

## Attachment No. 5



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1 May 2008

To: Frank Ruffino, (Chairman EIA CE2.0)  
Carl Fritz, (Secretary EIA CE2.0)

From: Jeff Toran, (Deputy Technical Advisor for IEC TC48/SC48B)

RE: IEC Connector standards meetings – Spring 2008 update

### **Connector and test method related items, TC48 and SC/WGs:**

Attendees from the following connector companies – Tyco Electronics, Molex, FCI, Harting, DDK, JST, Nexans, Wago, ADC Krone, and Reichle de-Massari.

1) Preparation of several new or revised Mod Jack standards continues. As higher data rates are achieved for copper cabling, several connector standards and related test method standards are being prepared to distinguish performance levels consistent with ISO/IEC home and office building telecommunications (including data exchange) standards. The status of these 60603-7 series standards is:

- 60603-7 Ed. 3 – will be published 3Q2008
- 60603-7-1 Ed. 1 – will be published in 4Q2008.
- 60603-7-3 Ed. 1 – published in 2008.
- 60603-7-4 Ed. 1 – published in 2006.
- 60603-7-5 Ed. 1 – published in 2007.
- 60603-7-7 Ed. 1 – published in 2005.
- 60603-7-41 Ed. 1 – variant of 60603-7-4; will be published in 2008/09.
- 60603-7-51 Ed. 1 – variant of 60603-7-4; will be published in 2008/09.
- 60603-7-71 Ed. 1 – variant of 60603-7-4; will be published in 2008/09.
  
- Also, 61076-3-110 Ed. 1 which is a variant of 60603-7-7 – published in 4Q2007.

NOTE: a patent issue has been raised regarding the 60603-7-41 & 60603-7-51 standards. At this time it is not known if it will impact the publication of the standards.

Two new 60512 standards for high speed signal measurements for the 60603-7-4, -5 and -7 connectors are being prepared. These will be published late in 2008 or 2009. They will be 60512-26-100 and 60512-27-100.

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- 2) Six industrial Ethernet standards are being prepared to standardize on some common protective housing geometries for the Mod Jack connector when used in industrial environments. These will be published late in 2008.
- 3) Two circular connector standards are being prepared to support the PROFIBUS protocol for industrial equipment communications/data exchange. A third standard was published in 2006.
- 4) The 2<sup>nd</sup> edition of the IEC 61984 “Safety Aspects” standard will be published 4Q2008. This has important electrical safety requirements.
- 5) The ISO/IEC/JTC1/SC25 committee (telecomm cabling committee referenced in (1) above) has requested SC48B to prepare a regarding a ‘hot’ mating/unmating test for *Power over Ethernet* applications. There is a good deal of concern about erosion of the contact surfaces from “hot” mating/unmating. Mr. Yakov Belopolsky (Bell-Stewart Connectors) and Mr. Matthias Gerber (Reichle de-Massari Connectors) coordinated testing to evaluate the degree of erosion that occurs at the voltages requested by the ISO/IEC committee. The report they prepared will be published as an IEC Technical Report later in 2008 (delayed for editorial reasons). Also, a new activity is going to be started (at the request of f ISO/IEC/JTC1/SC25) or a Technical Specification for *Power over Ethernet Plus* applications. Timing to be defined.
- 6) First editions of several IEC 60512-15 and 60512-16 series standards will be published in 2008.

The next scheduled meetings are for the three Working Groups in November 2008.