



► CEI BitMaxx extended length cables for CameraLink

CEI's exclusive BitMaxx technology uses 'pre-emphasis' and 'equalisation' in order to extend the distance of CameraLink cables.

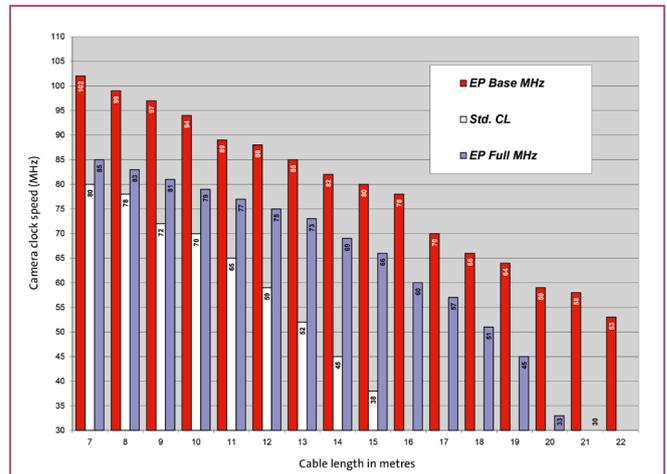
Equalisation is an analogue technique that reverses the low-pass effect of a cable using a high-pass signal filtering to recover and restore the original signal.

Pre-emphasis is a unique technique that opens the eye pattern at the far end of the cable for point-to-point applications. Pre-emphasis adds additional output current during the transition time of the data bit.



► Technical highlights

- Doubles the cable distance
- Extends length at a fraction of the cost of using repeaters
- Uses high flex cable construction
- Offers a compact solution
- Power over CameraLink (PoCL) compatible



► Available models

Ordering codes	Description
Base configuration	
CABLE BITMAXX-EP-B-(XX)-(Y)	MDR both ends
CABLE BITMAXX-EPMC-B-(XX)-(Y)	HDR (camera side) to MDR (FG side)
CABLE BITMAXX-EPMF-B-(XX)-(Y)	HDR (FG side) to MDR (camera side)
CABLE BITMAXX-EPMM-B-(XX)-(Y)	HDR both ends
Full configuration	
CABLE BITMAXX-EP-F-(XX)-(Y)	MDR both ends
CABLE BITMAXX-EPMC-F-(XX)-(Y)	HDR (camera side) to MDR (FG side)
CABLE BITMAXX-EPMF-F-(XX)-(Y)	HDR (FG side) to MDR (camera side)
CABLE BITMAXX-EPMM-F-(XX)-(Y)	HDR both ends

XX and Y refer to the dimensions shown in the diagram right, y normally accounting for 2 m.

The BitMaxx extended length cables are available in two versions, Base and Full. The data rates and length increases are shown for each model.

From this drawing you can easily see the possible length of the different CameraLink BitMaxx system. The Std. CL (white) shows a standard cable solution. The EP Base is the CameraLink Base solution and the EP Full the Full solution.

Please keep in mind that connector type and angle version of connector could reduce the bandwidth. The environmental situation could also influence the possible bandwidth.

