



ANSI/EIA-966-2012
Approved: December 07, 2012

EIA STANDARD

Specification for Serial Attachment 3 Gbs 2X Unshielded Connector

EIA-966

December 2012



EIA-966

Document ID: 123456789

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(From Standards Proposal No. 5201, formulated under the cognizance EIA CE-2.0 Committee on National Connector and Socket Standards, and previously published by the SFF Committee as SFF-8482.)

Published by

©ECIA 2012
Engineering Department
2214 Rock Hill Road; Suite 170
Herndon, VA 20170

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CONTENTS

Clause	Page
Foreword	iii
Background	iv
1 Introduction	1
1.1 Scope	1
1.2 Applicable documents	1
1.3 General description	2
1.4 Definitions	4
1.5 Dimensioning requirements	4
2 Printed circuit board layouts	4
3 General tolerances	4
4 Backplane fixed (receptacle) interface features	12
4.1 Blind mating	12
4.2 Mating wipe and device clearances	14
4.3 Hot plugging	14
5 Ratings	16
6 Performance requirements	17
Figure	
1 Device free (plug) connector	2
2 Backplane fixed (receptacle) connector	3
3 Cable fixed (receptacle) connector	3
4 Device free (plug) connector	5
5 Device free (plug) connector	6
6 Backplane fixed (receptacle) connector	7
7 Backplane fixed (receptacle) connector	8
8 Cable fixed (receptacle) connector	9
9 Through hole printed circuit board detail (pressfit & solder pin)	10
10 Surface mount printed circuit board detail	10
11 Hybrid printed circuit board detail	11
12 Blind mate tolerance zones	13
13 Backplane wipe requirements	14

CONTENTS (continued)

Table		Page
1	Hot plug contact sequencing	15
2	Electrical requirements	17
3	Mechanical requirements	18
4	Environmental requirements	19

Foreword

(This Foreword is informative only and is not part of this standard.)

This Specification is from EIA Standards Proposal No. 5201, formulated under the cognizance of EIA CE-2.0, Committee on Connector and Socket Standards. This project was conducted in liaison with the SFF Committee as representing the disk drive industry. Utilization of this Standard is intended to eliminate misunderstandings or confusion between a manufacturer and user with respect to product performance and testing requirements for this as well as other possible applications.

The development work on this specification was done by the SFF Committee, an industry group. The membership of the committee since its formation in August 1990 has included a mix of companies that are leaders across the industry.

Background

(This Background is informative only and is not part of this Specification.)

Abstract: This specification defines an Unshielded Input/Output connector for serial interface unshielded devices, backplanes and cables.

This specification is made available for public review, and written comments are solicited from readers. Comments received by the members will be considered for inclusion in future revisions of this specification.

The description of a connector in this specification does not assure that the specific component is actually available from connector suppliers. If such a connector is supplied it must comply with this specification to achieve interoperability between suppliers.

NOTE - The user's attention is called to the possibility that compliance with this standard may require use of an invention covered by patent rights.

By publication of this standard, no position is taken with respect to the validity of any such claim(s) or of any patent rights in connection therewith. If a patent holder has filed a statement of willingness to grant a license under these rights on reasonable and nondiscriminatory terms and conditions to applicants desiring to obtain such a license, then details may be obtained from the standards developer.

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1. Introduction

1.1 Scope

1.1.1 This specification defines the mechanical and connector contact performance requirements for a composite connector system. This composite system is designed to support high speed serial signals and power on different contacts within the same housing.

1.1.2 Intended applications for this connector system include Serial Attached SCSI (SAS) as specified in the SAS standards and for other applications requiring such a connector system.

1.1.3 The SFF Committee was formed in August, 1990 to broaden the applications for storage devices, and is an ad hoc industry group of companies representing system integrators, peripheral suppliers, and component suppliers.

1.2 Applicable documents

The following documents form a part of this specification to the extent indicated herein. In the event of conflict between this specification and the referenced documents, this specification shall take precedence.

1.2.1 Industry documents

- ASME Y14.5M Dimensioning and Tolerancing
- T10/1562-D Serial Attached SCSI
- EIA-364 Electrical Connector/Socket Test Procedures Including Environmental Classifications (see Table 2, 3 and 4 for relevant test procedures)