

Annex

A Test comparison cross-reference EIA-364, IEC-512 and MIL-STD-1344 (informative)

Table A.1 – EIA-364, IEC-512 and MIL-STD-1344 cross-reference

Test	EIA-364 test procedure number	IEC 512 test procedure number	IEC 60512 test procedure number	MIL-STD-1344 test method number
Acceleration	01	6a	06-1	2011
Air leakage	02	14d	14-4	1008
Altitude immersion	03	14e	14-5	1004
Normal force	04	None	None	None
Contact insertion, release and removal force	05	15d	15-4 (P)	2012
Contact resistance	06	2b	02-2	3004
Contact axial concentricity	07	16g	16-7 (P)	2001
Crimp tensile strength	08	16d	16-4 (P)	2003
Durability	09	9a	-	2016
Fluid immersion	10	19c	19-3	1016
Resistance to solvents	11	None	None	None
Restricted entry	12	16b	16-2 (P)	None
Mating and unmating forces	13	13b	13-2	2013
Ozone exposure	14	None	None	1007
Contact strength (bend)	15	16c	16-3 (P)	None
Stripping force (wrapped connectors)	16	16k	16-11	None
Temperature life with or without electrical load	17 (*)	9b	-	1005
Visual	18	1a	01-1	None
Torsional insert retention	19	15c	15-3 (P)	None
Withstanding voltage	20	4a	04-1	3001
Insulation resistance	21	3a	03-1	3003
Simulated life	22	None	None	1015
Low level contact resistance	23	2a	02-1	3002
Maintenance aging	24	9d	-	2002
Probe damage	25	16a	16-1 (P)	2006
Salt spray	26	11f	11-6	1001
Mechanical shock (specified pulse)	27 (*)	6c	06-3	2004
Vibration	28 (*)	6d	06-4	2005
Contact retention	29 (*)	15a	15-1 (P)	2007

Table A.1 – EIA-364, IEC-512 and MIL-STD-1344 cross-reference (continued)

Test	EIA-364 test procedure number	IEC 512 test procedure number	IEC 60512 test procedure number	MIL-STD-1344 test method number
Capacitance	30	22a	-	None
Humidity	31 (*)	11c and 11m	11-3 and 11-12	1002
Thermal shock (temperature cycling)	32 (*)	11d	11-4	1003
Inductance (100 nH - 100mH)	33	None	None	None
Insert retention	35	15b	-	2010
Gas tight characteristics	36	None	None	None
Contact engagement and separation force	37 (*)	13a	13-1	2014
Cable pull-out	38	17c	-	2009
Hydrostatic	39 (*)	None	None	1006
Crush	40	None	None	2008
Cable flexing	41	None	None	2017
Impact	42 (*)	7b	-	2015
Cable clamping (bending moment)	43	17a	-	None
Corona	44 (*)	4b	04-2	None
Firewall flame	45	20b	20-2	1009
Microsecond discontinuity	46	2e	02-5	None
Conductor unwrapping (solderless wrapped connection)	47	16m	16-13 (P)	None
Metallic coating thickness	48	None	None	None
Not assigned	49	-	-	-
Dust (fine sand)	50	11h	11-08	None
Ice resistance	51	None	None	None
Solderability of contact terminations	52 (*)	12a	12-1	None
Nitric acid vapor	53	None	None	1017
Magnetic permeability	54	None	None	3006
Current cycling	55	9e	-	None
Resistance to soldering heat	56 (*)	12d	12-4	None
Temperature life (with mechanical loading for connectors with removable contacts)	58	None	None	None
Low temperature	59	11j	11-10	None
Porosity of contact finishes	60	None	None	None

Table A.1 – EIA-364, IEC-512 and MIL-STD-1344 cross-reference (continued)

Test	EIA-364 test procedure number	IEC 512 test procedure number	IEC 60512 test procedure number	MIL-STD-1344 test method number
Terminal strength	62	16f	16-6 (P)	None
Mixed flowing gas	65	11g	11-7	None
EMI shielding effectiveness	66	23c	23-3	3008
Transmission line reflections (Cancelled)	67	23d	23-4	None
Actuating mechanism	68	8c	-	None
Inductance (10 nH - 100nH)	69	None	None	None
Temperature rise versus current	70	5a and 5b	05-1 and 05-2	None
Solder wicking (wave solder technique)	71	None	None	2019
Hydrolytic effects (Cancelled)	72	None	None	None
IDC reusability	73 (P)	None	None	None
Corona	74 (P)	None	None	None
Lightning strike	75	None	None	None
Toxicity (Cancelled)	76	None	None	None
Solder cup strength	77 (P)	None	None	None
Cavity-to-cavity leakage bonding integrity	78	None	None	None
Insert bond strength	79	None	None	None
Low frequency shield strength	80 (P)	None	None	None
Combustibility characteristics of connector housings	81	None	None	None
Corrosivity of plastics	82	None	None	None
Shell-to-shell and shell-to- bulkhead resistance	83	2f	02-6	3007
Not assigned	84	-	-	-
Wear and mechanical damage of contact finishes	85	None	None	None
Polarizing/coding key overstress	86	13e	13-5	None
Nanosecond event detection	87	None	None	None
Residual magnetism	88	24a	-	None
Space applications of connectors	89	None	None	None
Crosstalk ratio	90	25a	25-1	None
Dust	91	None	None	None

Table A.1 – EIA-364, IEC-512 and MIL-STD-1344 cross-reference (continued)

Test	EIA-364 test procedure number	IEC 512 test procedure number	IEC 60512 test procedure number	MIL-STD-1344 test method number
Wire bending for insulation displacement contacts	92	None	None	None
Repeated wire connection and disconnection for insulation displacement contacts	93	None	None	None
Transverse wire extraction force for insulation displacement contacts	94	None	None	None
Full mating and mating stability	95	None	None	None
Plating through hole integrity	96	None	None	None
Housing panel retention	97	None	None	None
Housing locking mechanism strength	98	None	None	None
Gage location and retention	99	None	None	2018
Marking permeability	100	None	None	None
Attenuation	101	25b	25-2	None
Rise time degradation	102	25c	25-3	None
Propagation delay	103	25d	25-4	None
Flammability	104	None	None	1012
Altitude – low temperature	105	None	None	1011
Standing wave ratio (SWR)	106	None	None	3005
Eye pattern	107	25f	25-6	None
Impedance, reflection coefficient, return loss, and VSWR	108	25e and 25g	25-5 and 25-7	None
Loop inductance measurement (1 nH - 10 nH)	109	None	None	None
Thermal cycling	110	None	None	None
Ionic contamination	111 (P)	None	None	None

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Test	EIA-364 test procedure number	IEC 512 test procedure number	MIL-STD-1344 test method number
Environmental test methodology for assessing the performance of electrical connectors and sockets used in controlled environment applications	1000 (P)	None	None
Environmental test methodology for assessing the performance of electrical connectors and sockets used in controlled environment applications	1000.01	None	None
Test methodology for assessing the performance of compliant contact terminations used as free standing contacts or in electrical connectors and sockets	1002 (P)	None	None
Ball grid array (BGA) and land grid array (LGA) test sequence for electrical connectors and sockets	1003 (P)	None	None
Environmental Test Methodology for Verifying the Current Rating of Free-Standing Power Contacts or Electrical connectors and Sockets	1004 (P)	None	None
NOTES 1 An asterisks (*) indicates that there are known differences between the EIA and IEC test procedures. 2 A (P) indicates that the EIA test procedure has been proposed or is under development.			