

ANSI T1.416.03-1999

# American National Standard



*for Telecommunications –  
Network to Customer Installation Interfaces –  
Synchronous Optical NETWORK (SONET)  
Physical Media Dependent Specification:  
Electrical*

**DEVELOPED BY**  
**STANDARDS COMMITTEE T1 - TELECOMMUNICATIONS**



Committee T1 - Telecommunications

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**THE ALLIANCE FOR TELECOMMUNICATIONS INDUSTRY SOLUTIONS**



**ANSI** American National Standards Institute

11 West 42nd Street  
New York, New York  
10036

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for Telecommunications –

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Secretariat

**Alliance for Telecommunications Industry Solutions**

Approved April 6, 1999

**American National Standards Institute, Inc.**

**Abstract**

This standard establishes physical characteristics and technical criteria for Synchronous Optical NETWORK (SONET) interfaces, at standard rates, associated with the Network Interface (NI) for electrical interface applications. Criteria covered herein include SONET Physical Media Dependent (PMD) criteria (such as electrical parameters and connectors), and other necessary criteria for compliance with the electrical specification at the NI and the proper interfacing of the connecting customer installation equipment. Compliance with this standard is intended to ensure compatibility at the SONET NI and should not be construed as a constraint on the internal operations of the network or customer installation equipment. The provisions of this standard are intended to be consistent with applicable requirements concerning safety and environmental conditions.

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