



IEEE 1394 Interface Technology

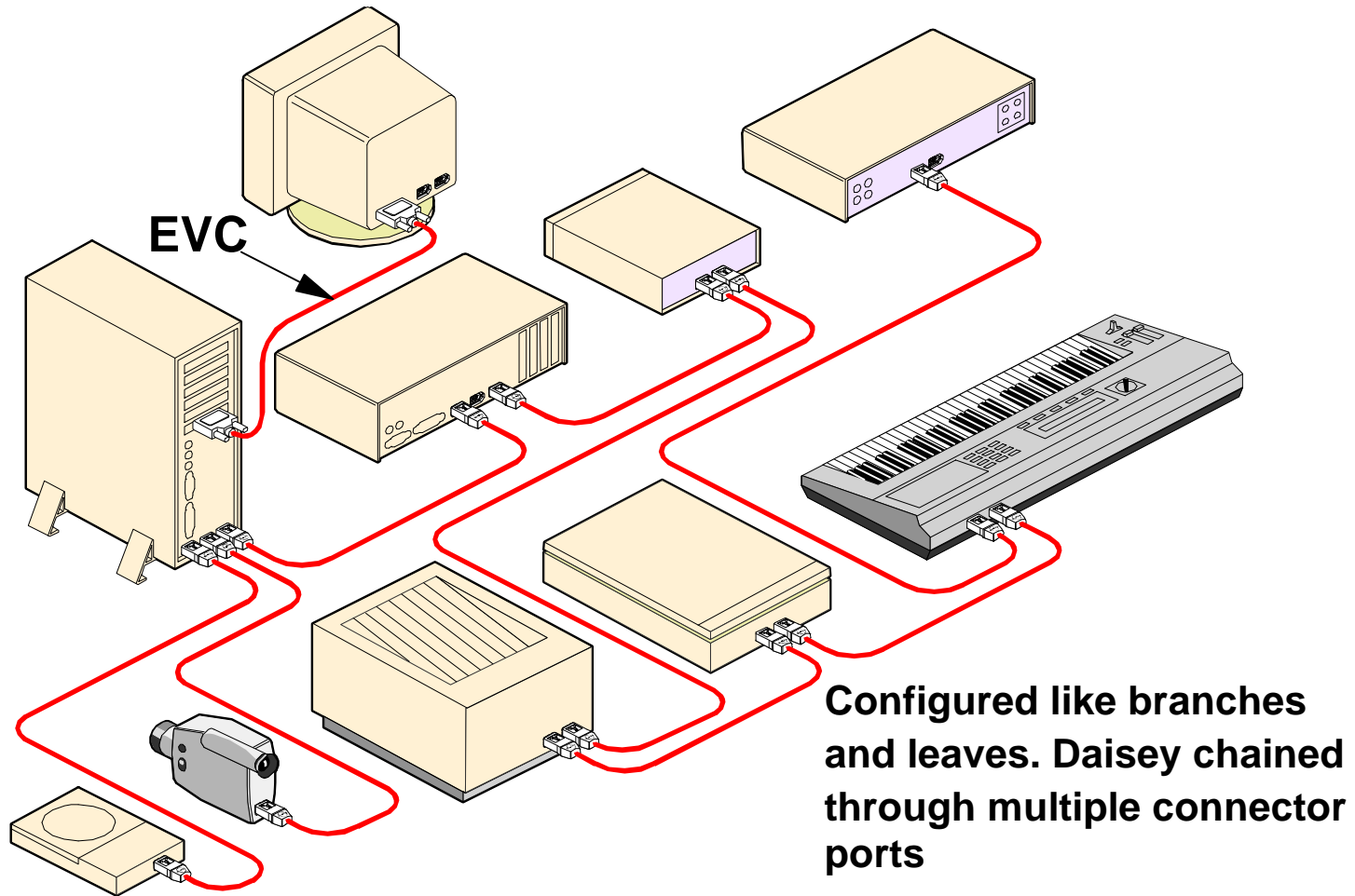
Leaders in 1394 Connectors & Cables

Max Bassler
Corporate I/O Manager

1394-1995 Physical Interface

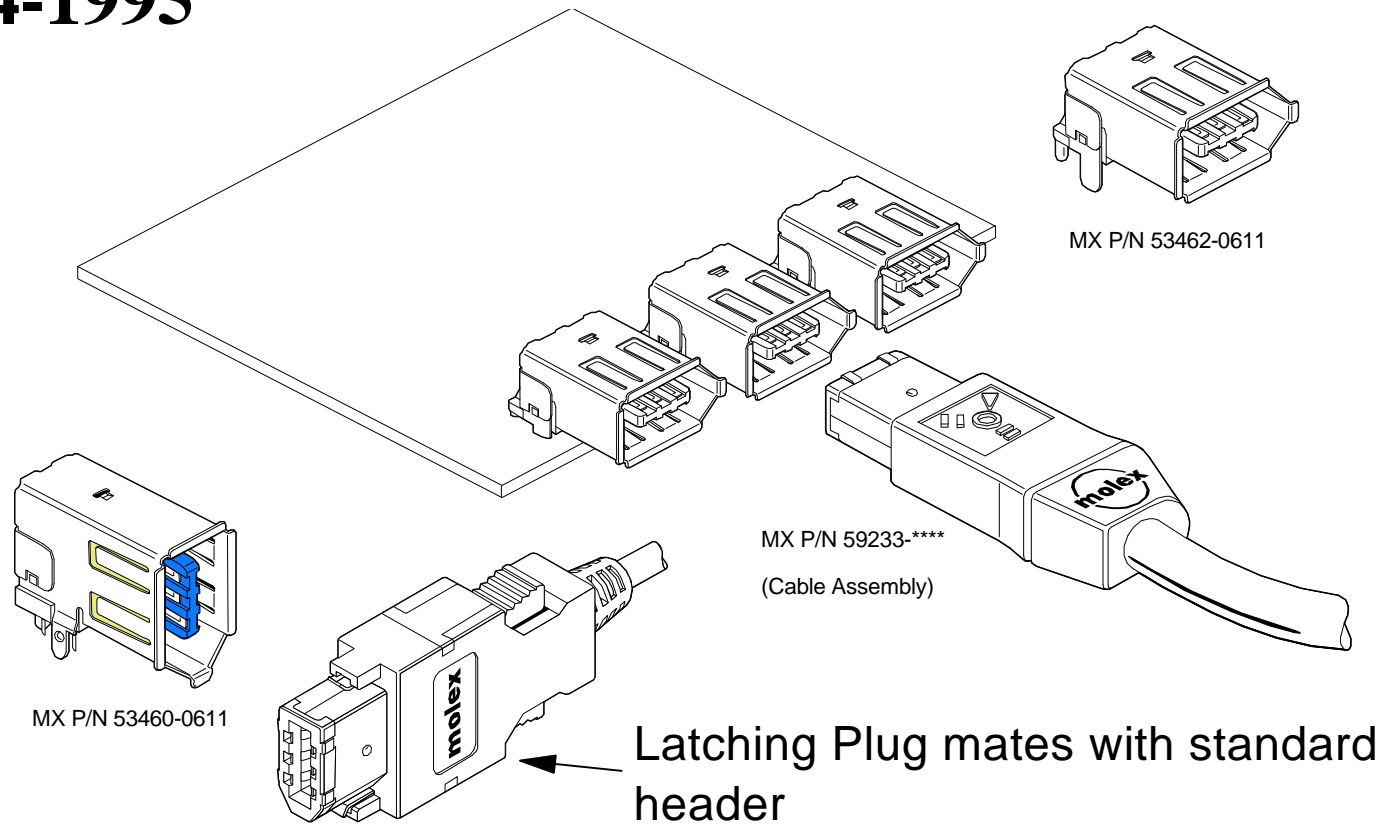
- **First standard to include details on complete connector and cable assembly- Not Just the Interface**
- **The Standard has :**
 - **Various PCB style I/O headers- R/A Flat SMT + R/A Upright Through-hole.**
 - **Multiple PCB layouts**
 - **Internal Device Connectors- B/B + C/B**
 - **Reference Guide for Latching Cables**
- **Work continues in IEEE P1394.n groups for extensions to the original interface.**
- **Molex is the leader of various "Working Groups"**

Topology



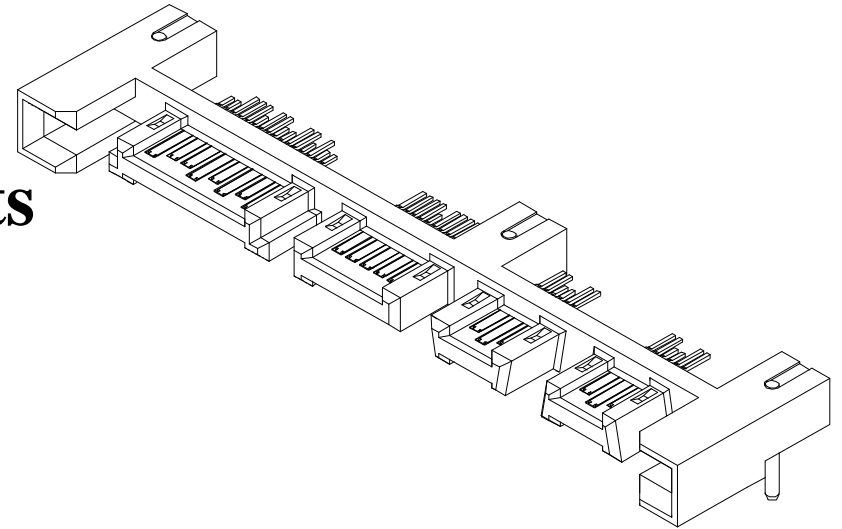
Standard Connectors & Cables

1394-1995



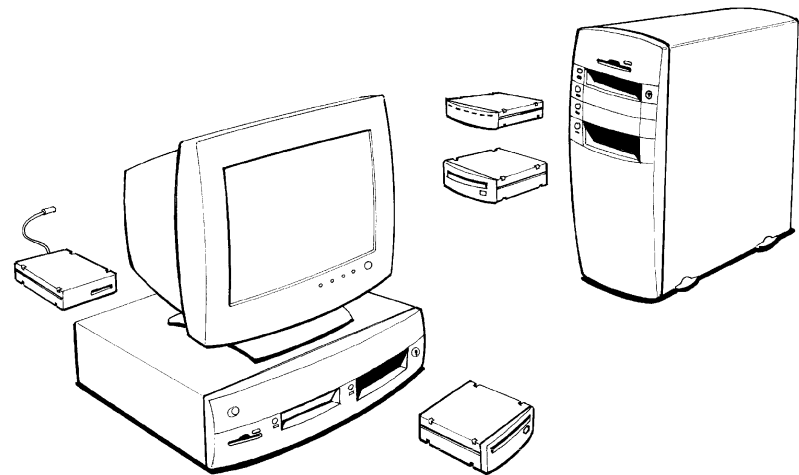
Internal Device 1394-1995

- **Designed for Storage Devices**
- **Contains two 1394 ports**
 - **One option port**
 - **One Power port for 3.3, 5 & 12 VDC**
- **Being proposed for Device Bay**



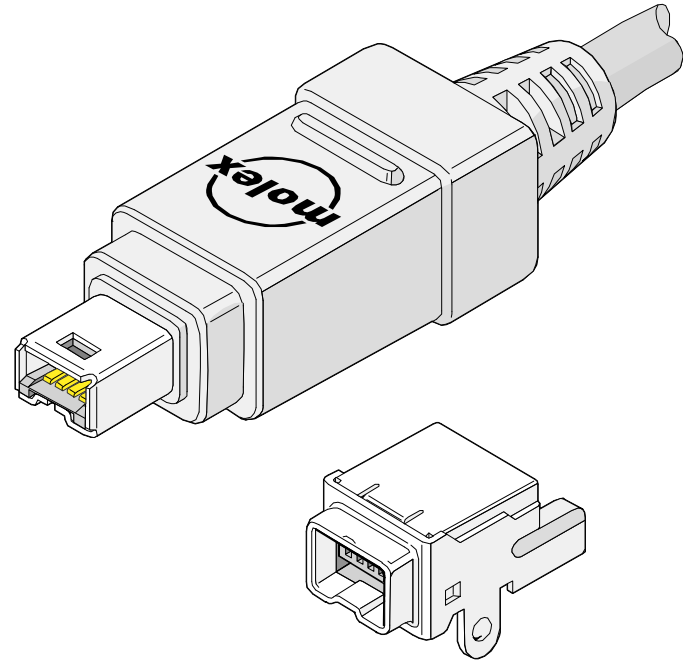
Device Bay

- Means of Upgrading Sealed PCs
- User Friendly
- Variety of Devices
- Standard for all PCs



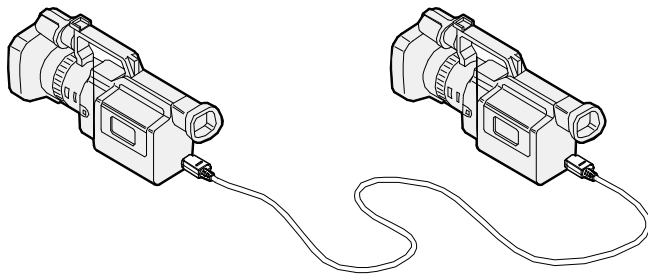
1394 AV Connector & Cables

- **Consumer Model**
- **Small Flexible Cables**
- **Offers Backward Compatibility w/o Cable Power**

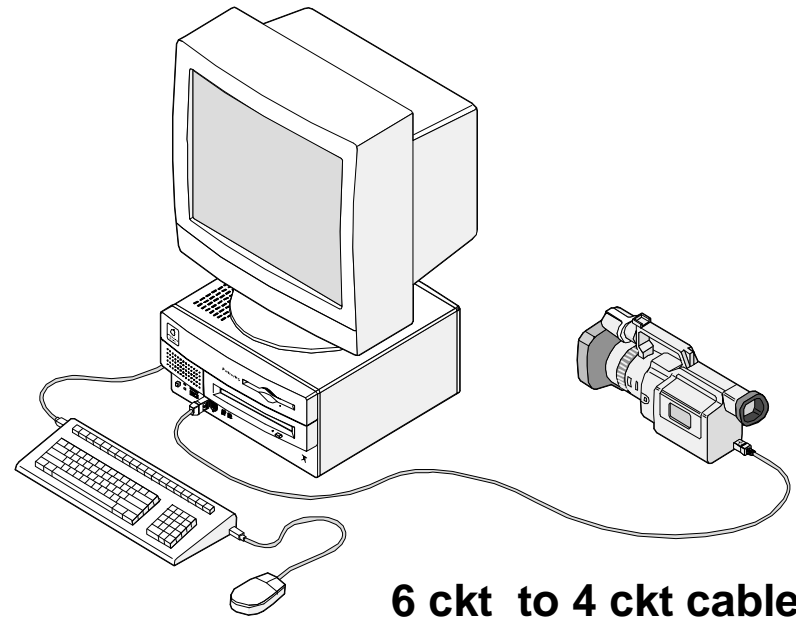


Peer-Peer & Peripheral Link

Digital Camcorder with 1394 AV I/O



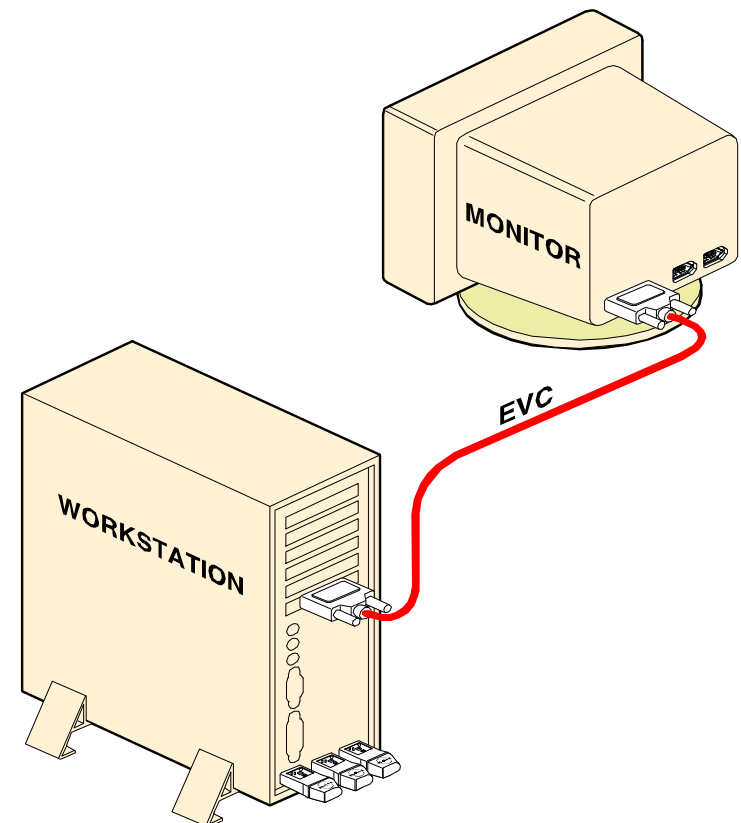
4 ckt to 4 ckt cable



6 ckt to 4 ckt cable

Enabling 1394 Technology

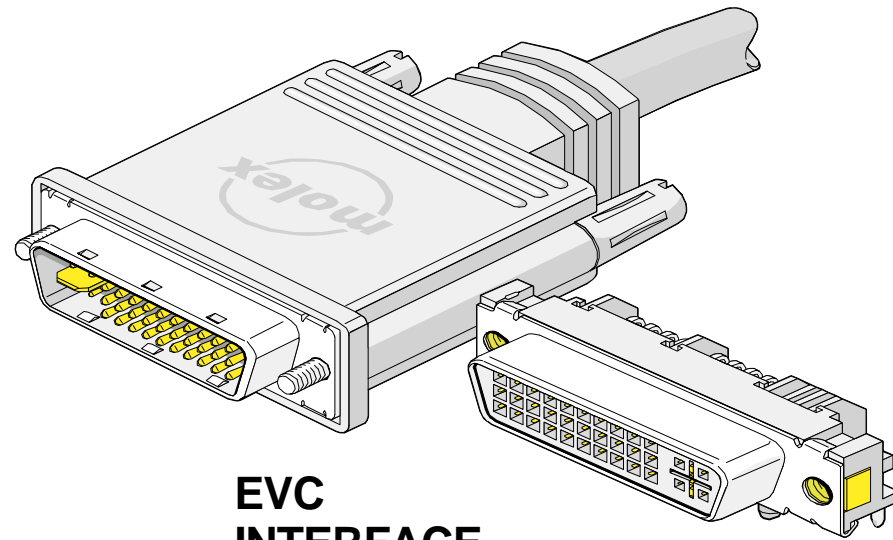
- VESA's "EVC"
Enhanced Video Connector- High Performance
 - Contains 1394/USB signal set from host CPU to monitor
- Enables USB & 1394 functions in the Monitor



Enhanced Video Connector

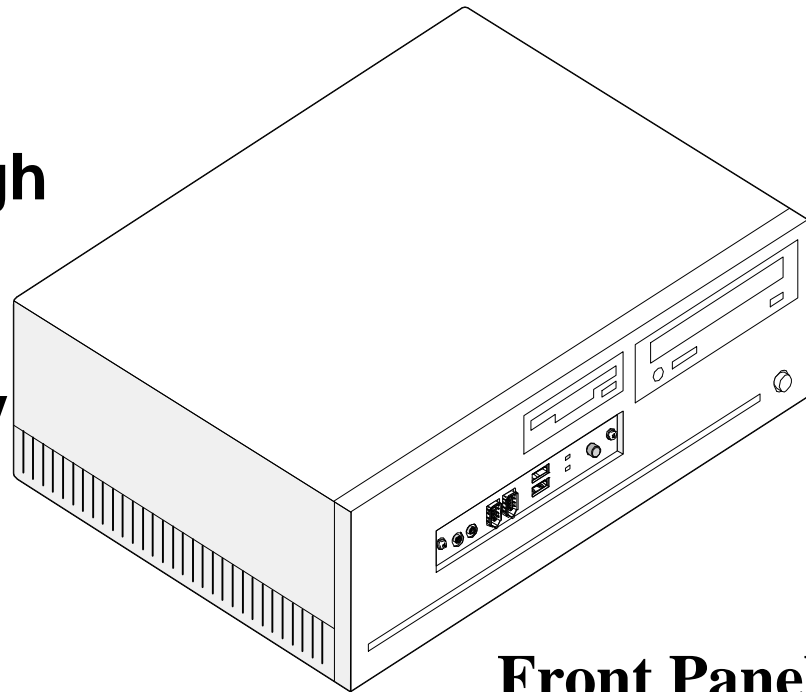
- **High Speed Computer Interface to the Monitor Containing:**

- True RGB
- Analog video
- Analog audio
- Digital audio
- VGA/DDC control
- IEEE 1394-1995
- USB



SIPC / Entertainment PC

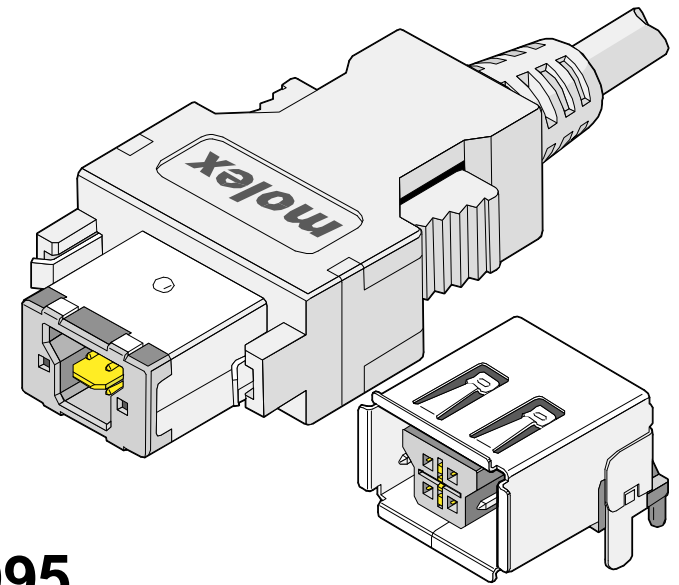
- Sealed Box
- Expansion Through I/Os Only
- Industry Driven by Microsoft & Intel
- Based on NLX Platform



**Front Panel
1394-1995 I/Os**

Gigabit Future for 1394

- **IEEE P1394.B**
 - Networking for PCs + Consumer products
 - Speeds- 800 Mbs, 1.6 Gbs, 3.2 Gbs
 - Storage I/O
 - Extension of IEEE 1394-1995
 - Backward Compatible



**High Speed
I/O Concept
based on
MicroCross**

Molex's Position

- **We Offer the Most Complete Line of 1394 Connector and Cable Products**
- **Leading the Standards and Trade Association for 1394 Technology**
- **Backed with the Experience of the World's Second Largest Interconnection Company**

Global 1394 Network

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Partners in 1394 Technology



IEEE ANSI IEC SFF EIA
and other standards organizations

THANK YOU FOR YOUR TIME

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