

## Attachment No. 3



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29 May 2009

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

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

C: Vince Pascucci (Technical Advisor for IEC TC48/SC48B)

RE: IEC SC48B Connector - Working Group standards meetings – Spring 2009 update

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

Attendees from the following connector companies – Tyco Electronics, Molex, Harting, DDK, JST, ADC Krone, and Reichle de-Massari, Siemon Co., 3P Test Labs

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 – Published 3Q2008.
- 60603-7-1 Ed. 1 – Published in 2Q2009
- 60603-7-2 Ed. 2 – Published in 1Q2010
- 60603-7-3 Ed. 1 – published in 2008.
- 60603-7-4 Ed. 1 – published in 2006.
- 60603-7-5 Ed. 2 – will be published 1Q2010
- 60603-7-7 Ed. 3 – will be published 1Q2010
- 60603-7-41 Ed. 1 – variant of 60603-7-4; will be published 1Q2010
- 60603-7-51 Ed. 1 – variant of 60603-7-4; will be published 1Q2010
- 60603-7-71 Ed. 1 – variant of 60603-7-4; will be published 1Q2010/09.

NOTE: a patent issue has been raised regarding the 60603-7-41 & 60603-7-51 standards. This has been resolved and the documents will proceed towards publication.

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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. Publication dates are listed below.

- 61076-3-110 Ed. 1 which is a variant of 60603-7 – published in 4Q2007.
  - 61076-3-113 Ed. 1 which is a variant of 60603-7 – published in 1Q2009.
  - 61076-3-114 Ed. 1 which is a variant of 60603-7 – published in 2Q2009.
  - 61076-3-115 Ed. 1 which is a variant of 60603-7 – published in 3Q2008.
  - 61076-3-116 Ed. 1 which is a variant of 60603-7 – published in 3Q2008.
  - 61076-3-117 Ed. 1 which is a variant of 60603-7 – published in 2Q2009.
- 2) IEC/PAS 61076-2-108 Glass to metal seal variant of 61076-2-101: the PAS document will be published in 2Q2009.
  - 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 was 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 in 1H2010 (delayed for editorial reasons). Also, a new activity is going to be started (at the request of ISO/IEC/JTC1/SC25) for 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 were published in mid-2008.
  - 7) First editions of several IEC 60512-19, 20, 21, and 23 series standards are under preparation and will be published in late 2010.
  - 8) 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 2010. They will be 60512-26-100 and 60512-27-100. The 60512-27-100 document has been delayed to allow redrafting of the standard to align it with a corollary standard published by the TIA organization.
  - 9) A new edition of the IEC Press-in termination standard (IEC 60352-5) is being prepared. Unfortunately most of the changes will be corrections to errors made in reformatting the last edition document.

The next scheduled meetings are for the three Working Groups is September 2009.