

EIA STANDARD

TP-20F

Dielectric Withstanding Voltage Test Procedure for Electrical Connectors, Sockets and Coaxial Contacts

EIA-364-20F

(Revision of EIA-364-20E)

February 2019



Electronic Components Industry Association

NOTICE

EIA Engineering Standards and Publications are designed to serve the public interest through eliminating misunderstandings between manufacturers and purchasers, facilitating interchangeability and improvement of products, and assisting the purchaser in selecting and obtaining with minimum delay the proper product for his particular need. Existence of such Standards and Publications shall not in any respect preclude any member or nonmember of ECIA from manufacturing or selling products not conforming to such Standards and Publications, nor shall the existence of such Standards and Publications preclude their voluntary use by those other than ECIA members, whether the Standard is to be used either domestically or internationally.

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.

Neither the standards developer nor ANSI is responsible for identifying patents for which a license may be required by an American National Standard or for conducting inquiries into the legal validity or scope of those patents that are brought to their attention.

This standard is based upon the major technical content of International Electrotechnical Commission standard 60512-4-1, voltage proof, 2003-05. It conforms in all essential respects this IEC standard.

This Standard does not purport to address all safety problems associated with its use or all applicable regulatory requirements. It is the responsibility of the user of this Standard to establish appropriate safety and health practices and to determine the applicability of regulatory limitations before its use.

(From Standards Proposal No. 5419, formulated under the cognizance of the CE-2.0 Committee on EIA National Connector and Socket Standards.)

Published by

©Electronic Components Industry Association 2019
EIA Standards & Technology Department
13873 Park Center Road, Suite 315
Herndon, VA 20171

**PLEASE !
DON'T VIOLATE
THE
LAW!**

This document is copyrighted by the ECIA and may not be reproduced without permission.

Organizations may obtain permission to reproduce a limited number of copies through entering into a license agreement. For information, contact:

IHS Markit
15 Inverness Way East
Englewood, CO 80112-5704 or call
USA and Canada (1-877-413-5186), International (303-397-7956)

CONTENTS

Clause	Page
1 Introduction	1
1.1 Scope	1
1.2 Object	1
2 Test resources	1
2.1 Equipment	1
3 Test specimen	2
3.1 Description	2
3.2 Preparation	2
4 Test procedure	2
4.1 Points of application	2
4.1.1 Method A	2
4.1.2 Method B	2
4.1.3 Method C	3
4.1.4 Method D	3
4.2 Barometric pressure	3
4.3 Test voltage	4
4.4 Rate of application	4
4.5 Duration of application	4
4.6 Examination and measurement of specimen	4
5 Details to be specified	5
6 Test documentation	6
Table	Page
1 Test conditions	4
Annex	
A Informative	A-1
B Informative	B-1

(This page left blank)