



# TEST REPORT

Reference No...... : WTF20F04017543S

Applicant.....: : Mid Ocean Brands B.V.

Address.....: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon,

Hong Kong

Manufacturer .....: 106613

Address.....: : /

Product Name..... : Yoyo with light

Model No. ..... : IT3854

Standards ..... : Electric toys - Safety

IEC 62115:2003+A1:2004+A2:2010

Date of Receipt sample .... : 2020-04-09

Date of Test ...... 2020-04-10 to 2020-04-15

Date of Issue ..... : 2020-04-21

Test Report Form No. ..... : WSO-62115A-02A

Test Result..... : Pass

#### Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

### Prepared By:

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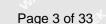
Approved by:

PEPOTÉTY Mu / Mar ager



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Test item description	Yoyo with light
Trade Mark	The war was any and the text
Model/Type reference:	IT3854
Ratings:	2×1.5V LR41 button batteries
Copy of marking plate:	NITE WILLER WILLER WILLER WILLER WILLER WILLER WILLER WILLER
National difference:	TINGE WE TEX STEX STEX STEX STEX WITE WITE WILLS
EU national differences were considered	ed according to below standard:
EN 62115:2005+A2:2011+A11:2012+A	12:2015
a street set set	
in intitle white white white	
Summary of testing:	THE THE LIFE WITH MITTER
The state of the s	the fitter with the top the
These samples are tested and con	nplied with the requirements of standards listed on this report.
2. IT3854 was selected for full test.	if an incite it with the in the
ter wife with with a	
The state of	
- LIFE WILLER WILLE WHILE WHILE	
Mr w	
LIER WEEK WIFE WITE WITE	
11. 14. 12.	



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	V	V		

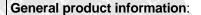
Test item particulars:	
Classification of installation and use	Portable appliance
Supply Connection:	Battery supply
att mat mat mat and and	
Possible test case verdicts:	MITTER WHITE WALL WALL WALL WALL

- test object does not meet the requirement...... F(Fail)

#### General remarks:

"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.

Throughout this report a point is used as the decimal separator.



1. The appliance is toys for children less than 14 years old. The appliance cannot be used by children under 3 years old.





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t JEH	IEC 62115			
Clause	Requirement - Test	Result - Remark	Verdict	
5 11 11	GENERAL CONDITIONS FOR THE TESTS	LIEK ALTER MITER WAL	W. T. C.	
5.2	The tests are carried out on a single sample that withstands all the relevant tests.	est test trest states	- NIEP NI	
EX JIEX	However, the tests of Clauses 14 to 17 may be made on separate samples.	t of the set	P	
- ANLIEK	If the toy does not operate after the tests of Clause 9, the subsequent tests are carried out on a separate sample.	THE TEX WILL AND	N N	
5.3	The tests are carried out in the order of the clauses.	of the the	P	
TEX MUTE	If it is evident from the construction of the toy that a particular test is not applicable, this test is not carried out.	Et lift wifet wifet	WILLEK WA	
5.4 MALTEL	If a toy is intended to be assembled by a child, the requirements apply to each part accessible to the child and to the assembled toy.	Writer Writer Writer	N E N	
MALIEK	If a toy is intended to be assembled by an adult, the requirements apply to the assembled toy.	aliek milek milek ma	IEV PEK	
5.5	The tests are carried out with the toy or any movable part of it placed in the most unfavourable position when the toy is used as intended or in any foreseeable way.	TEX WITER WITER WITE	P NI P	
, me	Battery compartment covers are opened or removed.	White will win.	W <sub>II</sub>	
MULL	Other detachable parts are removed or kept in position, whichever is more unfavourable.	white write white on	N	
5.6	Toys provided with controls or switching devices are tested with these controls or devices adjusted to their most unfavourable setting, if the setting can be altered by the user.	ALL STEE WALTER WALT	N N	
5.7 	Detachable cords supplied with the toy are considered to be part of the toy and are tested with it.	t steet outek ontek s	IN THE TABLE	
5.8	Battery toys intended for use with a battery box are tested	TEX TEX STEX W	TE NET	
-, <u>-</u>	- with the battery box supplied with the toy	m m m	N	
urite uni	- with the battery box recommended in the instructions.	LIET MILE MILE MILE	Inc. N	
TEX WALTE	Transformer toys are tested with the transformer supplied with the toy.	EX MITEX MATER WATER	W ITE N W	
MULTER	If the toy is supplied without a transformer, it is tested with a transformer recommended in the instructions.	MULTER WATER MALTER W	NITE WATE	



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Clause	Requirement - Test	Result - Remark	Verdict
Clause	Requirement - Test	Result - Remark	Verdici
NACTER VI	Dual-supply toys are tested with the most unfavourable supply allowed by the construction, the type of supply being evaluated for each test.	INTER WHITE WHITE	TEX TEX
ek whilek	Rechargeable battery toys that can be operated during charging are tested as dual supply toys because the battery charger is operating as a transformer.	X MILL MULE MULE	A MARIE AND C
5.9	Battery toys are tested using:	at at at	P. P.
111. 1	- new non-rechargeable batteries	MULL MULL MULL	n P
CIER N	- fully charged rechargeable batteries	at alt let	JAK JN
10,	whichever is more unfavourable.	The way of	N
IEK WALTE	The batteries used are those with the voltage and size specified:	EX WILEY WALLEY WAL	IER WITE PUR
t TEX	- on the toy	A A A	- N
m	- in the instructions	White while whi	nn P
NALTEK W	Similar batteries that are generally available are used if this results in more unfavourable conditions.	aliek milek	White White
5.10	When alternative accessories are made available by the manufacturer, the toy is tested with those accessories that give the most unfavourable results.	TEK MUTER MUTER M	ITEK NITN
WILK	If accessories can be used simultaneously, the combination that gives the most unfavourable result is used.	White white whi	ui N
	Toys having lamps used as heating elements that can be removed without the aid of a tool are tested with lamps of the highest power input that can be fitted, irrespective of any marking.	white with white	MITEL MALTER
5.11	The tests are carried out in a draught-free location at an ambient temperature of (20 $\pm$ 5 °C).	THE MAN	TEK NITE P
5.12	Toys having more than one rated voltage are tested at the most unfavourable voltage.	t tex street with	t in let N
LIEK	Toys for a.c. only are tested with a.c. at rated frequency if marked	and an an	N
M A	Those for a.c./d.c. are tested at the most unfavourable frequency.	unti whe who	N N
	If the frequency is not marked, the toy is tested with 50 Hz or 60 Hz as appropriate.	Life White white W	N N
5.13	Battery toys are also tested with the polarity reversed unless such connections are prevented by the construction.	ex writer white whi	yn Pur
5.14	Batteries are correctly positioned before evaluating the possibility of bridging insulation and before carrying out the short-circuit tests.	mile mile me	P



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t JEK	EC 62115			
Clause	Requirement - Test	Result - Remark	Verdict	
NALIEK W	Only one short circuit is applied at a time.	LIER NITER MITER	JALI JALIP	
LIEKWIL	Damage caused by a short circuit that does not impair compliance with this standard is repaired before a further short circuit is applied.	TEX WHITEK WHITEK W	LIEK VALLEN	
5.15	Before starting the tests, the toy is preconditioned by subjecting it to the tests of the following subclauses of ISO 8124-1, the batteries being in position:	MULTER WALTER WALT	H WALES	
THE T	<ul> <li>5.12.5 Overload test, for sit-on toys or stand-on toys;</li> </ul>	mi mi m	AN N	
unl wh	<ul> <li>5.24.2 Drop test, for toys having a mass less than 4,5 kg, including batteries, irrespective of the age group;</li> </ul>	THE MALL WILL A	AL WELL	
t Tex	<ul> <li>5.24.4 Dynamic strength test, for wheeled ride-on toys;</li> </ul>	MUT AND AND	h Tet Te	
71/2	- 5.24.6.1 Tension test, for all toys;	Write Write Will	W P	
WALTER W	<ul> <li>5.24.6.2 Tension test for seams, for toys having textile or other flexible materials covering batteries or other electrical parts.</li> </ul>	MITER WALTER WALTER	unite unit	
6 mi	CRITERIA FOR REDUCED TESTING	TEX TEX STEEL OF	LIE UNLIE W	
iek waite	For some toys, it is not necessary to carry out all the tests specified in this standard if the conditions of 6.1 or 6.2 are met.	A WILL MATER MATE	EX UNITER P	
TEX	The exemptions of:	L A A	P.O	
m.	6.1 are applicable to all toys	Write White Whi	7/L 1/b	
TEK	6.2 are only applicable to battery toys.	the state of the	P	
6.1	Toys that comply with the tests of Clause 9 with the insulation between parts of different polarity short-circuited are considered to comply with Clauses 10 to 12, 15 and 18.	or the winds	THE WILLIAM MI	
ek white	The short circuit is applied at all places in turn where the insulation is liable to breakdown and can be carried out using a flexible wire.	Whitek whitek white	MI PALI	
6.2	Battery toys are considered to comply with Clauses 10, 11 (except 11.1), 12, 15, 17 (except 17.1 for battery compartments intended to contain button cell batteries), 18 and 19 if	White white white	nnt wn	
TEK WALTE	- the accessible insulation between parts of different polarity, except those in battery compartments, cannot be bridged by a straight steel pin having a diameter of 0,5 mm and any suitable length over 25 mm, and	Et whitet whitet whi	EK WATE WATE	



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	IEC 62115		
Clause	Requirement - Test	Result - Remark	Verdict
untick w	– the total battery voltage does not exceed 2,5 V, measured 1 s after a $1\Omega$ resistor has been connected between the supply terminals of the toy, with any current limiting device short-circuited and without the toy being operated.	inties unties unties un	IN N
7	MARKING AND INSTRUCTIONS	ex lifex outer out	Rn'
7.1	Toys or their packaging are marked with:	2/1, 2/2, 2,	Р
MULLI	the name, trade mark or identification mark of the manufacturer or responsible vendor:	See page 2.	MUTI MA
CLIER IN	- the model or type reference:	See page 2.	NITER NIP
ret life	When the toy is marked, these markings are on the main part.	it was any a	N
MUTIEN	When the packaging is not marked and when it is not practical to mark the toy, e.g. due to its size, the markings of 7.1.1 to 7.1.3 may be contained in the instructions instead.	Whitek Multer Multe	while while
7.1.1	Battery toys with replaceable batteries are marked with:	WITER WHITER WHITER	WALTE WA PER
NITEK WAL	<ul> <li>the nominal battery voltage, in or on the battery compartment (V)</li> </ul>	TEK ONTEK MITEK	LIEK WILLE
et et	- the symbol for d.c., if the toy has a battery box	, L , L	at at N
MULLER	If more than one battery is used, the battery compartment is marked with the shape of the batteries in proportional size, together with their nominal voltage and polarity.	Multin White whitek	WALT WALTE
7.1.2	Transformer toys are marked with:		N*
n n	- their rated voltage, (V):	WIT THE MALL A	n. m.
TEX JI	- the symbol for a.c. or d.c., as applicable;:	it is the	TEX LIEK
*	- their rated power input, if greater than 25 W or 25 VA in	m in m	N N
MUL	– watts (W):	A MITTER WALTER WALL	mi, au
TEX	- volt-amperes (VA):	at at at	18 JE
in in	- the symbol for transformer for toys.	Write Mrite Mill	N
ALTEK (AL	This symbol is also marked on the packaging	et let let	JET JN
ek Je	The marking of rated voltage and the symbol for a.c. or d.c. is placed adjacent to the terminals.	T St Et	N
t mitex	The marking for a.c. or d.c. is not required if the incorrect supply does not impair compliance with this standard.	tet itet site	W NW
7.1.3	Dual-supply toys are be marked with the marking required for both battery toys and transformer toys.	Mr. Mr. M	N N



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012		Death Death	1 VAL:
Clause	Requirement - Test	Result - Remark	Verdic
7.2	The identification for detachable lamps is be marked with	INLIER WHITE WHITE'S W	UN
ITE. WILL	- the rated voltage (V):	TEX TEX STER OUT	C NITE
L A	- type number:	711 211 22	<i>*</i> -
MALTE	- the maximum power input (W):	* LIEY NITER WITE	11/2 1/10
at-	- the maximum current. (A):	20 20 T	/+ - /
white a	The marking for power input or current of detachable lamps is as follows:	MILLER WALLER WHILE	INCT VIN
LIE NA	lamp max (W)	TEK ITEK LITEK W	ITER MITE
	lamp max (A)	F My My M	
WALT	The word "lamp" may be replaced by symbol 5012 of IEC 60417-1.	EK WHILEK MULLER MULLE	IN IT N
LIER	The marking is visible when replacing the lamp.	EX TEX TEX	N.
Writek M	This marking is not required if the temperature rises measured during the tests of Clause 9 do not exceed the limits when a lamp having the highest power input is fitted.	While Murifex whitex	N NLIE WILLES
7.3	When symbols are used, they are as follows:	CENT TENT LIENT OF	EL P
EK NITEK	Symbol 5031 of IEC 60417-1.	of the text of	L N
NLTEX	Symbol 5032 of IEC 60417-1.	All the All All	N N
NITEK UN	Symbol 5012 of IEC 60417-1.	The State Autility And	THE WITTER
TE WALL	Symbol 5219 of IEC 60417-1.	t tet tet tet	N S
NITEK .	Units of physical quantities and their symbols are those of the international standardized system.	et let let	P
7.4	Instructions are provided that give details concerning cleaning and maintenance when necessary for the safe operation of the toy.	and united anited an	TEK WITE
WALTEX WALTEX	They state that transformers or battery chargers used with the toy are to be regularly examined for damage to the cord, plug, enclosure and other parts, and in the event of such damage, they must not be used until the damage has been repaired.	EX WILEX WHILE WHILE  OLIEN WILEX	MALLER WALL
it.	Toys are provided with instructions for assembly if	24 24	P
all as	- they are intended to be assembled by a child;	THE LIFE ALTER A	N

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210		D W D W	1 1/V II
Clause	Requirement - Test	Result - Remark	Verdic
inriege An	these instructions are necessary for safe operation of the toy.	INLIER WALTER WALTER	n' P
ITE WALT	If the toy is intended to be assembled by an adult, this is stated.	TEX WALLEY WALTER WAL	P
WALTER WITER	The instructions for transformer toys and toys with battery boxes are stated that the toy is not to be connected to more than the recommended number of power supplies.	H WITER WITER WITER	WITE MALE
VILLER AND	The instructions for dual supply toys include the instructions required for both battery toys and transformer toys.	with white willer wi	ILITEK MITTER
EX WALTE	Toys having wires without connecting means are provided with instructions that state that the wires are not to be inserted into socket-outlets.	EX WHITEK WHITEK WHI	EK WITEN
WALTER	The instructions for battery toys with replaceable batteries contain the substance of the following, as applicable:	Whitek Whitek Whitek	WALL SHALL
NOTE OF	- the types of batteries that may be used;	LIEK RUE MULE	mui mP
at a	- how to remove and insert the batteries;		, P
in whi	<ul> <li>non-rechargeable batteries are not to be recharged;</li> </ul>	LIER WALTER WALTER WA	√ N ×
MULT	rechargeable batteries are only to be charged under adult supervision	H WALTER WALTER WALTE	N. N.
White.	<ul> <li>for toys supplied with a battery charger for use by children, this instruction may be replaced by: 'Batteries are only to be charged by adults or by children at least 8 years old'</li> </ul>	WALTER WALTER	WALT WALTER
IEX LI	<ul> <li>rechargeable batteries are to be removed from the toy before being charged;</li> </ul>	C A TEL S	EK TEN
- TEX	different types of batteries or new and used batteries are not to be mixed;	IN THE THE	P
MU	<ul> <li>batteries are to be inserted with the correct polarity;</li> </ul>	White Mais must	Mr. P
Murit. A	<ul> <li>exhausted batteries are to be removed from the toy;</li> </ul>	MALIER WALTER WALTE	IN NP
LIE MI	- the supply terminals are not to be short-circuited.	TEX SITEX OUTER SU	JI JIL P
ex nite	The instructions for transformer toys contain the substance of the following, as applicable:	et let let li	N TENN
TEX	<ul> <li>the toy is not intended for children under 3 years old;</li> </ul>	THE THE THE	N
M	<ul> <li>the toy must only be used with the recommended transformer;</li> </ul>	MULL MULL MULL	W N
וער, יאו	- the transformer is not a toy;	THE STIP WITE	LL MIN



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Clause	Requirement - Test	Result - Remark	Verdict
	All the still all the wall will be		.t .tt
	toys liable to be cleaned with liquids are to be disconnected from the transformer before cleaning.		MN
LIE WALT	The instructions are on:	ex liex oliex onlie	P
+ .x	- a leaflet	201 201 2	Р
WALT	- on the packaging	LIER OLIER MITE	W. Nur
et.	- on the toy.	Mr. Tr.	N
Murry 1	- If the instructions are marked on the toy, they are visible from the outside	WILL MULLE MULL M	N
INLTE WA	- if the toy consists of more than one part, only the main part needs to be marked.	TEX WALTER WALTER WALT	N
TE WALTE	Instructions for battery toys intended to be used in water state that the toy is to be operated in water only when fully assembled in accordance with the instructions.	ANTIER WHITER WHITER	N <sub>u</sub> r
7.5	When markings or instructions are on the packaging, it is also stated that the packaging must be retained since it contains important information.	Why whitek whitek and	TE PARTIES
7.6	Instructions and other texts required by this standard are written in the official language of the country in which the toy is to be sold.	EX WALTEX WALTER WALTE	JALT P
7.7	The markings on the toy are legible and durable.	TEX LIEX WIFE	IN PIN
8	POWER INPUT	me m m	L - 7
WALTE	The power input of transformer toys and dual supply toys do not exceed the rated power input by more than 20 %.	see appended Table 8	N N
LIEK MIT	Compliance is checked by measurement when the power input has stabilized and the toy has attained normal operating temperature with	TEK TIFE	WIN N
et ster	all circuits that can operate simultaneously being in operation;	Mr Mr M	N N
20	- the toy being supplied at rated voltage;	MUT, AUT, AUT,	N
CLIER	- the toy being operated under normal operation.	LEK TEK JEK N	NE NE
9	HEATING AND ABNORMAL OPERATION	Vr. Mr. Mr. Mr. Mr.	7 -7
9.1	Toys do not attain excessive temperatures in use.	ex ifex lifex out	nt P
iek waite	They are constructed so that the risk of fire, mechanical damage impairing safety or other hazards, as a result of careless use or failure of a component, is obviated as far as is practicable.	MUNITER MULTER MULTER	P
WILLE	Toys are subjected to the tests of 9.3 to 9.8 under the conditions specified in 9.2.	MULTER MULTER MULTER W	P
JEE .	All toys are subjected to the tests of 9.3 to 9.5.	at at at	P



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Clause	Requirement - Test	Result - Remark	Verdic
.c.t	TER STEE STEE WITH THE TOTAL THE		
War. An	Toys incorporating motors are subjected to the test of 9.6.	WILL MULLE MULLE	unii unii
LIE WALT	Transformer toys, dual supply toys and toys with battery boxes are subjected to the test of 9.7.	TEX WHITEK WHITEK W	LITE N S
WALTER	Toys incorporating electronic circuits are subjected to the test of 9.8.	* Writek Writek Write	et white Nai
Whitek v	Toys that only incorporate incandescent lamps having a rated power input not exceeding 1 W are not subjected to the tests.	Whitek Whitek Whitek	white Mr
Willer My	Unless otherwise specified, compliance with the tests of this clause is checked as described in 9.9.	TIER MILER MULLER O	MITEL MILE
iek white	The tests of 9.3 and 9.4 are continued until steady conditions are established.	EX NIFEX MALIER WAY	TEK WITE P
MALIEX	During these tests, thermal cut-outs do not operate.	aliex writex white	t with whi
WUTEK W	However, during temperature rise tests of 9.3 and 9.4 on mobile toys such as radio controlled vehicles, self-resetting thermal cut outs are allowed to operate.	unifek whitek whitek	WHITE WALLEY
er we	The tests of 9.5 to 9.8 are continued until a non- self-resetting thermal cut-out operates or until steady conditions are established.	iter write write w	Et SIEK W
WALTER	If a heating element or an intentionally weak part becomes permanently open-circuited, the relevant test is repeated on a second sample.	While with while	N N
INLIEK W	This second test is terminated in the same mode unless the test is otherwise satisfactorily completed.	TE WITE	united NX
9.2	Toys are placed in the most unfavourable position that can occur during play.	TEK WY	ITEK WILLEP
t TEX	Hand-held toys are freely suspended.	1 1 2 2	+ P
WITEK	Other toys are placed on the floor of a test corner as near to the walls as possible or away from the walls, whichever is more unfavourable.	White white whi	N N
LIEK N	Toys having dimensions not exceeding 500 mm are completely covered with the cotton gauze.	an who when	ITEX ITEM
1111	Battery toys are supplied at rated voltage.	TI MUT MUT A	Р
EX WALTE	Transformer toys and dual supply toys are supplied at 0,94 times or 1,06 times rated voltage, whichever is more unfavourable.	EX WHITEX WHITEX WHI	TEN OF N
White w	The temperature rises are determined by means of fine-wire thermocouples positioned so that they have minimum effect on the temperature of the part under test.	WHITE WHITE WHITE	uni P

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Clause	Requirement - Test	Result - Remark	Verdict
- Clades	The state of the s	Troodic Tromain	at let
nari mar	Where thermocouples cannot successfully measure the maximum temperature during the test, thermal paper or other methods to measure temperature rise may be used.	Inter white white white	SUP N
et 18th	Used measurement method:	fine-wire thermocouples	P
wr.	Mobile toys are tested in whichever use condition will create the highest temperature rise.	Multip Whit whi A	N
White a	When non-self-resetting thermal cut-outs operate, they are re-set a maximum of three times.	WHITER WHITER WHITE WA	N
INLIER WY	Toys with self-resetting thermal cut-outs are tested until steady state conditions are established.	LIEX WHITEK WHITEK WHITE	an'N
9.3	Toys are operated under normal operation and the temperature rises of the various parts are determined.	See appended Table 9.3	WITE P
WALL	Rechargeable battery toys that can operate during recharging are also tested in the charging mode.	White white white w	N
9.4	The test of 9.3 is repeated, the insulation between parts of different polarity, except those in battery compartments, being short circuited in turn if it is accessible after the removal of detachable parts, except lamps.	See appended Table 9.4	N N
EK WALTE	However, the short circuit is only applied if it is possible to bridge the insulation by a straight steel pin	youres walter water	in the N
NUTEX NO	For products that have to be kept switched on by hand or foot, if the applied short-circuit results in the product not functioning, the switch is released after 30 s.	white white white wh	N N
9.5	The test of 9.3 is repeated, any control that limits the temperature during the tests of 9.3 and 9.4 being short-circuited.	See appended Table 9.5	W STIEN
WILLER	If the toy has more than one control, they are short-circuited in turn.	t intest unitest unitest is	N. C.
WWITEK WAT	If the control consists only of positive temperature co-efficient resistors (PTCs), negative temperature co-efficient resistors (NTCs) or voltage dependent resistors (VDRs) they are not short-circuited if they are used within their manufacturers declared specification.	MULTER MULTER MULTER MULTER	SE NES
te whitek	For products that have to be kept switched on by hand or foot, if the applied short-circuit results in the product not functioning, the switch is released after 30 s.	EX WHITEX WHITE WHITE	on the North
9.6	The test of 9.3 is repeated with accessible moving parts locked.	See appended Table 9.6	N. t



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010	IEC 62115		1,000
Clause	Requirement - Test	Result - Remark	Verdict
Write M	The test is terminated after 30 s if the toy has to be kept switched on by hand or foot.	INLIER WHITE WHILE WHILE	WN.
9.7 mil	Transformer toys, dual supply toys and toys with battery boxes are connected to a power supply in addition to that recommended in the instructions for use.	TEK WHITEK WHITEK WHITEK	o ni N
MULTER	The additional power supply is identical to that recommended for the toy and is connected in series or in parallel, whichever is more unfavourable.	antifek antifek antifek anti	N
Wr. AV.	The toy is then tested as specified in 9.3 and 9.4.	LIER WILL WALL	N N
9.8	Compliance for electronic circuits is checked by evaluation of the fault conditions specified in 9.8.2 for all circuits or parts of circuits, unless they comply with the conditions specified in 9.8.1.	EX WHITEK WHITEK	N CON
whitex w	If a conductor of a printed-circuit board becomes open-circuited, the toy is considered to have withstood the particular test, provided that the following two conditions are met:	White Miles Maries whi	N
LIEK WAL	<ul> <li>the material of the printed-circuit board withstands the needle-flame test of Annex B;</li> </ul>	TEX MITER WAITER WALTER	JALL N
EX WALLEY	<ul> <li>the toy withstands the test of 9.8.2 with the open- circuited conductor bridged.</li> </ul>	of the state wifet	P SEL N
9.8.1	Fault conditions a) to f) specified in 9.8.2 are not applied to circuits or parts of circuits where both of the following conditions are met:	witek whitek whitek wh	TY WILL
INLIEK WY	the electronic circuit is a low-power circuit as described below;	THE MITTER WALTER	+ NX
IFEX WALT	the protection against fire hazard or dangerous malfunction in other parts of the toy does not rely on the correct functioning of the electronic circuit.	TEK MITEK	NUTEN
9.8.2	The following fault conditions are considered and, if necessary, applied one at a time, consequential faults being taken into consideration:	See appended Table 9.8.2	N
Waris A	a) short circuit of clearances and creepage distances between parts of different polarity, if these distances are less than the values specified in Clause 18, unless the relevant part is adequately encapsulated;	uniter white white white	JUN JUNITER
E WALL	b) open circuit at the terminals of any component;	ex tex atternation	u Nu
Whitek.	c) short circuit of capacitors, unless they comply with IEC 60384-14 or they are ceramic capacitors used within the manufacturer's specification;	INLIET WHILET WHILET	S N WILL
UNLIEK NI	d) short circuit of any two terminals of an electronic component, other than integrated circuits;	TEX ITEX STEX OUT	N



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Clause	Poquirement Test	Result - Remark	Verdic
Clause	Requirement - Test	Result - Remark	verdic
incies on	e) failure of triacs in the diode mode;	ALTER MITER WALTER	MN
LIEK WALTER	f) failure of an integrated circuit. In this case the possible hazardous situations of the toy are assessed to ensure that safety does not rely on the correct functioning of such a component. All possible output signals are considered under fault conditions within the integrated circuit. If it can be shown that a particular output signal is unlikely to occur, then the relevant fault is not considered.	TEK WALTER WALTER WALTER	ALTEN VIAL
ULIEK MU	In addition, each low-power circuit is short-circuited by connecting the low-power point to the pole of the supply from which the measurements were made.	RITER WHITEK WHITEK	N-
ying. Latex	For simulation of the fault conditions, the toy is operated under the conditions specified in 9.2 but supplied at rated voltage.	EX TEX LIEX AL	Noti
wy my	For products that have to be kept switched on by hand or foot, if the applied fault-condition results in the product not functioning, the switch is released after 30 s	unties whites whites whites	N white
	If the toy incorporates an electronic circuit that operates to ensure compliance with 9.5 to 9.7, the relevant test is repeated with a single fault simulated, as indicated in a) to f) above.	ETEK WHITEK WHITEK WHITEK	ini N
WALTER	Fault condition f) is applied to encapsulated and similar components if the circuit cannot be assessed by other methods.	Whitek whitek whitek white	N N
VILLEK MU	PTC resistors are not short-circuited if they are used within the manufacturer's specification.	TE NITER MILIER	W.N.X
TEX MLT	PTC-S thermistors are short-circuited unless they comply with IEC 60738-1.	TEX STEE	LIEN
9.9	During the tests, the temperature rises of accessible parts are monitored continuously.	See appended Tables 9.3 - 9.6	P
NALTEX N	The temperature rise of the surface of handles, knobs and other parts that are likely to be touched by hand do not exceed the following values:	WILL WALL WILEY WILE	P
at .	– 25 K, for parts of metal;	My My A	N-
ri Mu	- 30 K, for parts of glass or porcelain;	LIER WILL WILL MULE	N N
* 18	- 35 K, for parts of plastic or wood.	in the set	P
wi	The temperature rise of other accessible parts of the toy do not exceed the following values:	ET WILL MULTER WILL AN	Р
MILITE	- 45 K, for parts of metal;	aliek witer white whi	N
EX	- 50 K, for parts of glass or porcelain;	n, n, a	N
inti ai	– 55 K, for parts of other materials.	THE LIFE SLIFE MITTER	J P



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Clause	Requirement - Test	Result - Remark	Verdict
J.	THE STATE MITTER MATERIAL WAY	-W - V - X	at at
NUTTY W	During the tests,	ALTER DITER NATE	IN P
JET A	- sealing compound does not flow out;		et eP
r. Mir	- the toy does not emit flames or molten metal;	LIER WHILE WHILE W	P
EK WALTER	<ul> <li>dangerous substances are not produced, such as poisonous or ignitable gas in hazardous amounts;</li> </ul>	MULTER WALTER WALL	The Mul
ALTER	- vapour does not accumulate in the toy;	TEX JEX STEX	P.TE P.TE
TEX O	<ul> <li>enclosures do not deform to such an extent that compliance with this standard is impaired;</li> </ul>	My My M	P.
11 - 11 - 11 - 11 - 11 - 11 - 11 - 11	<ul> <li>batteries do not leak hazardous substances or erupt;</li> </ul>		P
t cit	materials, including the cotton gauze, do not char.	E. MULL MULL MU	Pull Pull
WALL TEX	After the tests, the toy was not damaged to such an extent that compliance with this standard is impaired.	White white white	THE STEET
10	ELECTRIC STRENGTH AT OPERATING TEMPER	RATURE	1115
TIEK WAT	The electrical insulation of the toy at operating temperature was adequate.	ITEK MILEK MILIEK M	P
EK WILLEY WILLEY	The toy was operated as specified in 9.3 and 9.4. One terminal of all components connected across the supply was disconnected and the insulation between parts of different polarity was then subjected for 1 min to a voltage of substantially sinusoidal waveform having a frequency of 50 Hz or 60 Hz and a value of 250 V.	Whitek whitek whitek	WALTER WALTE
11, 14,	No breakdown occurred.	WII TIE MUIT A	Р
11	MOISTURE RESISTANCE	IL A TEXT	TEN LIER
11.1	Battery toys intended to be used in water and toys likely to be cleaned with liquid have an enclosure providing the appropriate protection.	et lifet writes write	× mi ex mi
WALTER	Compliance for toys likely to be cleaned with liquid is checked by the test of sub clause 14.2.4 of IEC 60529, detachable parts having been removed.	Whitek Multer Multer	WALTE WALTE
ALTER WALTE	Excess water is then removed from the enclosure. The toy withstands the electric strength test of Clause 12 and inspection shows that there is no trace of water on insulation that could result in a reduction of creepage distances and clearances below the values specified in Clause 18.	THE MILITER WHITER W	THE W
	No breakdown occurred.		N



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Clause	Requirement - Test	Result - Remark	Verdic
Olduse	requirement rest	Troour Troman	Verdie
ner an	Compliance for battery toys intended to be used in water is checked by the following test, detachable parts being removed if this is more unfavourable.	INLIER WHITE WHI	JUN N
Whitek	The toy is immersed in water containing approximately 1 % NaCl, all parts of the toy being at least 150 mm below the surface. The toy is positioned in the most unfavourable orientation and operated for 15 min. There was no overpressure within the enclosure due to entrapped gas.	t while whilek whilek	
VILEK NV	The toy is then taken out of the water, positioned to allow excess water to drain, and the enclosure is wiped dry. The toy withstands the electric strength test of Clause 12.	LIET WHIEL WHIEL WHIE	AND THE
, wir	No breakdown occurred.	ELE OLIFE WALLE WALL	My Na
11.2	Toys are resistant to humidity.	in the set	↓ P
MU	Detachable parts are removed and subjected, if necessary, to the humidity test with the main part.	White white white w	Р
Write M	Toy subjected to humidity treatment test for 48 h	ALTER MITE WALTE WAL	JIP P
let 1	Relative humidity (93 ± 3) %	93 ± 3 %	t The
r. Mur	Temperature (20 - 30 °C ± 1K )	20 - 30 °C	4 m 4
ex whitex	The toy then withstands the test of Clause 12 in the humidity cabinet or in the room in which the toy was brought to the prescribed temperature after reassembly of those parts that may have been removed.	y while while while w	nn itik P
- Ct	No breakdown occurred.	Mr. M. S.	P
12	ELECTRIC STRENGTH AT ROOM TEMPERATURE	Sir Mili Mili	uni.
TEMPLY	The electric insulation of the toy at room temperature is adequate.	W. F. IE WALTE	Р
MATEX A	One terminal of all components connected across the supply is disconnected and the insulation between parts of different polarity is subjected for 1 min to a voltage of substantially sinusoidal waveform having a frequency of 50 Hz or 60 Hz and a value of 250 V.	united whited whited whi	
in mu	No breakdown occurred.	LIFE WALL WALL WALL	n P
13	MECHANICAL STRENGTH		P
MIL	Enclosures have adequate mechanical strength.	e write write write	n bu
WALTER.	Six blows applied to every point of the enclosure that is likely to be weak with an impact energy of 0,7 J by test Ehb of IEC 60068-2-75	See appended Table 13	LIE PL



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Clause	Requirement - Test	Result - Remark	Verdict
Clause	Requirement - Test	Result - Remark	verdict
Write M	The toy was not damaged to such an extent that compliance with this standard is impaired.	MITER WHITE WHITE	W P
itie wates	If there is doubt as to whether a defect has occurred by the application of preceding blows, this defect is neglected and a group of six blows is applied to the same place on a new sample that then withstands the test.	TEK WHITEK WHITEK WHI	it of the N
14	CONSTRUCTION	TEX TEX STEX	P.TE
14.1	Toys are battery toys, transformer toys or dual- supply toys.	Battery toys	P ITEL
11. 211.	Their supply voltage does not exceed 24 V.	the mil mer a	Р
TEX OLIF	Supply voltage (V)	Less than 24V	TEK STEP
X WALTEX	The working voltage between any two accessible parts of the toy does not exceed 24 V when the toy is supplied at rated voltage.	iter with with	P P
et	Working voltage (V):	Less than 24V	at at
14.2	The battery charger and the transformer of transformer toys are not an integral part of the toy.	WILL WILL WILL	and and
LIE WAL	Controls for the toy are not incorporated in the transformer.	ITEK WILLER WILLER WI	The N
EK WITE	However, this does not apply to railway sets, other than constructional sets.	* INLIER WHITEK WHI	Ex And In Nation
14.3	Transformer toys and dual supply toys are not intended for use in water.	sites wites writes	WILL WILL
14.4	Transformer toys and dual supply toys are not intended for use by children under three years old.	THE THE	CLIEK NALINA
14.5	Non-self-resetting thermal cut-outs, necessary for compliance with this standard, are only resettable with the aid of a tool.	TEK ME	Tet N Tet N
14.6	Button cells and batteries designated R1 are not accessible without the aid of a tool unless the cover of their compartment can only be opened after at least two independent movements have been applied simultaneously.	Whitek whitek whitek	WALLE WHILE
14.7	The batteries of toys intended for children under 3 years old are not removable without the aid of a tool unless the security of the battery compartment cover is adequate.	LIEK WHITEK WHITEK W	NITEL INTO
- w	An attempt is made to gain access to the battery compartment by manual means.	e write write wi	M. Na
MULL	It is not possible to open the cover unless at least two independent movements have to be applied simultaneously.	WHITE WHITE WHITE	Mur Nir



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	IEC 62115		
Clause	Requirement - Test	Result - Remark	Verdict
itek mut	The toy is placed on a horizontal steel surface. A cylindrical metallic mass of 1 kg, having a diameter of 80 mm, is dropped from a height of 100 mm so that its flat face falls onto the toy.	Miles Whiles whiles	STEP STEEL ST
it TEX	The battery compartment does not become open.	e stat a	× O+N
21/2	The battery compartment does not become open as a result of the preconditioning of 5.15.	white mail man	W N
14.8	Rechargeable batteries do not leak when the toy is placed in any position.	WALLER WHILE MALLE	unit un
nite wa	The electrolyte does not become accessible even if a tool has to be used to remove covers or similar parts.	HIEK WHITEK WHITEK W	net and N
14.9	Toys are not supplied by batteries connected in parallel unless a mixture of used and new batteries, or the reverse insertion of batteries, does not impair compliance with this standard.	United White White	Pur Pur
14.10	Plugs and socket-outlets of toys are not interchangeable with plugs and socket outlets listed in IEC 60083.	MITER WATER WAITER	until W
LIET	This requirement is not applicable to:	TEX LIEX NITER IN	ITE NIN
EK NIEK	<ul> <li>plugs which are too large to be introduced into the mains socket outlets</li> </ul>	the text of	EX STELL N
MALTER	- plugs which are too small so they can only be loosely inserted and do not stay firmly in place in the socket outlet aperture while in contact with the supply mains.	Whitek Multer Multer	Marie Walte
Inlie Wh	Toys intended for children under 3 years old cannot use cords and wires without connectors.	NI TEN WITTER	nii n N
14.11	Non-detachable parts that prevent contact with moving parts or hot surfaces, or access to locations where explosion or fire could be initiated, are fixed in a reliable manner and withstand the mechanical stress occurring during normal use.	t whitek whitek white	TEK WITEP W
WALTER O	Compliance is checked by applying the following pull force:	street satreet andreet	MALTE - P.TE
NITEK NA	<ul> <li>50 N, if the longest accessible dimension of the part does not exceed 6 mm;</li> </ul>	TEX TEX TEX	LIEK MIR
.L	- 90 N, for other parts.	in the the	Р
MULL	The force is gradually applied during a period of 5 s and maintained for a further 10 s.	EX WITER WITER WITE	In Pur
NLIER	The part does not become detached.	LEK JEK WIEK	P.T
14.12	It is not possible to charge rechargeable batteries when they are in the toy unless	My And An	N



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Clause	Requirement - Test	Result - Remark	Verdict
.ch	THE STATE WITH THE WAY WAY	To the state of th	et est
Muri M	for toys having a mass not exceeding 5 kg, it is not possible:	Write White White	uni un N
LIERWALI	to replace the rechargeable batteries by primary batteries without breaking the toy;	LIEK WHITEK WHITEK W	LIFE WALLEN
WALTER	to charge separate batteries or other toys from the toy;	ex nitex unitex unit	THE WALL
MULTER	to make a connection of incorrect polarity when recharging the batteries;	LIEX SLIEK WITEK	NATE NA
INTLEK MU	to operate the toy during charging unless it complies with the requirements for a dual supply toy;	WIEK MUTER MUTER	neiter white
TEX IT	for other toys:	at at all .	CEN SEN
11/2	the battery is fixed in the toy;	AUT, MUT, MU	N <sub>20</sub>
NATER I	connecting means are provided that prevent connection to standardised primary batteries and ensure correct polarity during insertion and charging of the rechargeable batteries;	Whitek whitek white	N.C.
TEX C	it is not possible to operate the toy during charging.	ur we we	N TEL
7/1	Mass of toy (kg)	The MULL MULL M	10 1
14.13	Toys do not incorporate series motors having a power input exceeding 20 W.	Et WILEY WILEY MILE	EX NOTE NO
- Let	Power input (W)		- 14 -16
14.14	Toys do not contain asbestos.	INLIE WALLE WALL	7/L 7/L
14.15	Internal parts of a toy having a voltage exceeding 24 V do not lead to any risk of harmful electric shock.	ar tre whitek	united and Not
LIET	Voltage of internal parts (V)	TEX IN	LIE JUIE-N
ex writex	Protective parts or parts preventing access to live parts are removed, even if the toy has to be damaged.	et writer writer write	A MUNICIPALITY
MALTER	In all conditions of test, the following values are be met:	TIEL WIEK WILEK	WALLEY - NIES
NLTEK WA	<ul> <li>the working voltage between any two parts of the toy does not exceed 5 KV when the toy is supplied at rated voltage;</li> </ul>	ories maries maries of	NITEL MIN
SEX STE	Working voltage (KV):	at at at	LEK LIEK O
t whitek	the maximum current from a circuit with a generated voltage exceeding 24 V is less than 0,5 mA;	UNIX WAL WALLER	Maria Marif
at-	Generated voltage (V)	711. 21. 21.	4 4
الد أثاران	Maximum current (mA):	TEK TEK TEK	INLI WALL



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Clause	Requirement - Test	Result - Remark	Verdic
.c.\		1 70 × 4	Lit LET
	<ul> <li>the maximum energy from a circuit with a generated voltage exceeding 24 V is less than 2 mJ;</li> </ul>	inter uniter unite	TEX LIEX
771	Generated voltage (V)	in mi mi m	7, - 7
IN CLIER	Maximum energy (mJ)	t let let is	It will - mi
12,	– the discharge does not exceed 45 μC.	Mr. Mr. Mr.	N
WITE.	Discharge (µC):	LEK LIEK LIEK	NITE WITE
14.16	Battery toys for children where the intended fixed position of the battery compartment can be above a child do have a battery compartment that prevents battery electrolyte leakage from the toy.	MULTER WHITER WHITER OF	REFER WALTER
te whitek	All batteries are removed from the toy. The toy is placed in its normal orientation and the battery compartment is filled with the quantity of water specified in Table 2, the water being at a temperature of 21 °C ± 1 °C.	EX WHITEX WHITEX WHITE	t with the
WITER	Battery type	TEX TEX TEX	NITE MITE
	Quantity of water per battery (ml)	ne me m	, , , , , , , , , , , , , , , , , , ,
LIE" NIL	Number of batteries	TEX LIEX NITER IN	LIE MILE
EK WALTER	The toy's casing may be broken to gain access to the closed battery compartment in order to add water but any damage does not affect the result of the test.	of Marier Autrest Marie	Et W
Writek W	After adding the water, the compartment is closed in accordance with the manufacturer's instructions taking care to avoid losing any water from the toy before the test is started. The toy is left in position for a period of 5 min.	White White White	miter aniter
ITE, WALT	During the test, water does not leak from the toy.	THE THE	I N N
15	PROTECTION OF CORDS AND WIRES	10, 10, 1	N
15.1	Wireways are smooth and free from sharp edges.	t aliet miter anite	Mr. N.
MULIEK	Cords and wires are protected so that they do not come into contact with burrs, cooling fins or similar edges that may cause damage to their insulation.	Whitek whitek whitek	WALTE WALTE
NITEK WA	Holes in metal through which cords and wires pass have smooth well-rounded surfaces or are provided with bushings.	LIEK WALTER WALTER W	NETER INCOM
White	Cords and wires are effectively prevented from coming into contact with moving parts.	et whitet whitet whi	'n N'u
15.2	Bare wiring and heating elements are rigid and fixed so that during normal use clearances and creepage distances cannot be reduced below the values specified in Clause 18.	Whitek whitek white	MIT MIT



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+ JEK	IEC 62115			
Clause	Requirement - Test	Result - Remark	Verdict	
16	COMPONENTS	LIER NIER MILER WALL	N P	
16.1	Components comply with the safety requirements specified in the relevant IEC standards as far as they reasonably apply.	See appended Table 16.1	WALTER WA	
16.1.1	Switches and automatic controls carrying a current exceeding 3 A during the tests of 9.3 and 9.4 comply with Annex C.	See appended Table 16.1		
White A	Current (A)	ALTER NATER WALTER WAY	Nor.	
	However, if they have been separately tested and found to comply with IEC 61058-1 or IEC 60730-1 respectively under the conditions occurring in the toy and for the number of cycles specified in Annex C, they may be used without further tests.	See appended Table 16.1	WITEK WA	
16.1.2	If components are marked with their operating characteristics, the conditions under which they are used in the toy are in accordance with these markings, unless otherwise specified.	See appended Table 16.1	LY N	
War. M	The testing of components that have to comply with other standards is, in general, carried out separately, according to the relevant standard.	initer unite unite unit	JUN N	
EK WITEK	If the component is used within the limits of its marking, it is tested in accordance with the conditions occurring in the toy, the number of samples being that required by the relevant standard.	H Whitek Whitek Whitek	in text and	
whitek wh	When no IEC standard exists for the relevant component, when the component is not marked or is not used in accordance with its marking, it is tested under the conditions occurring in the toy. The number of samples is, in general, that required by a similar specification	white white white white	N N N N N N N N N N N N N N N N N N N	
16.2	Toys are not fitted with	Mr. 24, 24	Р	
MULTER	<ul> <li>thermal cut-outs that can be reset by a soldering operation;</li> </ul>	Whitek whitek whiteh	N' Phi	
CLIER	- mercury switches.	LEK LEK LIEK L	P	
16.3	Transformers for toys comply with IEC 61558-2-7.	and and an an	N	
16.4	Battery chargers supplied with a toy comply with IEC 60335-2-29	MIT WILL WILL WILL	N	
, w	If they are battery chargers for use by children they comply with annex AA of that standard.	tex write write write.	No.	
17	SCREWS AND CONNECTIONS	F TEX LIER CLIER OF		



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TEL	IEC 62115			
Clause	Requirement - Test	Result - Remark	Verdict	
17.1 W	Fixings, the failure of which may impair compliance with these standard and electrical connections withstand the mechanical stresses occurring during play.	INTER WHITE WHITER WHITER	W P	
ek watter	Screws used for these purposes are not made of metal that is soft or liable to creep, such as zinc or aluminium.	* JUNITER MATTER MATTER	IN THE P	
WALTER	Screws used for electrical connections are screwed into metal.	MILIER MILIER MILIER MIN	N	
INITEK WA	Screws and nuts are tested if they are used for electrical connections or are likely to be tightened by the user.	THEK MUTER MUTER MUTE	X MILE	
Ite Wali	The screws or nuts are tightened and loosened without jerking	See appended Table 17.1	W LT Pur	
WALTER	<ul> <li>10 times, for screws in engagement with a thread of insulating material;</li> </ul>	MITER WITER WHITER W	I NI	
TEX	- 5 times, for nuts and other screws.	at at at a	et Pet	
ne n	Screws in engagement with a thread of insulating material are completely removed and re-inserted each time.	TEX TEX STEX WITH	N N	
IEK WALTER	The test is carried out using a suitable screwdriver, spanner or key and by applying a torque as shown in Table 1.	* whitek whitek	UN TEK P	
WALTER	Column I is applicable for metal screws without heads if the screw does not protrude from the hole when tightened.	WALTER WALTER WALTER WA	TE NE	
Writer AL	Column II is applicable for other metal screws and for nuts and screws of insulating material.	NULLE WALLE	n P	
LIEK WALT	No damage impairing the further use of the fixings or electrical connections occur.	THE WALTER	J CT P	
17.2	Electrical connections carrying a current exceeding 0,5 A are constructed so that contact pressure is not transmitted through insulating material that is liable to shrink or to distort unless there is sufficient resiliency in the metallic parts to compensate for any possible shrinkage or distortion of the insulating material.	Whitek whitek whitek whi	ni et N mit miter	
le m	Current (A)	THE MUT, MUT, MILL	30 - 3	
18	CLEARANCES AND CREEPAGE DISTANCES	et et tet stet	OLIEP-IN	
YUNLTEK.	Clearances and creepage distances of functional insulation are not less than 0,5 mm except when the toy meets the requirements of Clause 9 with this distance short circuited.	See appended Table 18	N	



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	IEC 62115		
Clause	Requirement - Test	Result - Remark	Verdict
united whit	However, for functional insulation on printed circuit boards, except at their edges, this distance may be reduced to 0,2 mm provided that the degree of pollution in the microenvironment in which the insulation is located is unlikely to exceed pollution degree 2 during normal use of the toy.	See appended Table 18	N N
WILLER WIN	Internal parts of toys that comply with subclause 14.15 and have a voltage exceeding 24 V have clearance and creepage distances for functional insulation equal to or greater than the values in Table 18 of IEC 60335-1 for pollution degree 2 except when the toy meets Clause 9 with this distance short circuited.	See appended Table 18	N N N N N N N N N N N N N N N N N N N
ie. white	For guidance, the pollution degrees as defined in IEC 60335-1 are as follows:	EX WALTER WALTER	N or
LIER	Degrees of pollution in the microenvironment:	fet tet itet	J NJ
	For the purpose of evaluating creepage distances, the following four degrees of pollution in the microenvironment are established	Whit while wifet will	EY WALTER
ILIEK WAL	<ul> <li>pollution degree 1: no pollution or only dry, non- conductive pollution occurs. The pollution has no influence;</li> </ul>	TEX MUTEX MUTEX	JALIE V
EK WALTER	<ul> <li>pollution degree 2: only non-conductive pollution occurs, except that occasionally a temporary conductivity caused by condensation is to be expected;</li> </ul>	y uniter whiter whiter a	
INLIEK W	<ul> <li>pollution degree 3: conductive pollution occurs or dry non-conductive pollution occurs that becomes conductive due to condensation that is to be expected;</li> </ul>	while white white	X N
ie whi	<ul> <li>pollution degree 4: the pollution generates persistent conductivity caused by conductive dust or by rain or snow.</li> </ul>	THE MILITE	N N
19	RESISTANCE TO HEAT AND FIRE	WILL WILL WILL W	in the
19.1 A	External parts of non-metallic material enclosing electric parts, and parts of insulating material supporting electric parts, are sufficiently resistant to heat if the toy has a working voltage exceeding 12 V and a current exceeding 3 A.	See appended Table 19.1	N P
EX WALTE	The test is carried out at a temperature of 40 °C ± 2 °C plus the maximum temperature rise determined during the tests of Clause 9 but it is at least 75 °C ± 2 °C.	EX WHITEX WHITEX	M TEN



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Clause	Requirement - Test	Result - Remark	Verdic
24	the the life with the		16
19.2	Parts of non-metallic material enclosing electric parts, and parts of insulating material supporting electric parts, are resistant to ignition and spread of fire.	Nites white white white	MP ALTEK V
ek walifek Tek	This requirement does not apply to decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate from inside the toy.	t whilet whilet whilet wh	IEX P
uriek an	The tests are carried out on parts of non-metallic material that have been removed from the toy. When the glow-wire test is carried out, they are placed in the same orientation as they would be in normal use.	white while whilek whilek.	P
r "it	These tests are not carried out on the insulation of cords and wires.	Ex Multer Multing Multing	P
19.2.1	Parts of non-metallic material are subjected to the glow-wire test of IEC 60695-2-11, which is carried out at 550 °C.	See appended Table 19.2.1	P.L.
riex and	The glow-wire test is not carried out on parts of material classified at least HB40 according to IEC 60695-11-10, provided that the test sample was no thicker than the relevant part.	TEX WITEX MUTEX MUTEX	WITER A
EK WHITEK	Parts for which the glow-wire test cannot be carried out, such as those made of soft or foamy material, meet the requirements specified in ISO 9772 for category HBF material, the test sample being no thicker than the relevant part.	MUTER WHITER WHITER WH	TERN WA
19.2.2	Parts of insulating material supporting connections carrying a current exceeding 3A and having a working voltage exceeding 12 V, and parts of insulating material within a distance of 3 mm of such connections, are subjected to the glow-wire test of IEC 60695-2-11 at a temperature of 650 °C.	See appended Table 19.2.2 A	N.E.
WALTER V	However, the glow-wire test is not carried out on parts of material classified as having a glow-wire ignition temperature according to IEC 60695-2-13 of at least 675 °C, provided that the test sample was no thicker than the relevant part.	See appended Table 19.2.2 A	WALLE
RITE WALTE WALTER WALTER	Parts that withstand the glow-wire test of IEC 60695-2-11, but which, during the test, produce a flame that persists for longer than 2 s, are further tested as follows. Parts above the connection within the envelope of a vertical cylinder having a diameter of 20 mm and a height of 50 mm are subjected to the needle-flame test of Annex B. However, parts shielded by a barrier that meets the needle-flame test of Annex B are not tested.	See appended Table 19.2.2 B	unci N



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Clause	Requirement - Test	Result - Remark	Verdic
		1 m	
itex mute	The needle-flame test is not carried out on parts of material classified as V-0 or V-1 according to IEC 60695-11-10, provided that the test sample was no thicker than the relevant part.	NUTER WHITER WHITE Y	itex Nitex
20	RADIATION, TOXICITY AND SIMILAR HAZARDS		* CE*
Mr.	Toys do not present a toxic or similar hazard.	" NUTE WALL WAL	in bu
ANNEX A	EXPERIMENTAL SETS	A A A	16 17
My M	The following modifications to this standard are applicable to all components of experimental sets supplied together or separately.	MILL MILL WAL	WILEY WILEY
5	GENERAL CONDITIONS FOR THE TESTS	Ve My My A	, J
5.10	Addition:	EX LIEX OLIER IN	N WILL NO
	The tests are carried out with the experiments described in the instructions that result in the most unfavourable condition.	MITER WHITER WHITE	t white the
5.15	Not applicable	a de de	Ne'
7112 5117	MARKING AND INSTRUCTIONS	WILL WULL MULL	mr. mr.
7.1 × White	Addition: The substance of the following is indicated on the packaging:	TEX MUTEX MUTEX M	LITER IN TO
WULL	WARNING: Only for use by children aged 8 years and older;	yntiek whitek whi	Mu. Nu
WALTER	<ul> <li>instructions for parents are included and have to be observed.</li> </ul>	UNLIEK WALTER WALTER	Maria N.T.
7.4	Addition: The instructions for parents state the minimum age of the child for whom the set is intended.	CLE THE THEFT	MITER WALLNES
The WALL	Detailed information is given in the instructions on how to set up and perform each experiment.	W IE W	The Marie N
LALTER	The instructions point out possible hazards.	t TEX LIEX LIFE	N.
WALTER WA	The instructions give technical information concerning the electrical parts, their behaviour and how to handle them properly.	Whitek whitek	WALTE WALTE
LITEK WALT	All hazards that can be expected during an experiment, such as those resulting from the short-circuiting of batteries or the wrong connection of capacitors, are described in detail.	THE WHILE WILLER	RETER WILL
- TEX	Instructions for children and for parents may be given separately.	mi mi m	N <sub>D</sub>
MUT. 1	If the instructions are given in one leaflet, the section addressed to parents is given first.	White White Whi	W N



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Clause	Requirement - Test	Result - Remark	Verdict
Clause	Requirement - Test	Result - Remark	verdici
uncit uni	The instructions include a warning against manipulation of protective devices such as current-limiting devices.	INTER WHITE WHITE	TEX TEX
	They describe the consequential dangers, such as overheating of cords, eruption of batteries and excessive heating.	the main main and	it was the way
8	POWER INPUT	The second second	- 10 - 10
Mr. M	Not applicable.	WILL MULL MULL	W. W
9 1	HEATING AND ABNORMAL OPERATION	The state of	TEX JEX
9.4	Not applicable.	LIE WALL WALL O	N. N.
9.6	Not applicable.	at at all .	CEL CEN
9.9	Addition: The temperature rise of surfaces, other than those of handles, knobs, buttons and similar parts, can exceed the limits if an appropriate warning is given in the instructions.	Whitek whitek white	w No
11 11	MOISTURE RESISTANCE	WILL MULTE WALL	mr. mr.
TEX JE	Not applicable.	L A A	THE SIN
12	ELECTRIC STRENGTH AT ROOM TEMPERATUR	ELE MULL AND AN	10 1
EX LIEX	Not applicable.	at let let is	CH N
13	MECHANICAL STRENGTH	MUL MUL MA	411 121
NLTER OF	Not applicable.	TEX TEX LIEN	N.TE
14	CONSTRUCTION	Mr. Mr. M.	20 T
14.1	Addition: The current does not exceed 5 A and the power input does not exceed 50 VA.	LELY JUNETER V	mitet on N
MUL	Current (A)	The Mark	11 - 11 - 11
* TEX	Power input (VA)		*
"EX	However these values may be exceeded during a period not exceeding 10 s.	MULL MULL MULL	N N
Whi. Wh	Period time (s)	ALTER MITER MALTE	While War.
15	PROTECTION OF CORDS AND WIRES	W. W.	N-
Vr. Mur.	Not applicable.	LIER WILL WHILL W	N N
ANNEX B	NEEDLE-FLAME TEST		et let
Wh.	The needle-flame test is carried out in accordance with IEC 60695-11-5 with the following modifications.	TEX TEX LIE	w Nu
7	SEVERITIES	wer we will	10,



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Clause	Requirement - Test	Result - Remark	Verdict
.ct	ART THE STATE OF T	-W W	, LEV
ing was	Replacement: The duration of application of the test flame is 30 s ± 1 s.	INTER WITE MALL WALLS	WAN TELY
9	TEST PROCEDURE	The Maria Maria	- "
9.1	Position of test specimen	t et tet jet a	N
Whitek M	Modification: The specimen is arranged so that the flame can be applied to a vertical or horizontal edge as shown in the examples of Figure 1.	MULTER WHITER WHITER WHITE	N
9.2	Application of needle-flame	TEX TEX TEX WITE	Ň
TEX NITEX	Modification: The first paragraph does not apply.	A CA THE THE	N
* WUTER	Addition:  If possible, the flame is applied at least 10 mm from a corner.	aliek wilet writek wil	N N
9.3	Number of test specimens	711 111	N
mri mr	Replacement: The test is carried out on one specimen.	INTER WALTE WALTE WALTE	WN.
EX TEX	If the specimen does not withstand the test, the test may be repeated on two additional specimens, both of which then withstand the test.	LIEK WHITEK WHITE V	NON S
11 🗥	EVALUATION OF TEST RESULTS	THE WALL WALL WALL WALL WALL	-7/1
WALTER	Addition: The duration of burning (t <sub>b</sub> ) does not exceed 30 s.	See appended Table 19.2.2 B	* N.
INLIEK WA	However, for printed circuit boards, the duration of burning does not exceed 15 s.	TEN SLIFER MATER	NX NX
ANNEX C	AUTOMATIC CONTROLS AND SWITCHES		, Ç
C.1	Automatic controls that are tested with the toy comply with this standard and with subclauses 11.3.5 to 11.3.8 and Clause 17 of IEC 60730-1 as type 1 controls.	t tex stex wifex with	er N
NITEK W	The tests according to IEC 60730-1 are carried out under the conditions occurring in the toy.	the the the the	N
17EX 17	For the tests of Clause 17 of IEC 60730-1, the number of cycles of operation are	and any any and	N
u. M.	- thermostats 3 000	life while while when	N
Et LIET	- self-resetting thermal cut-outs 300	at at let let	JE N
10,	- non-self-resetting thermal cut-outs 10	MULL MULL MULL MI	N
C.2	Switches that are tested with the toy comply with this standard and with the following clauses of IEC 61058-1, as modified below.	WHITEK WHITEK WHITEK WHIT	N



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	IEC 62115		
Clause	Requirement - Test	Result - Remark	Verdict
MULLER MUL	The tests of IEC 61058-1 are carried out under the conditions occurring in the toy.	INLIER WHITEK WHITEK	W. W.
ITE WALTE	Before being tested, switches are operated 20 times without load.	TEX WILEY WILES W	TE NITN N
8 11	MARKING AND DOCUMENTATION	et et set se	t will - wi
72	Switches are not required to be marked	Mur. Mur. M.	N
White W	However, a switch that can be tested separately from the appliance is marked with the manufacturer's name or trade mark and the type reference.	MILIER MILIER WHITER	White Wiles
15	INSULATION RESISTANCE AND DIELECTRIC ST	RENGTH	1 N
IE WALTE	Sub clause 15.1 is not applicable.	EX LIEX NITER IN	N <sub>M</sub>
t st	Sub clause 15.2 is not applicable.	in the state of	N
MUT. A	Sub clause 15.3 is applicable for full disconnection and micro-disconnection.	White white white	Mr. Nr.
17	ENDURANCE	TEX LIEK NITER	nite IN
LIEK WILL	For 17.2.4.4, the number of cycles of actuation declared according to 7.1.4 is 3 000.	in the the	TEK N
70,	Subclause 17.2.5.2 is not applicable.	TI MUT MUT M	N
	At the end of the tests, the temperature rise of the terminals has not increased by more than 30 K above the temperature rise measured in Clause 9 of this standard.	Whitek whitek whit	ek vin te Nini
40,	Temperature rise of the terminals (K)	Mer Mer My	( ) - ( )
20	CLEARANCES, CREEPAGE DISTANCES, SOLID COATINGS OF RIGID PRINTED BOARD ASSEMB		NITE WALLE
TEX WALTER	This clause is applicable to clearances and creepage distances for functional insulation, across full disconnection and micro-disconnection, as stated in Table 24.	t TEK TEK UTE	
ANNEX E	TOYS INCORPORATING LASERS AND LIGHT-EN	MITTING DIODES	70.
Murit M	The following modifications to this standard are applicable for toys incorporating lasers and light-emitting diodes.	WALTER WALTER WALTER	meric mN
5	GENERAL CONDITIONS FOR THE TESTS	ALTER WALTER WALTER WI	in min-
5.2 NALTER	The tests of this annex may be carried out on separate toys after the preconditioning of 5.15.	et lifet milet unit	Et JEN
20	RADIATION, TOXICITY AND SIMILAR HAZARDS	411. 12.	
Wr. A	Toys do not emit harmful radiation.	LIET LIFE WITE	N. N.



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	IEC 62115		
Clause	Requirement - Test	Verdict	
NVILLER VI	Lasers and light-emitting diodes in toys meet the requirements for Class 1 lasers in accordance with IEC 60825-1.	Writer Murie, Murie,	IN IN N
10	The toy is supplied at rated voltage.	ALL MULL MULL AND	N
ek white	The measurement is also made with parts such as lenses, reflectors or filters, which could affect the focusing of the laser or light-emitting diode, removed, even if the toy has to be damaged.	A MUTER MUTER MUTE	WALLEY WILL
NUTER AN	This measurement is carried out even if the relevant parts of the encapsulation, lenses, reflectors or filters are broken off during the preconditioning of 5.15.	MULLER MULLER AND THE	NITEL WILLER
TE WALT	The fault conditions listed in 9.8.2 of this standard are taken into account when testing low-power circuits.	Ex Milex Mulier Miles	L WILL NULL





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8	TABLE: Input data under normal operation						
Rated voltage U (V)			Rated input (W) or (VA)	Measured input (W) or (VA)	Deviation	Normal operation / Remarks	
Single Voltage (V)	Lower Voltage Limit (V)	Upper Voltage Limit (V)	Mean Value of Range	MUTIEK M	LIEX WALTER	white whi	whit will w
201	10, 0	4 1	- EX	TEX OLT	antie a	NIT WAL	Mr. Mr. M.

9.3	TABLE: Heating Test				P̈́
1, 4,	Test voltage (V)	.;	3V V	Mr. Mr.	20,
IER JAL	Ambient (°C)	:	23.2	- THE STEE STEE	
	Operating time	: Steady			
WALTE	Input Watts (W)	:	LIEX SLIER MILE MIL		
<del></del>	Input Volt-Amperes (VA)	:			_
MULL	Thermocouple Locations	Max. Temperatu (K)	re rise	Max. temperature (K)	e limit,
Battery surface		6.1	LEY LE	45	WILL
Battery compartment		5.3		35	
Enclosure near battery, outside		2.8	at all	35	10

9.4	TABLE: Heating Test			N L
	Test voltage (V)		TE MITE MALI	MILL
at	Ambient (°C)		4 14	
in m	Operating time		Te WULL	1/12 -1
+ .	Input Watts (W)		s st st	et-
MUE	Input Volt-Amperes (VA)		White White	n, <u>m</u> ,
Thermocouple Locations		Max. Temperature rise (K)	Max. temperature lin	

9.5	TABLE: Heating Test	ER WILL MULL MULL MI	N
t let	Test voltage (V)		× -568
Me	Ambient (°C)	WILL MULL AND AND	The same
TEX	Operating time	at left of the	THE P.



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Input Watts	s (W)		murry when we
		- 150°	NITE WALLEY WALLEY
Thermocouple Locations		Max. Temperature rise (K)	Max. temperature lim
	et set s	EX SITEY WALL WALL W	7 70 70 70

3	TABLE: Heating Test					
et	Test voltage (V)					
17.						
<u>.</u>	Operating time					
t TEX	Input Watts (W)					
	Input Volt-Amperes (VA)	:	et tet s	et —		
Thermocouple Locations		Max. Temperature rise (K)	Max. temperature lir			
JALIA .	The All All	EV STEE	LIFE MILE WALL	MIL		

9.8.2	TABLE:	<b>Fault Condition Tests</b>	Thu Thu				N
'm'	Ambient	temperature (°C)	:	WITE OF	ALTE WALTE	mr. m	-711
Compo	nent	Fault Condition	Test Voltage (V)	Test Duration	Fuse-link Current (A)	Commen	t/Result
at a	EK TE	LIER WIFE WA	in we w	10	200	x at	LEX.
UNLIER WAY	W. Tr	101 101 101			is' ni	CK WILEK	NN

13 TA	BLE: Imp	act Resistance		WILL WILL E
Impacts per si	urface	Surface tested	Impact energy (Nm)	Comments
6	24.	Plastic enclosure	0.7 J	No damage
A 6 C	LIE	Battery compartment	0.7 J	No damage

16.1	TAE	BLE: Critical comp	onents informat	ion	mer mer	M	N P
Object / pa	rt No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mai	rk(s) of nformity <sup>1)</sup>
Supplemen	tary inf	ormation:	Mer Mer	41. 24. 24.	.L /\t /	et a	et de
1) Provided	eviden	ce ensures the ag	reed level of com	pliance. See OD-Cl	32039.		



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17.1	TABLE: Thread	led Part Torque Test		P
Threaded pa	art identification	Diameter of thread (mm)	Column number ( I or II)	Applied torque (Nm)
Screw for fixing	ng enclosure	2.01	at let let	0.4

18	TABLE: Clearar	nce And Cree	page Distan	ce Measurem	ents	70.	L N
clearance distance d	cl and creepage dcr at/of:	Up (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)
CLIEF O	LIE MILL WALL	ne ne		1	t set	TEX TEX	CLIER

19.1	TABLE: Ball F	Pressure Test of Ther	moplastics	70.	N
Allowed im	pression diamete	r (mm):	TEX SITES	INLIE WALTER WAY	24/1
Object/ Pa	rt No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diame	ter (mm)
		TE III	Air Augustin Augustin	711. 12.	, L
LIFE NALL	MULL MUL		et set st	X LIEK OLIEK	MLITE AN

19.2.1	TABLE: Glow	E: Glow Wire Test (GWT)					B <sub>10</sub>
Test Cond	ditions	GWT according to IEC	60695-2-1	1		<u>,                                    </u>	+ -
Test temp	erature (°C)	550°C	LIEN	TEK N	TER WALTE WALT	MUL	in,
Object/ Pa	art No./ Material	Manufacturer/ trademark	te,	ti	Specified Layer under Test Specimen ignited, Yes/No	Other	remarks
Plastic en	closure		N	N	No	7	1, 4
Battery co	mpartment	mi whi wh	N N	N	No	4	(E) 1

19.2.2 A TABLE: Glow Wire Test (GWT) / Glow Wire Ignition Temperature (GWIT)					) in land	N	
Test Condit	tions	GWT according to IEC	C 60695-2-	11	- TEX TEX	ALTER MITE	
Test tempe	rature (°C):	650°C	MULTE	MULL	my my	n 12	_
Object/ Par	t No./ Material	Manufacturer/ trademark	te,	onliti-	Specified Layer under Test Specimen ignited, Yes/No	Other rema	rks
1	at let is	EX WILL WILL	in in	in m	1111 1111	.+	4



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	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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Object/ Part No./ Material	Manufacturer/ trademark	GWIT	- TEX LIEX	Other remarks
L A BY ART	ITEX LIEK WALT	MULL MULL	me -m	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
LIE WILL MULT WALL	in In	at at	TEX TEX	alie alie an

19.2.2 B	TABLE:	Needle- flame test (	NFT)	EX LIEX SLIP	IN THE W	N
Object/ Part Material	No./	Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
TEX JE	X OLIES	INCTE MALTE WA	70, 70,	- X	at at	TEX

Supplementary information:

NFT not relevant for Parts of material classified as V-0 or V-1

===== End of Report =====





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IEC 62115 – Attachment				
Clause	Requirement + Test	Result - Remark	Verdict	

5	GENERAL CONDITIONS FOR THE TESTS	white white white
5.15	Replace: Before starting the tests, the toy is preconditioned by subjecting it to the following tests of EN 71-1, the batteries in position: (A2:2011)	LIFE WILET WEEK
WALTEX	Replace: Drop test — for toys having a mass less than 4,5 kg including batteries, irrespective of the age group; (A2:2011)	WALTER WALTER WALTE
inlite v	Replace: Static strength test for sit-on or stand-on toys; (A2:2011)	united white win
y vile	Replace: Dynamic strength test for wheeled ride-on toys; (A2:2011)	is with an No
WALTER WALTER	Replace: Tension test — for all toys; however, the force being 70 N ± 2 N independent of the dimensions and applicable independent of age group; (A2:2011)	Whitek whitek whitek
	Replace: Tension test for seams and materials — for toys having textile or other flexible materials covering batteries or other electrical parts. (A2:2011)	it white and the ma
5.7	Add the following:	until white will
INLIEK V	The interconnection cord set for connection to a computer, console, monitor screen or other audio-video equipment supplied with a computer toy is tested with the connector of the interconnection cord set fully inserted in the appliance inlet of the toy.	MILIER WALTER WALTER
* 11	The plug-connector at the other end of the interconnection cord is not tested (see 14.Z1).	et set set N

6	CRITERIA FOR REDUCED TESTING		TET
6.1	Replace: "Clauses 10 to 12" by "Clauses 10, 11.2 and 12".	t at let the	Р
6.2	Replace the text by the following:	White Mar My 1	N
iek wn	Battery toys are considered to comply with Clauses 10, 11 (except 11.1), 12, 15 (except 15.2), 17 (except 17.1 for battery compartments intended to contain button cell batteries), 18 (except the additional distances for computer toys) and 19 if (A11:2012)	MULTER MULTER MULTER MULTE	TO NOTE



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	IEC 62115 – Attachment			
Clause	Requirement + Test	Result - Remark	Verdict	
Whitek whitek	— the accessible insulation between parts of different polarity cannot be bridged by a straight steel pin having a diameter of 0,5 mm and any suitable length over 25 mm, (insulation between parts of different polarity in battery compartments protected by a cover that can only be removed with the aid of a tool or by two independent movements applied simultaneously are not considered as accessible for the purposes of this requirement), and (A11:2012)	LIEK WALTER WALTER WALTER	White white	
untilek vunti	— the total battery voltage does not exceed 2,5 V, measured 1 s after a 1 C) resistor has been connected between the supply terminals of the toy, with any current limiting device short-circuited and without the toy being operated. (A11:2012)	LEK Whitek whitek wh	TEK MIN	

7	MARKING AND INSTRUCTIONS	201. 21.
7.4	Delete the dashed item "- the types of batteries that may be used".	WITER WALTE WAN
WITEK V	Replace the 5 <sup>th</sup> paragraph (introduced by EN 62115:2005/A2:2011) with the following: (A11:2012)	TER WHITER WALT P W
TE VINI	The instructions and markings for dual-supply toys include the instructions and markings required for both battery toys and transformer toys.  (A11:2012)	Note White white
MALTER	Add the following before the paragraph starting with "The instructions for transformer toys": (A11:2012)	NETER MILIER MILIER
CLEK ON	For transformer toys, the following age warning is visible to consumers at the time of purchase:  "Warning Not suitable for children under 36 months".  (A11:2012)	EX WILL AN TEN
Whitek Whitek	A brief indication of the specific hazard calling for this restriction (e.g. misuse of transformer can cause electrical shock) "accompanies the age warning or appears in the instructions which accompany the toy. (A11:2012)"""""	MILES WRITES WRITES
ilek nu.	The text "Not suitable for children under 36 months" may be replaced by the age warning symbol from EN 71-1. (A11:2012)	et mutes an lest and



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TE	IEC 62115 – Attachment			
Clause	Requirement + Test	Result - Remark	Verdict	
WILLER WILL  LIFER WILL  EX LIFE	This requirement does not apply to toys which, on account of their function, dimensions, properties and similar characteristics, are clearly unsuitable for children under 36 months. The term "36 months" may be replaced with the term "3 years".  (A11:2012)	LIFE WALTER WALTER WAL	NUTE OF N	
WITEH	Replace the second dash in the third list with the following new dashes: (A11:2012)	white with white	NITE NATE	
STEK S	— the toy is only used with a transformer for toys; (A11:2012)	in the tex	TEL N	
iek wii	— the model number or specification of a suitable transformer for use with the toy; (A11:2012)	t iter with my	EX TEX	
t alter	Add the following before the last paragraph: (A11:2012)	TEK TEK TEK	N N	
NUTEX O	For computer toys which do not meet the requirement of 14.Z1 b), the instructions states the substance of the following: (A11:2012)	one whitek writes a	MITER MALTER	
	"The toy is only to be connected to Class II equipment bearing the following symbol" (A11:2012)	EX UNITER WAITER WA	Y N	
MULTER	Symbol 5172 of IEC 60417-1.  (A11:2012)	WHITE WALTER WALTER	WALTE WALTE	
7.5	Replacement:  When the markings or instructions included in 7.4 are on the packaging only, it is also be stated that the packaging must be retained since it contains important information.  (A12:2015)	TEX WILL TEXT	THE W	
7.Z1  WALTER  WALTER  WALTER  WALTER	The accessible parts of toys that are intended for children 3 years and over but less than 8 years which exceed the temperature rise limit for children less than 3 years according to Table Z1 (see 9.9) carry the following warning that is visible to consumers at the time of purchase: (A11:2012)	White whitek whitek	WATER WATER	
EK WALT	"Warning Not suitable for children under 36 months" (A11:2012)	- LIEK MITEK MILIE	TAN TELN	
MULLER	The text "Not suitable for children under 36 months" may be replaced by the age warning symbol from EN 71-1.  (A11:2012)	WALTER WALTER WALTER	MULTE WILL	



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	IEC 62115 – Attachment		
Clause	Requirement + Test	Result - Remark	Verdict
J.E.	THE THE LIFE WITH MALE WAS TO THE		ct cet
uni. u	The term "36 months" may be replaced by "3 years". (A11:2012)	niter white white w	N N
	A brief indication of the specific hazard calling for this restriction (e.g. hot surface) accompanies the age warning or appears in the instructions which accompany the toy.  (A11:2012)	the whitek whitek whitek	see we see whi
Whitek W	This requirement does not apply to toys which, on account of their function, dimensions, properties and similar characteristics, are clearly unsuitable for children under 36 months.  (A11:2012)	ONLIEK WHITEK WHITEK	unlie winke
TEK WALT WALTER	The accessible parts of toys that are intended for children 8 years and over, and which exceed the temperature rise limit for children 3 years to less than 8 years according to Table Z1 (see 9.9) carry the following warning that is visible to consumers at the time of purchase: (A11:2012)	et whitek whitek whitek	white white
nur 1	"Warning Not suitable for children under 8 years" (A11:2012)	LETE WHITE WALL A	L WN
VEL MUTE	A brief indication of the specific hazard calling for this restriction (e.g. hot surface) accompanies the age warning or appears in the instructions which accompany the toy.  (A11:2012)	EX WHITE WHITE WHITE	t we get who

9	HEATING AND ABNORMAL OPERATION	ing my my m	
9.1	Replace the first sentence by the following: (A11:2012)	TE WILLE WILLE	un'P
ek vil	Toys do not attain excessive temperatures in use, and do not malfunction in such a way as to cause any unintended operation that may impair safety. (A11:2012)	TWO FIRST WALTER WA	ITE P WA
Writek Writek	Toys which have an electronic control system are designed and manufactured in such a way that they operate safely even if the electronic system starts malfunctioning due to a failure of the system or due to electromagnetic influence from an outside source. (A11:2012)	While whitek whitek whitek	N WALTEK MITEK
LEK WY	Add the following new paragraphs after the 6 th paragraph starting with "Toys incorporating electronic circuits "".  (A11:2012)	Whitek Mritek Martek Mr	TELN TINE
WALTER	If during the tests of 9.8 an electronic circuit prevents the hazardous conditions listed in 9.9 or dangerous malfunction, it additionally complies with Annex ZB. (A11:2012)	Whitek whitek white white	N <sup>L</sup>



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Clause	Requirement + Test	Result - Remark	Verdict
Clause	Requirement + Test	Result - Remark	verdict
nntiek mei Et te	In this case, the electronic circuit is considered as a protective electronic circuit. Toys with an electronic offmode or stand-by mode also comply with Annex ZB, if the toy can malfunction in such a way as to cause any unintended operation that may impair safety. (A11:2012)	ter united united whi	THE WATER OF
9.8.2	Replace paragraph two with the following: In addition, each low-power circuit is short-circuited by connecting the low-power point to the pole of the supply from which the measurements were made. (A12:2015)	WILL WALTER WALTER	WILLER WILLER
	If this short circuit cause a hazardous condition, the short circuit is removed and the tests of a) to f) applied to the relevant low-power circuits.  (A12:2015)	ter white whitek white	ek on tek on
9.9	Replace the text with the following: (A11:2012)	NITER MITER MITER	WILL MILL
WALTEX	During the tests, the temperature rises of accessible parts are monitored continuously. (A11:2012)	LIER WHILER MULTER	NITER PER
LIEK WA	The temperature rise of the surface of handles, knobs and other parts that are likely to be touched by hand do not exceed the following values:  (A11:2012)	ex whitex whitex and	TEX WITE
- VEX	25 K, for parts of metal; (A11:2012)	Mer Mer Mus	W N
MUS	30 K, for parts of glass or porcelain; (A11:2012)	NITE WILL WILL	an an
Write M	35 K, for parts of plastic or wood. (A11:2012)	JE WALTER W	in P
iter wat	The temperature rise of other accessible parts of the toy do not exceed the values specified in Table ZI. (A11:2012)	THE THE THE	P
whitek wh	The temperature rise of battery surfaces and other parts inside the battery compartment, where batteries are inside a battery compartment with a cover, which can only be opened by the use of a tool or by at least two independent movements applied simultaneously, do not exceed 45 K. (A11:2012)	Whitek whitek whitek whitek whitek	Who Pic
iek mil	During the tests, (A11:2012)	TEX ITEX SLIP	X JEKP
t JEK	sealing compound does not flow out; (A11:2012)	THE THE THE	P
7/11	the toy does not emit flames or molten metal; (A11:2012)	me, me, m	Р



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t TEX	IEC 62115 – Attachment			
Clause	Requirement + Test	Result - Remark	Verdict	
	TEX TEX TIL WITH MALE MALE		LIX LEX	
WIEX W	dangerous substances are not produced, such as poisonous or ignitable gas, in hazardous amounts; (A11:2012)	iter write write wr	THE STATE OF	
	vapour does not accumulate in the toy; (A11:2012)	whi wit was	P W	
	enclosures do not deform to such an extent that compliance with this European Standard is impaired; (A11:2012)	white white white	WALTER PALTER	
TEX.	batteries do not leak hazardous substances or erupt; (A11:2012)	by my my a	P	
in in	materials, including the cotton gauze, do not char. (A11:2012)	ie mili muli mu	Р	
X WHILEK	After the tests, the toy is not damaged to such an extent that compliance with this European Standard is impaired. (A11:2012)	White white white	unit Pun	
MULIEK MA	Toys having accessible parts with temperature rises exceeding the values in Table Z1 for children less than 3 years or for children between 3 years and 8 years have a warning together with the appropriate age indication, 3 years or 8 years (see 7.Z1). (A11:2012)	TEX MULTER MULTER M	EX WITER ON	

14	CONSTRUCTION	MULL MULL MULL MULL	70,
14.1	Replace the first paragraph to read: (A11:2012)	DIFEX WITER WHITER WHITE	PIE
MALTEX V	Toys are battery toys, transformer toys or dual-supply toys. (A11:2012)	Battery toys	MAL P.K
iliek wai	Their nominal supply voltage does not exceed 24 V. (A11:2012)	TEX WILLER W	TE P
14.2	Delete the second sentence of the second paragraph	CALLER MALLE MALLE MALL	Р
14.10	Addition: Connectors (jack plugs, USB plugs, RCA phono plugs etc.) with a diameter or diagonal measurement between 3,75 mm and 5,25 mm and length greater than 7 mm are considered to fail this requirement. (A12:2015)	EX WHITEX WHITEX WHITEX	N Et
14.Z1	Computer toys are safe when connected to a computer, console, monitor screen or other audio-video equipment, even in case of a fault in the equipment it is connected to. (A11:2012)	WAITER WHITER WAITER WA	TE NINE



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F TE	IEC 62115 – Attachment	The second second	JET JE
Clause	Requirement + Test	Result - Remark	Verdict
WALLER A	Computer toys therefore comply with one of the following conditions: (A11:2012)	LIET WHITE WHITE W	NET TEX
EK WALTE	a) the computer toy includes an instruction to advise that the toy is only connected to equipment of Class II (see 7.4); or (A11:2012)	Whitek Miller Mailer	whi ex wri
WALTER WA	b) conductive parts of computer toys electrically connected to a computer, console, monitor screen or other audio-video equipment are not accessible in the toy and the insulation between such parts and accessible parts have a thickness of at least 1 mm and an adequate electric strength.  (A11:2012)	ALTER WALTER WALTER	unife unNe
ANTIER ANTIER	The test is carried out with the toy in the fully assembled condition with battery compartment covers in place, unless it is necessary that the covers are removed for the correct use of the toy. (A11:2012)	MULTER MULTER WHITER	MILITA WALT
whi w	The connectors of the interconnection cord are fully inserted in the relevant appliance inlets of the toy. (A11:2012)	nties while while w	N N
iek wite	The plug-connector at the other end of the cord for connecting to the equipment is not tested. (A11:2012)	tiek stiek with	K W W
WALTEK.	Further connections from the toy to other parts of the toy are not connected. (A11:2012)	WILEY MITER WALTER	WALTE WALTE
WUTEK M	The toy is operated under normal operation according to 9.3. (A11:2012)	LE WILLEY W	with mint
LIE WALTER	The toy is then disconnected from the supply and the insulation is immediately subjected to a voltage of 1 500 V having a frequency of 50 Hz or 60 Hz for 1 min, in accordance with EN 61180-1. (A11:2012)	Whitek whitek whitek	TEN OF THE WALL
MITEK W	The high-voltage source used for the test is to be capable of supplying a short circuit current I s between the output terminals after the output voltage has been adjusted to the appropriate test voltage.  (A11:2012)	WIEK WHITEK WHITEK	united NE
iek whit	The overload release of the circuit is not to be operated by any current below the tripping current I r. The value of Is is 200 mA and the value of Ir is 100 mA. (A11:2012)	Whitek Multer Multe	in in wh



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	IEC 62115 – Attachment		
Clause	Requirement + Test	Result - Remark	Verdic
HULLER MULL	The test voltage is applied between conductive parts intended to be connected to a computer, console, monitor screen or other audio-video equipment and accessible parts, non-metallic parts being covered with metal foil.  (A11:2012)	TER WATER WATER WAS	PLICET OF N
MULIEK	The metal foil is placed on and following the surface but is not pushed down into recesses or appliance inlets. (A11:2012)	WILL WALTER WALTER	unite unite
INLIER VI	The above mentioned connectors inserted into the appliance-inlets are also covered by metal foil. (A11:2012)	LEX MULLEX MULLER M	LITER IN IN
IE WALL	No breakdown occurs during the test. (A11:2012)	MALTER WALTER WALT	M. Nu
WALTER	For computer toys complying with 14.Z1 b), the distances as stated in Clause 18 are fulfilled. (A11:2012)	WALTER WALTER	WIT NO
Write A	Very Must all Any	LIER MITER WITER	WILL MULT
16	COMPONENTS	70.	et et
16.3	Replace the text by the following:	EX WITE WHITE WA	N s
ex walte	Transformers for toys comply with EN 61558-2-7 for linear types or EN 61558-2-7 and EN 61558-2-16 for switch mode types. (A11:2012)	Approved	y we exp

18	CLEARANCES AND CREEPAGE DISTANCES		-Cit
in .	Add the following requirement before the last paragraph:	The man with	N
ek white	For computer toys intended to be electrically connected to a computer, console, monitor screen or other audiovideo equipment, both creepage and clearance distances between accessible parts and conductive parts are at least 1,5 mm (see 14.Z1 b)). (A11:2012)	whitek whitek whitek whi	ek white
MU	Distance measurement (mm)	in me me	N N

20	0	RADIATION, TOXICITY AND SIMILAR HAZARDS	at the state of	(E* (
1,	nv.	Replace the text by the following:	WILL WELL MELL AND	Р
KEN	WALTER	Toys do not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use. (A11:2012)	UNITER WALTER WALTER	PITE



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IEC 62115 – Attachment				
Clause	Requirement + Test	Result - Remark	Verdict	
ounliek ou	Toys incorporating lasers and or light emitting diodes (LED) comply with Annex E. (A11:2012)	LIET WATER WALTER WALTER	N N	
ex antie	Toys with an integrated field source comply with Annex ZC. (A12:2015)	THE LIET STEET OF	N W	

ANNEX ZB	TOYS WITH PROTECTIVE ELECTRONIC CIRCUIT (A11:2012)	LIER MULTER MULTER MULTER MULTER
MITER WALT	If during the tests of 9.8 an electronic circuit prevents the hazardous conditions listed in 9.9 or dangerous malfunction, it additionally complies with the following requirements.	H WHITEK WHITEK WHITEK HENN
t tet	In this case, the electronic circuit is considered as a protective electronic circuit.	Mark who we would N
Whitek W	For toys with a protective electronic circuit, the following requirement is therefore applicable in addition to Clause 9.	nith whit wall was N
9.ZB	The toy does not malfunction in such a way as to cause an unintended operation that may impair safety or present a dangerous malfunction due to influence from electromagnetic phenomena (EMP).	TURE WALTER WALTER WILE
WALTE	Compliance is checked by the test of 9.ZB.1 and 9.ZB.2.	Whitek multer whiteh white No.
White	Transformer toys and dual-supply toys incorporating a protective electronic circuit are additionally subjected to the tests of 9.ZB.3 to 9.ZB.7, using the supplied or the recommended transformer for toys.	titek militek maite milite militek
1, 1,	The tests are carried out under the following conditions.	N N
iek white	The tests are carried out with the toy supplied at rated voltage and the toy operated in the following modes:	IN THE WILLEY WE TEN
MUT.	— electronic off mode;	nite unit will will No
LEX.	— stand-by mode;	No.
MUC. M	— operating mode.	TE WILL MILL MULL MIN
ALTEK WALT	The tests are carried out after the protective electronic circuit has operated during the fault conditions of 9.8.2.	* SIER NIET MITER NIEN
EK MITEK	The tests are carried out with surge arresters disconnected, unless they incorporate spark gaps.	THE THE THE N
t TEX	Toys incorporating electronic controls complying with the EN 60730 series are not exempt from the tests.	What will all the N



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t JEK	IEC 62115 – Attachment			
Clause	Requirement + Test	Result - Remark	Verdict	
antiek anti	If the protective electronic circuit includes only passive electronic components such as positive temperature co-efficient (PTC) resistors, negative temperature co-efficient (NTC) resistors or voltage dependent resistors (VDRs), the tests of Annex ZB are not applied.	LIFE WALTER WALTER WAL		
9.ZB.1	The toy is subjected to electrostatic discharges in accordance with EN 61000-4-2, test level 4 being applicable.	White white white	N N	
UNLTEK DIN	Ten discharges having a positive polarity and ten discharges having a negative polarity are applied at each preselected point.	TEX INTEX MILITER AND	LIEL N.	
9.ZB.2	The toy is subjected to radiated fields in accordance with EN 61000-4-3, test level 3 being applicable.	t whitek whitek	EX JEN	
9.ZB.3	The toy is subjected to fast transient bursts in accordance with EN 61000-4-4.	MITER WHITEK	N. S	
TEX	Test level 3 is applicable for signal and control lines.	at the test	Net Net	
1/1 1/	Test level 4 is applicable for the power supply lines.	The Wall Augh A	W. W.	
VILEK MU	The bursts are applied for 2 min with a positive polarity and for 2 min with a negative polarity.	ex sitex witex wh	TEX WITH M	
9.ZB.4	The power supply terminals of the toy are subjected to voltage surges in accordance with EN 61000-4-5, five positive impulses and five negative impulses being applied at the selected points.	MULTER WALTER WHITE	y y N	
WAL.	Test level 3 is applicable for the line-to-line coupling mode, a generator having a source impedance of 2,12 being used.	Intitle white white	unt on	
riek avri	Test level 4 is applicable for the line-to-earth coupling mode, a generator having a source impedance of 12 S2 being used.	t tex un	N N	
ek walter	For toys having surge arresters incorporating spark gaps, the test is repeated at a level that is 95 % of the flashover voltage.	WILLEX MALTER WALTER	white white	
9.ZB.5	The toy is subjected to injected currents in accordance with EN 61000-4-6, test level 3 being applicable.	LIEX SLIEK WLIEK	INTER NEW	
NITEK IN	During the test, all frequencies between 0,15 MHz to 80 MHz are covered.	EX TEX TEX	LIEK NIIN	
9.ZB.6	The toy is subjected to voltage dips and interruptions in accordance with EN 61000-4-11.	Me Me M	N	
X WALTEX	The durations specified in EN 61000-4-11:2004, Table 1, are applied to each test level, the dips and interruptions being applied at zero crossing of the supply voltage.	White whitek whitek	N	
9.ZB.7	The toy is subjected to mains signals in accordance with EN 61000-4-13, test level class 2 being applicable.	TEX SITEX SITEX	NITEK WIND	



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t LEF	ITEK ALTE MITER	IEC 62115 – Attachment		TEX JEX
Clause	Requirement + Test	at let lifet while	Result - Remark	Verdict

ANNEX ZC	TOYS GENERATING ELECTROMAGNETIC FIELDS (EMF) (A12:2015)	t let let let	LIE <del>L</del>
EX WITEX	Toys with an integrated field source generating EMF comply with EN 62233:2008 with the following modifications.	MUST METER METER AND	N N
MALIEK WI	Toys without a motor, inductor or which only include passive electronic components, are considered to comply with this requirement without measurement.	NUTER WALTER WALTER	N EX
NALTEK WALT	The requirements do not apply to parts of toys consuming a current of 3 A or less.	TEL NITER WITER WAITER	Jack N.
TEX WALTER	The current is checked by measurement during the tests of EN 62115:2005, 9.3, unless the construction of the toy is such that the current cannot exceed 3 A.	t whitek whitek whitek a	IN JUN
I LIEN	Consuming current (A):	at let tet i	N.C
W. A	The tested toy also complies with the requirements of EN 62233:2008	mer mer on an	N
no no	Limit100%	Measured max.: %	nn-

===== End of Attachment ======



# Page 1 of 3 Photo Documentation



Model: IT3854



Photo 1



Photo 2

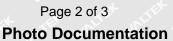






Photo 3



Photo 4

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#### **Photo Documentation**



Photo 5

===== End of Photos =====

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