

A large, stylized graphic of a fiber optic cable bundle, composed of many thin, parallel lines, curves from the top left towards the bottom right, framing the text.

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**Acceptance Requirements for
Optical Fiber, Optical Cable, and
Hybrid Wiring Harness Assemblies**

An international standard developed by IPC

Association Connecting Electronics Industries



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Developed by the Fiber Optic Cable Acceptability Task Group (7-31m) of
the Product Assurance Committee (7-30) of IPC

Users of this publication are encouraged to participate in the
development of future revisions.

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IPC-A-640
Acceptance Requirements for Optical Fiber, Optical Cable
and Hybrid Wiring Harness Assemblies

Appendix A
Space / Military Applications Requirements

Appendix B
Test Methods for the Verification of Optical Fiber
Fabrication Processes

Appendix C
Verification & Validation Matrix

IPC-D-640
Design and Critical Process Requirements for
Optical Fiber, Optical Cable, and Hybrid Wiring
Harness Assemblies

IPC-D-620
Design and Critical Process Requirements for
Cable and Wiring Harnesses

IPC-HDBK-620
Handbook and Guide to IPC-D-620

FOREWORD

This standard provides information on the design and acceptance requirements for optical fiber, optical cable and hybrid wiring harness to the extent that they can be applied to the broad spectrum of optical cable and wiring harness design. It is therefore crucial that decisions concerning the choice of product classification, fiber technology, connectorization requirements, and performance and reliability requirements be made as early as possible.

As optical wiring and connector technology changes, specific requirements will be updated or new requirements added to the document set.

The IPC invites input on the effectiveness of the documentation and encourages User response through completion of "Suggestions for Improvement" forms located at the end of each document.

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Acknowledgment

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