm, bend radius: 50mm, speed: 30 times / minute

No disconnection after 6 million bending cycles and still counting





Testing condition

Cableveyor bend tester