

# Safety Test Report

Report No.: AGC06374170502ES01

PRODUCT DESIGNATION	:	Bluetooth earbud sports shape
BRAND NAME	A.	N/A
MODEL NAME	f	170011
CLIENT	:	
DATE OF ISSUE	in dias	Jun. 26, 2017
STANDARD(S)	:	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013
REPORT VERSION	:	V1.0

# Attestation of Global Compliance (Shenzhen) Co., Ltd.

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The Strategic and	TEST REPORT	C. N	N
2° C22 C23	EN 60950-1		
C Inform	nation technology equip Part 1: General require		
Report Reference No		CO SO	
Tested by (+ signature)	Johnson Ye	Fohnson 1 Ye	
Reviewed by (+ signature):	Jenny Li	Johnson i Ye Jenny li mette He	
Approved by (+signature):	Matte He (Authorized Officer)	mette He	
Date of issue:			
Contents:	Total 53 pages.		# 1
Testing laboratory			
Name:			
Address:	2/F., Building 2, No.1-No.4, C Gushu, Xixiang, Bao'an Distr	Chaxi Sanwei Technical Industrial Pa rict, Shenzhen, Guangdong, China	rk,
Testing location:	Same as above.		
Manufacturer	The Barrier The Barrier	C3-20 - C13-	-0
Name:			
Address	NOC IN		环境了
Factory			
Name:			
Address:			
Test specification		TA BANK B TO MAN	- 87
Standard	EN 60950-1:2006+A11:2009	+A1:2010+A12:2011+A2:2013	
Test procedure:	Type test		
Procedure deviation:	N/A		
Non-standard test method:	N/A		
Test Report Form/blank test report	- C	ACT NO	
Test Report Form No:	AGC60950A8		
Test Report Form(s) Originator:	AGC		
	AGC	T.R. M. B. C. R. R. M. M.	C

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Test item	
Product designation: Bluetoot	th earbud sports shape
Brand name N/A	
Test model 170011	
Series model N/A	
Rating(s): 5.0V	, 0.5A (Supplied by USB port)
Particulars	and the second s
Equipment mobility	: Movable hand-held Mtransportable
Connection to the mains	
	permanent connection
GU" P" P"	detachable power supply cord
	$\square$ not directly connected to the mains
Operating condition	
	☐rated operating/ resting time:
Access location	
	restricted access location
Over voltage category(OVC)	:: OVC I OVC II OVC III OVC IV Øother
Mains supply tolerance(%) or absolute mains su values	
Tested for IT power systems	:: 🗌 Yes 🛛 No
IT testing, phase-phase voltage(V)	
Class of Equipment	:: Class I Class II Class III
Considered current rating of protective device of the building installation (A)	
Pollution degree(PD)	::
Protection against ingress of water	:: IPX0
Altitude during operation (m)	:: 2000m
Altitude of test laboratory (m)	:: <500m
Mass of equipment (kg)	:: Less 1kg
Test case verdicts	
Test case does not apply to the test object	: N (/A)
Test item does meet the requirement	
Test item does not meet the requirement	: F (ail)
Testing	GC GC AN AN
Date of receipt of test item	: May 26, 2017
Date(s) of performance of test	: May 26 – Jun. 05 , 2017

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# Attachment Attachment A...... Attachment A...... Photos of product General remarks This report shall not be reproduced except in full without the written approval of the testing laboratory. The test results presented in this report relate only to the item tested. "(See remark #)" refers to a remark appended to the report. "(See appended table)" refers to a table appended to the report.

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

### Report Revise Record:

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	1	2017-06-26	Valid	Original report

### General product information

The product supplied by build-in lithium battery, and charged from Micro-B USB port, which is considered as moveable and Class III (supplied by SELV).

Instructions and equipment marking related to safety is applied in the language that is acceptable in the country in which the equipment is to be sold.

The product was submitted and tested for use at the manufacturer's recommended ambient temperature (Tma) of 40 °C.

### Summary of testing

The test item passed.

### Copy of marking plates

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

orts shape
CE
X
Made In China

### Remark:

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The CE marking and WEEE symbol (if any) should be at least 5mm and 7mm respectively in height.
 The markings and instructions are the minimum requirements required by safety standard. For final production samples, the additional markings which do not give rise to misunderstanding may be added.

3) As declared by the applicant, the importer (and manufacturer, if it is different)'s name, registered trade name or mark and the postal address will be marked on the products before being place on the market.

4) Marking on the packaging or in a document accompanying the electrical equipment is only acceptable if it is not possible to place such markings on the product.

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	EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict	
		F. Francisco the Theorem	F. John	
1	GENERAL	C <sup>N</sup> C <sup>N</sup>	Р	
The				
1.5	Components	1	Р	
1.5.1	General	E Barrow Barrow	Р	
ال د د	Comply with IEC 60950 or relevant component standard	Components which were found to affect safety aspects comply with the requirements of this standard or with the safety aspects of the relevant IEC/EN component standards. (see appended table 1.5.1)	J.P	
1.5.2	Evaluation and testing of components	Components which are certified to IEC/EN and/or national standards are used correctly within their ratings. Components not covered by IEC/EN standards are tested under the conditions present in the equipment.	P	
1.5.3	Thermal controls	No any thermal controls.	N	
1.5.4	Transformers	No transformers.	N	
1.5.5	Interconnecting cables	Cable to other unit is carrying only SELV voltages on and energy level below 240VA	Р	
1.5.6	Capacitors bridging insulation	No such capacitor.	Ν	
1.5.7	Resistors bridging insulation	No such components.	Ν	
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	A CLARKER	N	
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	NOC NO-	N	
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains antenna or coaxial cable	T. B. M. S. T. T. S.	N	
1.5.8	Components in equipment for IT power systems		N	
1.5.9	Surge suppressors	No such parts.	N	
1.5.9.1	General		N	
1.5.9.2	Protection of VDRs	13 a 1 a 2	Ν	
1.5.9.3	Bridging of functional insulation by a VDR		N	
1.5.9.4	Bridging of basic insulation by a VDR	NO F	N	
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR	THE THE	N	

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	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
1.6	Power interface	18	P		
1.6.1	AC power distribution systems	No direct mains connection.	N		
1.6.2	Input current	(See appended table 1.6.2)	Р		
1.6.3	Voltage limit of hand-held equipment		N		
1.6.4	Neutral conductor	Class III equipment, no neutral conductor.	N		

1.7	Marking and instructions		Р
1.7.1	Power rating	See below	Р
50	Rated voltage(s) or voltage range(s) (V)	5.0V	
「あっ	Symbol for nature of supply, for d.c. only		
F aller	Rated frequency or rated frequency range (Hz):	- GU	
Carlos and	Rated current (mA or A):	0.5A	
1.7.1.2	Identification markings	The Second Barrier	Р
1 1	Manufacturer's name or trademark or identification mark	See marking plate.	
T T Strater	Type/model or type reference:	See marking plate.	
Sec.	Symbol for Class II equipment only:	Class III equipment	
	Other marking and symbols	See marking plate.	
1.7.1.3	Use of graphical symbols	GUT NO	Р
1.7.2	Safety instructions and marking	Provided	Р
1.7.2.1	General	See below.	Р
1.7.2.2	Disconnect devices	No such devices	N
1.7.2.3	Overcurrent protective device		N
1.7.2.4	IT power distribution systems		N
1.7.2.5	Operator access with a tool	A THE A THE	N
1.7.2.6	Ozone	a their Chains	N
1.7.3	Short duty cycles	Equipment is designed for continuous operation.	N
1.7.4	Supply voltage adjustment:	No such devices used	Ń
	Methods and means of adjustment; reference to installation instructions	Carter CC	N
1.7.5	Power outlets on the equipment:		N
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference):		N
1.7.7	Wiring terminals	- Fallen	N

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
1.7.7.1	Protective earthing and bonding terminals:	Class III equipment, no protective earthing	N
1.7.7.2	Terminal for a.c. mains supply conductors	CP CP	N
1.7.7.3	Terminals for d.c. mains supply conductors		Ν
1.7.8	Controls and indicators		Р
1.7.8.1	Identification, location and marking:	It is obviously unnecessary.	N
1.7.8.2	Colours:	The colours used for LED are indicating function. No safety consideration.	P
1.7.8.3	Symbols according to IEC 60417		Ň
1.7.8.4	Markings using figures	Not applicable.	N
1.7.9	Isolation of multiple power sources:	No direct connection to mains supply	N
1.7.10	Thermostats and other regulating devices	No thermostats or other regulating devices used inside battery pack are not adjustable during normal use.	Ν
1.7.11	Durability	The marking withstands required tests.	Ρ
1.7.12	Removable parts	No such parts.	Ν
1.7.13	Replaceable batteries	Non-replaceable batteries	N
	Language(s):	The State of the S	
1.7.14	Equipment for restricted access locations:	C <sup>2</sup> - C <sup>2</sup>	N

2	PROTECTION FROM HAZARDS		P
2.1	Protection from electric shock and energy hazards	No hazardous parts in operator access areas.	Р
2.1.1	Protection in operator access areas		Р
2.1.1.1	Access to energized parts	No energized parts.	Р
7	Test by inspection	the state of the s	
N.	Test with test finger(Figure 2A)	3 M C 3	
1	Test with test pin (Figure 2B)		
632	Test with test probe (Figure 2C)		
2.1.1.2	Battery compartments:	A A A A A A A A A A A A A A A A A A A	N
2.1.1.3	Access to ELV wiring	and the second second	N
H. H.	Working voltage (Vpeak or Vrms); minimum distance (mm) through insulation	GC AC	
2.1.1.4	Access to hazardous voltage circuit wiring		N
2.1.1.5	Energy hazards:	No energy hazard in operator access area.	P

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	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
2.1.1.6	Manual controls	the second	N		
2.1.1.7	Discharge of capacitors in equipment	No primary circuit.	N		
1	Time-constant (s); measured voltage (V)				
2.1.1.8	Energy hazards – d.c. mains supply	Not directly connect to mains supply	N		
mation of G	a)Capacitor connected to the d.c. mains supply		N		
	b)Internal battery connected to the d.c. mains supply:	C. S. M. Barris C. C. Barris	N		
2.1.1.9	Audio amplifiers:	No any amplifiers	N		
2.1.2	Protection in service access areas		N		
2.1.3	Protection in restricted access locations	10 A 2 A 3	N		

2.2	SELV circuits		Р
2.2.1	General requirements	42.4V peak or 60VDC are not exceeded in SELV circuit under normal operation or single fault condition.	P C
2.2.2	Voltages under normal conditions (V)	Within SELV limits.	Р
2.2.3	Voltages under fault conditions (V)	Within SELV limits.	P
2.2.4	Connection of SELV circuits to other circuits:	The second second	N

2.3	TNV circuits		Ν
2.3.1	Limits	No TNV circuits.	N
GU.	Type of TNV circuits:	A BERT	N
2.3.2	Separation from other circuits and from accessible parts	CC* CC	N
2.3.2.1	General requirements		N
2.3.2.2	Protection by basic insulation	The state	Ν
2.3.2.3	Protection by earthing	The state	N
2.3.2.4	Protection by other constructions:		N N
2.3.3	Separation from hazardous voltages		N
.0	Insulation employed:		N
2.3.4	Connection of TNV circuits to other circuits	- C.ª	N
AL THE	Insulation employed:		Ν
2.3.5	Test for operating voltages generated externally		N

2.4

Limited current circuits

Ν

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>		the second second	
	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
2.4.1	General requirements	No limited current circuits to be evaluated.	N
2.4.2	Limit values		N
NR.	Frequency (Hz):		N
F allowed Com	Measured current (mA):		N
out all and a second	Measured voltage (V):	The second second	N
im.	Measured capacitance (nF or µF)	E Theorem C Barrier	N
2.4.3	Connection of limited current circuits to other circuits	De Nou N	N

2.5	Limited power sources	The state of the	N
环境	a)Inherently limited output	02	N
Francis al Colores	b)Impedance limited output	C F	Ν
S	c)Regulating network limited output under normal operating and single fault condition	A BE ENE	N
	d)Overcurrent protective device limited output	2 C2 V	N
中环境	Max. output voltage (V), max. output current (A), max. apparent power (VA):	AGU	
Bern Charles	Current rating of overcurrent protective device (A)	TA BE	N
	Use of integrated circuit (IC) current limited	53	N

2.6	Provisions for earthing and bonding		Ν
2.6.1	Protective earthing	Class III equipment.	Ν
2.6.2	Functional earthing		N
5 12	Use of symbol for functional earthing		N
2.6.3	Protective earthing and protective bonding conductors		N
2.6.3.1	General	T Barrow - B. Free	N
2.6.3.2	Size of protective earthing conductors	A GO N	N
- C *	Rated current (A), cross-sectional area (mm2), AWG		N
2.6.3.3	Size of protective bonding conductors	18 1 18 - 18 - 18 - 18 - 18 - 18 - 18 -	N
a th	Rated current (A), cross-sectional area (mm2), AWG:	CON NOCT	N
2.6.3.4	Resistance of earthing conductors and their terminations, resistance( $\Omega$ ), voltage drop(V),test current (A), duration(min):	A BAR BAR	N
2.6.3.5	Colour of insulation:	57 AV 50	N

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EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
2.6.4	Terminals	A REAL REAL	N	
2.6.4.1	General	The Second of the Second of the	N	
2.6.4.2	Protective earthing and bonding terminals		Ν	
Frank Contraction	Rated current (A), type and nominal thread diameter (mm):		N	
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors	E. H. Bannin - B. F. Samo	N	
2.6.5	Integrity of protective earthing	C S S	N	
2.6.5.1	Interconnection of equipment		N	
2.6.5.2	Components in protective earthing conductors and protective bonding conductors	BA BAR CE	N	
2.6.5.3	Disconnection of protective earth	C*	N	
2.6.5.4	Parts that can be removed by an operator	CO P	N	
2.6.5.5	Parts removed during servicing		N	
2.6.5.6	Corrosion resistance	The Transformer of Standard	N	
2.6.5.7	Screws for protective bonding		N	
2.6.5.8	Reliance on telecommunication network or cable distribution system	NOT IN	N	

2.7	Overcurrent and earth fault protection in prima	ry circuits	NG
2.7.1	Basic requirements	No primary circuits.	N
~.C <sup>1</sup>	Instructions when protection relies on building installation		N
2.7.2	Faults not covered in 5.3.7		N
2.7.3	Short-circuit backup protection		Ν
2.7.4	Number and location of protective devices:		N
2.7.5	Protection by several devices	The second	Ν
2.7.6	Warning to service personnel:	The Section of Section	N

2.8	Safety interlocks	G	N
2.8.1	General principles	No safety interlocks	N
2.8.2	Protection requirements	a the a the and	N
2.8.3	Inadvertent reactivation		Ν
2.8.4	Fail-safe operation	No.	N
~ (	Protection against extreme hazard		N
2.8.5	Moving parts	- F Standard B. Todaland	

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Clause	Requirement – Test	Result – Remark	Verdict		
2.8.6	Overriding	A REP AR	N		
2.8.7	Switches and relays	The second se	N		
2.8.7.1	Contact gaps (mm):		N		
2.8.7.2	Overload test	NOT NO	N		
2.8.7.3	Endurance test	The second second	N		
2.8.7.4	Electric strength test	The the state of t	N		
2.8.8	Mechanical actuators		N		

2.9	Electrical insulation		S P
2.9.1	Properties of insulating materials	1 1 1 C 2	Р
2.9.2	Humidity conditioning		N S
Franciscon and Colorado	Humidity (%),temperature (°C):	CO F	
2.9.3	Grade of insulation	Functional insulation.	P
2.9.4	Separation from hazardous voltages	The Same	N
	Method(s) used		

2.10	Clearances, creepage distances and distances	through insulation	N
2.10.1	General	Only SELV circuits inside the EUT. Functional insulation evaluated in accordance with clause 5.3.4. c).	z
Contacca.	Frequency		N
- C. <sup>3</sup>	Pollution degrees		N
0	Reduced values for functional insulation	K Barrow - S	N
5	Intervening unconnected conductive parts	CO*	N
F Indenstooner	Insulation with varying dimensions		N
Carlos .	Special separation requirements	The second se	N
1	Insulation in circuits generating starting pulses	The second	N
2.10.2	Determination of working voltage		N
2.10.3	Clearances		Ν
2.10.3.1	General		N
2.10.3.2	Mains transient voltages	ALL ALL CR	N
100	a)AC mains supply		N
Completion .	b)Earthed d.c. mains supplies		N
0	c)Unearthed d.c. main supplies		N
10	d)Battery operation	The Second States	N

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Clause	Requirement – Test	Result – Remark	Verdict
2.10.3.3	Clearances in primary circuits	A BALLAR	N
2.10.3.4	Clearances in secondary circuits	A Training and a training and	Ν
2.10.3.5	Clearances in circuits having starting pulses		N
2.10.3.6	Transients from a.c. mains supply		N
2.10.3.7	Transients from d.c. mains supply	1 下臣	N
2.10.3.8	Transients from telecommunication networks and cable distribution systems	C. S. H. Barrison C. Barrison	N
2.10.3.9	Measurement of transient voltage levels		N
- 1	a)Transients from a mains supply		N
	For a.c. mains supply	E TE	N
10.1	For d.c. mains supply		N
Falanton	b)Transients from		Ν
2.10.4	Creepage distances		N
2.10.4.1	General	The Barrier The Street	N
2.10.4.2	Material group and comparative tracking index	5. C. C. C.	₩ N
人物	CTI tests	CO F	N
2.10.4.3	Minimum creepage distances		N
2.10.5	Solid insulation	T. The Contract of F. Strate	N
2.10.5.1	General	C <sup>®</sup>	N
2.10.5.2	Distances through insulation		N
2.10.5.3	Insulation compound as solid insulation		N
2.10.5.4	Semiconductor device	B. B.	N
2.10.5.5	Cemented joints	Charles - Ci	N
2.10.5.6	Thin sheet material - General		N
2.10.5.7	Separable thin sheet material		N
	Number or layers(pcs)	the man of the second	N
2.10.5.8	Non-separable thin sheet material	- 3 <sup>3</sup>	N
2.10.5.9	Thin sheet material – standard test procedure		N
C	Electric strength test		N
2.10.5.10	Thin sheet material - alternative test procedure	A A A A A	N
	Electric strength test	and the second	N
2.10.5.11	Insulation in wound components		N
2.10.5.12	Wire in wound components		N
10	Working voltage:	The Bernard - The Stream	N
	a)Basic insulation not under stress:		N

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Clause	Requirement – Test	Result – Remark	Verdict
10	b)Basic, supplementary, reinforced insulation:	A B B	N
	c)Compliance with Annex U:	The second se	N
THE P	Two wires in contact inside wound component; angle between 45° and 90°	CCT NOCT	N
2.10.5.13	Wire with solvent-based enamel in wound components		N
10-	Electric strength test	a The Car	N
Succession of the second	Rountine test		N
2.10.5.14	Additional insulation in wound components		N
G.	Working voltage		N
	-basic insulation not under stress	- C*	N
The Base	-Supplementary, reinforced insulation		N
2.10.6	Construction of printed boards		N
2.10.6.1	Uncoated printed boards	AB AB	N
2.10.6.2	Coated printed boards	- 3 1 - 3 3 - 6	N
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	SC A	N
2.10.6.4	Insulation between conductors on different layers of a printed board	T. B. M. T. T. M.	N
- 1	Distance through insulation	C* - C*	N
- Hard	Number of insulation layers(pcs)		N
2.10.7	Component external terminations		N
2.10.8	Tests on coated printed boards and coated components	A.B. M. A.T. M. C.I.	N
2.10.8.1	Sample preparation and preliminary inspection		N
2.10.8.2	Thermal conditioning		N N
2.10.8.3	Electric strength test	The The	N
2.10.8.4	Abrasion resistance test	The state	N
2.10.9	Thermal cycling		N
2.10.10	Test for Pollution Degree 1 environment and insulating compound		N
2.10.11	Test for semiconductor devices and cemented joints	A CAL	N
2.10.12	Enclosed and sealed parts		N

3	WIRING, CO	ONNECTIONS A	AND SUPPLY			Р
3.1	General	臣刑	The Barrows	The states	- Barrow	Р

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	EN 60950	-1	
Clause	Requirement – Test	Result – Remark	Verdict
3.1.1	Current rating and overcurrent protection	Adequate cross sectional areas on internal wiring. No internal wire for primary power distribution.	P
3.1.2	Protection against mechanical damage	Wires do not touch sharp edges that could damage the insulation and cause hazard.	Р
3.1.3	Securing of internal wiring	Internal wiring is reliable secured	Р
3.1.4	Insulation of conductors	The insulation of the individual conductors is suitable for the application and the working voltage.	P
3.1.5	Beads and ceramic insulators		N 🛸
3.1.6	Screws for electrical contact pressure		N
3.1.7	Insulating materials in electrical connections	The street Car	N
3.1.8	Self-tapping and spaced thread screws		N
3.1.9	Termination of conductors	NOV F	Ν
	10 N pull test		Ν
3.1.10	Sleeving on wiring	The The Same	N

3.2	Connection to a mains supply		N
3.2.1	Means of connection	Class III equipment	N
3.2.1.1	Connection to an a.c. mains supply	The state of the s	Ν
3.2.1.2	Connection to a d.c. mains supply	CO CO	N
3.2.2	Multiple supply connections	to the	Ν
3.2.3	Permanently connected equipment		N
0	Number of conductors, diameter (mm) of cable and conduits	State Carton Ca	
3.2.4	Appliance inlets		Ν
3.2.5	Power supply cords	1	N
3.2.5.1	AC power supply cords	E Barrow E Street	N
P	Туре	CC al	
~ <sup>3</sup>	Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG:		
3.2.5.2	DC power supply cords		N
3.2.6	Cord anchorages and strain relief	George Charles	Ν
RT	Mass of equipment (kg), pull (N)		
Come	Longitudinal displacement (mm):		
3.2.7	Protection against mechanical damage	THE THE	Ν
3.2.8	Cord guards	3. 5. 6.	N

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
S	D (mm); test mass (g):	AB B	
	Radius of curvature of cord (mm)	5 Transford 5 Transford	
3.2.9	Supply wiring space		Ν

3.3	Wiring terminals for connection of external condu	uctors	N
3.3.1	Wiring terminals	The Contraction of the State of Contraction	N
3.3.2	Connection of non-detachable power supply cords	A CONTRACT	Ν
3.3.3	Screw terminals		Ň
3.3.4	Conductor sizes to be connected		N
東海	Rated current (A), cord/cable type, cross-sectional area (mm <sup>2</sup> ):	C A A A A A A A A A A A A A A A A A A A	
3.3.5	Wiring terminal sizes		Ν
N	Rated current (A), type and nominal thread diameter (mm):	T. B. B.	
3.3.6	Wiring terminals design		N
3.3.7	Grouping of wiring terminals	NOT THE	N
3.3.8	Stranded wire	10 A	N

3.4	Disconnection from the mains supply	- C	C.O."	N
3.4.1	General requirement	Class III equipme	ent	N
3.4.2	Disconnect devices		長期	N
3.4.3	Permanently connected equipment	The Balling	T. F. Schercon	N
3.4.4	Parts which remain energized	Sec. C	P	N
3.4.5	Switches in flexible cords	2		N
3.4.6	Single-phase equipment and d.c. equipment		-Th	N
3.4.7	Three-phase equipment	THE BE	The Francis	N
3.4.8	Switches as disconnect devices	The state	0.0	N
3.4.9	Plugs as disconnect devices		No.	N
3.4.10	Interconnected equipment		11	N
3.4.11	Multiple power sources	10000	The Bank	N

3.5	Interconnection of equipment	SC AN	Р
3.5.1	General requirements		P
3.5.2	Types of interconnection circuits	SELV circuit only.	Р
3.5.3	ELV circuits as interconnection circuits	No ELV interconnections.	N

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Clause	Requirement – Test	Result – Remark	Verdict
3.5.4	Data ports for additional equipment		N
		The Second States	Frai Class
4	PHYSICAL REQUIREMENTS		Р
4.1	Stability	NOT NO	Ν
alon d.G.	Angle of 10°	The second second	N
	Test: force (N):	The Barrier and Barrier	N
1 TH.	A The State of State		5
4.2	Mechanical strength		Р
4.2.1	General	See below	м́Р
<u> </u>	Rack-mounted equipment.	18	N
4.2.2	Steady force test, 10 N		N
4.2.3	Steady force test, 30 N	NOV P	Ν
4.2.4	Steady force test, 250 N	250N applied to outer enclosure. No energy or other hazards.	Р
4.2.5	Impact test	States - Bins - C	◯ N
15.	Fall test		Ν
- F Johnson	Swing test		1 N
4.2.6	Drop test; height(m):	1m; No damage of the enclosure, no energy hazards or damage to enclosure integration after the test.	P
4.2.7	Stress relief test	70°C, 7hours, no hazard.	Р
4.2.8	Cathode ray tubes	No cathode ray tube.	N
GO.	Picture tube separately certified	the set of the set	Ν
4.2.9	High pressure lamps	No high pressure lamp	N
4.2.10	Wall or ceiling mounted equipment; force (N):		Ν

4.3	Design and construction	B. B. F. Marco	Р
4.3.1	Edges and corners	Edges and corners are rounded.	Р
4.3.2	Handles and manual controls; force (N)		N
4.3.3	Adjustable controls	No such adjustable control.	N
4.3.4	Securing of parts	No loosening of parts is likely to occur.	Р
4.3.5	Connection of plugs and sockets	IEC60083 and IEC60320 connectors are not used in equipment.	P
4.3.6	Direct plug-in equipment	Not direct plug-in equipment.	Ν
	Torque:	THE THE	Ν

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Clause	Requirement – Test	Result – Remark	Verdict		
No	Compliance with the relevant mains plug standard	THE REP.	N		
4.3.7	Heating elements in earthed equipment	No heating elements.	N		
4.3.8	Batteries		Р		
Frank Connect	-Overcharging of a rechargeable battery	(see appended table 4.3.8)	P		
	-Unintentional charging of a non-rechargeable battery	Rechargeable battery	N		
3	-Reverse charging of a rechargeable battery	Battery pack polarity cannot be reversed.	N		
- 82	-Excessive discharging rate for any battery	(see appended table 4.3.8)	P		
4.3.9	Oil and grease	No Oil and grease.	N		
4.3.10	Dust, powders, liquids and gases	Equipment in intended use not considered to be exposed to these.	N		
4.3.11	Containers for liquids or gases	No containers for liquids or gases	Ν		
4.3.12	Flammable liquids:	The equipment does not contain flammable liquid.	N		
	Quantity of liquid (I)	at the attended to be a set of the attended to be attended to be a set of the attended to be attended to be a set of the attended to be a set	◯ N		
10	Flash point (°C):	- GU F	N		
4.3.13	Radiation; type of radiation:		🏇 P		
4.3.13.1	General		P		
4.3.13.2	Ionizing radiation	No ionizing radiation	N		
The second	Measured radiation (pA/kg)	GUT NO			
	Measured high-voltage (kV)				
C.C	Measured focus voltage (kV):	the second second			
	CRT markings				
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No ultraviolet radiation	N		
The science	Part, property, retention after test, flammability classification		N		
4.3.13.4	Human exposure to ultraviolet (UV) radiation:	The Barnes - States	N		
4.3.13.5	Lasers (including laser diodes) and LEDs	Indicating LED only.	Р		
4.3.13.5.1	Lasers (including laser diodes)		N		
C M	Laser class				
4.3.13.5.2	Light emitting diodes (LEDs)	1 4 4 A	Р		
4.3.13.6	Other types		N		

4.4	Protection against hazardous moving parts		N
4.4.1	General	No hazardous moving parts.	N

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Clause	Requirement – Test	Result – Remark	Verdict
4.4.2	Protection in operator access areas	1 B	N
	Household and home/office document/media shredders	State Caller	N
4.4.3	Protection in restricted access locations		N
4.4.4	Protection in service access areas	A B	N
4.4.5	Protection against moving fan blades	the man of the second of the	N
4.4.5.1	General	Carlos Carlos	N
200 plant	Not considered to cause pain or injury. a):		N
- 12	Is considered to cause pain, not injury. b):		N
3	Considered to cause injury. c):	E A E	N
4.4.5.2	Protection for users	- 5 Jun - 60	NC
F Johnston	Use of symbol or warning:		N
4.4.5.3	Protection for service persons		N
	Use of symbol or warning:	A BERNER AND	N

4.5	Thermal requirements		Р
4.5.1	General		P
4.5.2	Temperature tests	(see appended table 4.5)	Р
	Normal load condition per Annex L	C <sup>B</sup>	
4.5.3	Temperature limits for materials	(see appended table 4.5)	Р
4.5.4	Touch temperature limits	(see appended table 4.5)	Р
4.5.5	Resistance to abnormal heat	No thermoplastic parts on which parts at hazardous voltage are directly mounted.	N

4.6	Openings in enclosures			N
4.6.1	Top and side openings	10.10	- Francis	N
1	Dimensions (mm)	T T Strates Com	C Provide C	
4.6.2	Bottoms of fire enclosures			N
C.3	Construction of the bottom:			
4.6.3	Doors or covers in fire enclosures	AP IN	and the	N
4.6.4	Openings in transportable equipment	and Color	C.O.	N
4.6.4.1	Constructional design measures	CO.		N
al Con	Dimensions(mm):		14	N
4.6.4.2	Evaluation measures for larger openings	The Bank	The the same	N
4.6.4.3	Use of metallized parts	5 Friday - B	and a C	N

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
4.6.5	Adhesives for constructional purposes	A REAL REAL	Ν
	Conditioning temperature (°C), time (weeks):	The Francisco of Francisco	6 -

4.7	Resistance to fire		Р
4.7.1	Reducing the risk of ignition and spread of flame	Use of plastic with the required flammability classes.	Р
A THE	Method 1, selection and application of components wiring and materials	Method 1 used	P
13	Method 2, application of all of simulated fault condition tests		N
4.7.2	Conditions for a fire enclosure	E	P
4.7.2.1	Parts requiring a fire enclosure		P
4.7.2.2	Parts not requiring a fire enclosure	GO AN	N
4.7.3	Materials		Р
4.7.3.1	General	The Barrier of The Course	P
4.7.3.2	Materials for fire enclosures	See appended table 1.5.1	Р
4.7.3.3	Materials for components and other parts outside fire enclosures	AGO F	N
4.7.3.4	Materials for components and other parts inside fire enclosures	Internal components except small parts are V-2 or better.	Р
4.7.3.5	Materials for air filter assemblies	No air filter assemblies	N
4.7.3.6	Materials used in high-voltage components	No high voltage components.	Ν

5	ELECTRICAL REQUIREMENTS AND SIMULATED AB	NORMAL CONDITIONS	Р
5.1	Touch current and protective conductor current	C C	Ν
5.1.1	General	No. 10	N
5.1.2	Equipment under test (EUT)		N
5.1.2.1	Single connection to an a.c. mains supply	The State	N
5.1.2.2	Redundant multiple connections to an a.c. mains supply	NOC N	5 N
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply		N
5.1.3	Test circuit	C The Carl	N
5.1.4	Application of measuring instrument	-C* N	N
5.1.5	Test procedure		N
5.1.6	Test measurements	A BE IN BE	N
	Test voltage (V)	Stand Street	N

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Clause	Requirement – Test	Result – Remark	Verdict	
	Measured touch current (mA):	A REAL REAL	N	
	Max. allowed touch current (mA):	The second of the second of the	N	
	Measured protective conductor current (mA):		N	
The the	Max. allowed protective conductor current (mA) .:		N	
5.1.7	Equipment with touch current exceeding 3.5 mA :	THE THE	N	
5.1.7.1	General	The Benning and States	N	
5.1.7.2	Simultaneous multiple connections to the supply		N	
5.1.8	Touch currents to and from telecommunication networks and cable distribution systems and from telecommunication networks		N	
5.1.8.1	Limitation of the touch current to a telecommunication network and a cable distribution system	GC & BOCK	NC	
and and a second	Test voltage (V)		N	
S	Measured touch current (mA):	The Barrier Broken	N	
	Max. allowed touch current (mA)	5. C	ν	
5.1.8.2	Summation of touch currents from telecommunication networks	NOC LA	N	
Para and a second	a)EUT with earthed telecommunication ports:	TA BE	N	
	b)EUT whose telecommunication ports have no reference to protective earth	CR. CQ	N	

5.2	Electric strength		N
5.2.1	General	Class III equipment	N
5.2.2	Test procedure		N

5.3	Abnormal operating and fault conditions		Р
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	.C
5.3.2	Motors		Ν
5.3.3	Transformers	No transformers	N
5.3.4	Functional insulation	: See appended table 5.3. Complies with c)	Р
5.3.5	Electromechanical components		N
5.3.6	Audio amplifiers in ITE		N
5.3.7	Simulation of faults	Result see appended table 5.3.	Р 🐗
5.3.8	Unattended equipment	The amount of the amount	N

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Clause	Requirement – Test	Result – Remark	Verdict
5.3.9	Compliance criteria for abnormal operating and fault conditions	No flame emitted, no molten material emitted, no deformation of enclosure	Р
5.3.9.1	During the tests	No hazards.	Р
5.3.9.2	After the tests	No fire, no danger.	Р
auton of C		1 ( B	ance .

6	CONNECTION TO TELECOMMUNICATION NETWORKS	N
6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	
6.1.1	Protection from hazardous voltages	
6.1.2	Separation of the telecommunication network from earth	
6.1.2.1	Requirements	NC
F. Same	Test voltage (V)	
Angente .	Current in the test circuit (mA):	
6.1.2.2	Exclusions	N

6.2	Protection of equipment users from overvoltage	es on telecommunication networks	Ν
6.2.1	Separation requirements		N
6.2.2	Electric strength test procedure	The second of the second	Ν
6.2.2.1	Impulse test	C <sup>3</sup>	N
6.2.2.2	Steady-state test		Ν
6.2.2.3	Compliance criteria		N

6.3	Protection of the telecommunication wiring system	n from overheating	N
The	Max. output current (A)		
station of Car	Current limiting method		

7 CONNECTION TO CABLE DISTRIBUTION SYSTEMS		MS	N N
7.1	General		
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	A STAR CO	N
7.3	Protection of equipment users from overvoltages on the cable distribution system	NOC AV	N
7.4	Insulation between primary circuits and cable distribution systems	THE BEACH	N

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	E	EN 60950-1	
Clause	Requirement – Test	Result – Remark	Verdict
7.4.1	General		N
7.4.2	Voltage surge test	The second second	N
7.4.3	Impulse test		N

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EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
A	ANNEX A, TESTS FOR RESISTANCE TO HEAT	AND FIRE	N
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)		
A.1.1	Samples:		
Franci Global	Wall thickness (mm):		
A.1.2	Conditioning of samples; temperature (°C)::	the man the stand	N
A.1.3	Mounting of samples:	G Starter	N
A.1.4	Test flame (see IEC 60695-11-3)	C <sup>M</sup>	N
- 87	Flame A, B, C or D:		
A.1.5	Test procedure	5 5 5 5	N
A.1.6	Compliance criteria	Sec. C.C.	Ν
F John Con	Sample 1 burning time (s):		
and all a	Sample 2 burning time (s):		
N.C	Sample 3 burning time (s):	The Barrier Barrier	
A.2	Flammability test for fire enclosures of movable ec exceeding 18 kg, and for material and component 4.7.3.2 and 4.7.3.4)		N
A.2.1	Samples, material:		
0	Wall thickness (mm):		
A.2.2	Conditioning of samples	C C C	N
A.2.3	Mounting of samples:		Ν
A.2.4	Test flame (see IEC 60695-11-4)		N
G	Flame A, B or C:	The Barrier of The Street of Street	
A.2.5	Test procedure	C C C C C	N
A.2.6	Compliance criteria		Ν
station "	Sample 1 burning time (s):		
1	Sample 2 burning time (s):	5 B. 5 B.	
	Sample 3 burning time (s):		
A.2.7	Alternative test acc. To IEC 60695-2-2, cl. 4 and 8		N
30	Sample 1 burning time (s):	· B	
	Sample 2 burning time (s):	- B - C - C -	
B	Sample 3 burning time (s):		
A.3	Hot flaming oil test (see 4.6.2)		N
A.3.1	Mounting of samples	The Part of the Pa	N
A.3.2	Test procedure	The state of the s	N

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Clause	Requirement – Test	Result – Remark	Verdict
A.3.3	Compliance criterion	A REAL REAL	N
		The Frank Contract of The Strand Contract	Francisco -
B	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)		N
B.1	General requirements		N
	Position:	THE THE	
-10	Manufacturer:	a film a G	
Star Star			

Mr. J	Manufacturer:	C.C.	
Constant	Туре:		
- 12	Rated values		
B.2	Test conditions		N
B.3	Maximum temperatures		NG
B.4	Running overload test		Ν
B.5	Locked-rotor overload test		N
~	Test duration (days)	The Barrier Barrier	
	Electric strength test: test voltage (V):	13. C.3.	
B.6	Running overload test for d.c. motors in secondary circuits	AGO AN	N
B.6.1	General	TA BE	N
B.6.2	Test procedure	State China	N
B.6.3	Alternative test procedure		Ν
B.6.4	Electric strength test; test voltage (V)		Ν
B.7	Locked-rotor overload test for d.c. motors in second	dary circuits	N
B.7.1	Test procedure	T. S. S. S. C.	N
B.7.2	Alternative test procedure; test time (h):		N
B.7.3	Electric strength test		
B.8	Test for motors with capacitors	THE TANK	N
B.9	Test for three-phase motors	The Part	N
B.10	Test for series motors		<b>N</b>
- 18	Operating voltage (V):		

С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		
AR TH	Position:	No transformers	
sid Company	Manufacturer:	No. P	
	Туре:		
	Rated values:	- Frank	

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 Clause
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 Result – Remark
 Verdict

 Method of protection
 - - - 

 C.1
 Overload test
 N
 N

 C.2
 Insulation
 N
 N

 Protection from displacement of windings
 N
 N

D	ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)	
D.1	Measuring instrument	G N
D.2	Alternative measuring instrument	N

E	ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)			N	
5 B	The Bar	The Benning	The state	CALL SO	
Francis	ANNEX F, MEASUR (see 2.10)	EMENT OF CLEA	RANCES AND C	REEPAGE DISTANCES	N

G	ANNEX G, ALTERNATIVE METHOD FOR DETER	MINING MINIMUM CLEARANCES	N
G.1	Clearances		N
G.1.1	General		N
G.1.2	Summary of the procedure for determining minimum clearances	- B.T. Market P.T.	N
G.2	Determination of mains transient voltage (V):	GOT NO	N
G.2.1	AC mains supply		N
G.2.2	DC mains supply	A MARTINE AND	N
G.2.3	Unearthed DC mains supply:	The start of	N
G.2.4	Battery operation:		N
G.3	Determination of telecommunication network transient voltage (V)		N
G.4	Determination of required withstand voltage (V) . :	THE STOR	Ν
G.4.1	Mains transients and internal repetitive peaks :	a start of a	C N
G.4.2	Transients from telecommunication networks :	C N N	N
G.4.3	Combination of transients		N
G.4.4	Transients from cable distribution systems	A B A A A A	N
G.5	Measurement of transient levels (V):		N
Compland	a) Transients from a mains supply	SC P	N
	For an a.c. mains supply		N
N	For a d.c. mains supply	The Second of The Second	N
	b) Transients from a telecommunication network	A CAN	N

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
G.6	Determination of minimum clearances:	the the	N
		The Second of Th	Frank Contract
н	ANNEX H, IONIZING RADIATION (see 4.3.13)		N
- The ter	C C C		-01
Junde	ANNEX J, TABLE OF ELECTROCHEMICAL PO	TENTIALS (see 2.6.5.6)	N
	Metal used:	The Barrier B. France	
R. TH	A The State of State		60
к	ANNEX K, THERMAL CONTROLS (see 1.5.3 an	d 5.3.7)	N 🔬
K.1	Making and breaking capacity		Ń
K.2	Thermostat reliability; operating voltage (V):	A BALL AND	N
K.3	Thermostat endurance test; operating voltage (V):	CC* NO	NO
K.4	Temperature limiter endurance; operating voltage (V):		N
K.5	Thermal cut-out reliability	a Friday - B. Friday	N
K.6	Stability of operation		Ν

L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.1)		
L.1	Typewriters	- City - Co	N
L.2	Adding machines and cash registers		Ν
L.3	Erasers		N
L.4	Pencil sharpeners	The Barrier	N
L.5	Duplicators and copy machines	a City of C	N
L.6	Motor-operated files		N
L.7	Other business equipment		Р

М	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)		
M.1	Introduction		N
M.2	Method A		N
M.3	Method B	A B A B A B A	N
M.3.1	Ringing signal	C3-100	N
M.3.1.1	Frequency (Hz):	CO P	
M.3.1.2	Voltage (V):		
M.3.1.3	Cadence; time (s), voltage (V):	T. The advantage of the second	
M.3.1.4	Single fault current (mA):		

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	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
M.3.2	Tripping device and monitoring voltage:	182 182	N		
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	Barris C.B. S. Marco	N		
M.3.2.2	Tripping device		N		
M.3.2.3	Monitoring voltage (V):		N		

N	ANNEX N, IMPULSE TEST GENERATORS (see 2.10.3.4, 6.2.2.1, 7.3.2 and clause G.5)		GN
N.1	ITU-T impulse test generators	GY F	N
N.2	IEC 60065 impulse test generator		N

ANNEX P, NORMATIVE REFERENCES

Ρ

Q	ANNEX Q, Voltage dependent resistors (VDRS) (see 1.	.5.9.1)	N
N.	-Preferred climatic categories:	Sound B Fredom	N
	-Maximum continuous voltage:		N
4	-Combination pulse current:		🦔 N
8	Body of the VDR Test according to IEC 60695- 11-5	T. H. Hanning T. F.	N
E. The	Body of the VDR. Flammability class of material (min V-1):	C <sup>r</sup> CC <sup>r</sup>	N

R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QU PROGRAMMES	JALITY CONTROL	N
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6)	NOC NOC	N
R.2	Reduced clearances (see 2.10.3)	The second	N

S	ANNEX S, PROCEDURE FOR IMPULSE TESTI	NG (see 6.2.2.3)	C N
S.1	Test equipment	- C - E	N
S.2	Test procedure		N
S.3	Examples of waveforms during impulse testing	A BAR AND	N

Tarraharta	ANNEX T, GUIDANCE ON PROTECTION AGAI	NST INGRESS OF WAT	ER	Ν
Clark Contraction	(see 1.1.2)		1	

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		EN 60950-1	
Clause	Requirement – Test	Result – Remark	Verdict
	ANNEX U, INSULATED WINDING INSULATION (see 2.10.5.4)	WIRES FOR USE WITHOUT INTERLEAVED	N

V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (	see 1.6.1)	N	Ν
V.1	Introduction		A A	Ν
V.2	TN power distribution systems	14 11	T F Marine	Ν

W	ANNEX W, SUMMATION OF TOUCH CURRENTS			N
W.1	Touch current from electronic circuits		- 01	Ν
W.1.2	Earthed circuits	R. The	the state of the	Ν
W.2	Interconnection of several equipments	and a start of the	C.O."	Ν
W.2.1	Isolation	CO"		Ν
W.2.2	Common return, isolated from earth		115	Ν
W.2.3	Common return, connected to protective earth	The Ballion	The Alternation	Ν

X	ANNEX X, MAXIMUM HEATING EFFECT IN TRA C.1)	NSFORMER TESTS (see clause	N
X.1	Determination of maximum input current	THE	Ν
X.2	Overload test procedure	- 3	Ν

Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)		Ν
Y.1	Test apparatus:	- # · · · ·	Ν
Y.2	Mounting of test samples	The Barrow C	Ν
Y.3	Carbon-arc light-exposure apparatus:		Ν
Y.4	Xenon-arc light exposure apparatus::		Ν

Z	ANNEX Z, OVERVOLTAGE CATEGORIES(see2.10.3.2 and Clause G.2)					N
	The Benning	E The Comment	- Barrow allow	C \$	0	S

 BB
 ANNEX BB, CHANGES IN THE SECOND EDITION
 - 

 CC
 ANNEX CC, Evaluation of integrated circuit (IC) circuit limiters
 N

 CC.1
 General
 N

ANNEX AA, MANDREL TEST (see 2.10.5.8)

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Test program 1.....

AA

CC.2

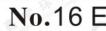


EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
CC.3	Test program 2	A BE AB	Ν
CC.4	Test program 3:	The Second States	Ν
CC.5	Compliance:		Ν

DD	ANNEX DD, requirements for the mounting means of rack-mounted equipment		Ν
DD.1	General	The the second second	Ν
DD.2	Mechanical strength test, variable N:		Ν
DD.3	Mechanical strength test, 250N, including end stops		Ν
DD.4	Compliance:	E AB	Ν

EE	ANNEX EE, Household and home/office docume	ent/media shredders	Ν
EE.1	General		Ν
EE.2	Marking and instructions	The Real Providence	Ν
	Use of markings or symbols	12 C2 \	Ν
T. Th	Information of user instructions, maintenance and/or servicing instructions:	NOC IN	Ν
EE.3	Compliance:	THE T	Ν
EE.4	Disconnection of power to hazardous moving parts	CORD CORD	Ν
C ALACO	Use of markings or symbols:		Ν
EE.5	Protection against hazardous moving parts	1	Ν
0	Test with test finger (figure 2A)	The Barrier and Franking	Ν
,	Test with wedge probe (figure EE1 and EE2):	CIE CO	Ν

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			E	EN 60950-1			
Clause	Requirem	nent – Test			Res	ult – Remark	Verdict
EN	60950-1:20	06/A11:2009/A	1:2010/A12:20	)11/A2:2013 – (	CENELEC CO	MMON MODIFICA	TIONS
		subclauses, no )-1 and it's ame		I figures which a refixed "Z"	are additional t	o those in	F. C.
Contents (A2:2013)	Annex ZA Annex ZB	c 8 (normative)	Normative references or responding Special nation	rences to intern European publi al conditions ELEC code desi	cations		P
General		the —countryll to the following		eference docum	ent (IEC 6095	0-1:2005)	Р
	1.4.8	Note 2	1.5.1	Note 2 & 3	1.5.7.1	Note	The B
	1.5.8	Note 2	1.5.9.4	Note	1.7.2.1	Note 4, 5 & 6	Franciscon C.
	2.2.3	Note	2.2.4	Note	2.3.2	Note	-
	2.3.2.1	Note 2	2.3.4	Note 2	2.6.3.3	Note 2 & 3	
	2.7.1	Note	2.10.3.2	Note 2	2.10.5.13	Note 3	22
	3.2.1.1	Note	3.2.4	Note 3	2.5.1	Note 2	c 22
	4.3.6	Note 1 & 2	4.7	Note 4	4.7.2.2	Note	30
	4.7.3.1	Note 2	5.1.7.1	Note 3 & 4	5.3.7	Note 1	
	6	Note 2 & 5	6.1.2.1	Note 2	6.1.2.2	Note	No. The
	6.2.2	Note	6.2.2.1	Note 2	6.2.2.2	Note	and Corner
	7.1	Note 3	7.2	Note	7.3	Note 1 & 2	~C
	G.2.1	Note 2	Annex H	Note 2			
General A1:2010)		the "country" n to the following Note		erence docume 6.1.2.1	nt (IEC 60950- Note 2	1:2005/A1:2010)	P
	6.2.2.1	Note 2		EE.3	Note 2		Alles and
General A2:2013)	Delete all according 2.7.1 6.2.2.	the "country" n to the following Note * Note	g list:	and the second s	nt (IEC 60950- Note 2	1:2005/A2:2013) d.	P
I.1.1 A1:2010)	Replace t NOTE 3 Th multimedia	he text of NOT	E 3 by the follo of EN 60065 ma IEC Guide 112,	owing. Iy also be used to	o meet safety rec	G 3	10 m

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	EN 60950-1		F
Clause	Requirement – Test	Result – Remark	Verdict
1.3.Z1	Add the following subclause: 1.3.Z1 Exposure to excessive sound pressure The apparatus shall be so designed and constructed as to present no danger when used for its intended purpose, either in normal operating conditions or under fault conditions, particularly providing protection against exposure to excessive sound pressures from headphones or earphones. NOTE Z1 A new method of measurement is described in EN 50332-1, Sound system equipment: Headphones and earphones associated with portable audio	CALLAR AGC	5 <sup>5</sup> P
	equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 1: General method for "one package equipment", and in EN 50332-2, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 2: Guidelines to associate sets with headphones coming from different manufacturers.	AC ACC	E H H
(A12:2011)	In EN 60950-1:2006/A12:2011 Delete the addition of 1.3.Z1 / EN 60950-1:2006 Delete the definition 1.2.3.Z1 / EN 60950-1:2006 /A1:2010	C 3 3 M	<mark>уС</mark> Р
1.5.1 (Added info*)	Add the following NOTE: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2002/95/EC. New Directive 2011/65/11 *	L. M. M. C. S. M.	N
1.7.2.1 (A1:2010)	In addition, for a PORTABLE SOUND SYSTEM, the instructions shall include a warning that excessive sound pressure from earphones and headphones can cause hearing loss.	Noc	N
1.7.2.1 (A12.2011)	In EN 60950-1:2006/A12:2011 Delete NOTE Z1 and the addition for Portable Sound System. Add the following clause and annex to the existing standard and amendments.	SC & THE SCC	Р
Unstation of	Zx Protection against excessive sound pressure from person	nal music players	Berner
	<b>Zx.1 General</b> This sub-clause specifies requirements for protection against excessive sound pressure from personal music players that are closely coupled to the ear. It also specifies requirements for earphones and headphones intended for use with personal music players. A personal music player is a portable equipment for personal	ACCES	GCP
	<ul> <li>use, that:</li> <li>is designed to allow the user to listen to recorded or broadcast sound or video; and</li> <li>primarily uses headphones or earphones that can be worn in or on or around the ears;</li> <li>allows the user to walk around while in use.</li> </ul>	A STAND	PC 3.

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EN 60950-1					
Clause	Requirement – Test	Result – Remark	Verdict		
A.	NOTE 1 Examples are hand-held or body-worn portable CD players, MP3 audio players, mobile phones with MP3 type features, PDA's or similar equipment.	C. S. T. H. B. B.	P		
	A personal music player and earphones or headphones intended to be used with personal music players shall comply with the requirements of this sub-clause.	C A AGO			
	The requirements in this sub-clause are valid for music or video mode only.	C.B.F. St.	-C*		
	<ul> <li>The requirements do not apply:</li> <li>while the personal music player is connected to an external amplifier; or</li> <li>while the headphones or earphones are not used.</li> <li>NOTE 2 An external amplifier is an amplifier which is not part of the personal music player or the listening device, but which is intended to play the music as a standalone music player.</li> </ul>	AGO A			
	<ul> <li>The requirements do not apply to: hearing aid equipment and professional equipment;</li> <li>NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment.</li> <li>analogue personal music players (personal music players</li> </ul>	GC & T. B. B.	C <sup>®.®</sup>		
	without any kind of digital processing of the sound signal) that are brought to the market before the end of 2015. NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.	AGC	AG		
	For equipment which is clearly designed or intended for use by young children, the limits of EN 71-1 apply.	T. T. K. Barn	The States		
	<ul> <li>Zx.2 Equipment requirements No safety provision is required for equipment that complies with the following: <ul> <li>equipment provided as a package (personal music player with its listening device), where the acoustic output LAeq,T is ≤ 85 dBA measured while playing the fixed "programme simulation noise" as described in EN 50332-1; and</li> <li>a personal music player provided with an analogue electrical output socket for a listening device, where the electrical output is ≤ 27 mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" as described in EN 50332-1. </li> </ul> </li> <li>NOTE 1 Wherever the term acoustic output is used in this clause, the 30 s A-weighted equivalent sound pressure level LAeq,T is</li> </ul>	AGC B. S. C.	CC T		

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a b	<ul> <li>Requirement – Test</li> <li>All other equipment shall: <ul> <li>protect the user from unintentional acoustic outputs</li> <li>exceeding those mentioned above; and</li> <li>have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the power is switched off; and</li> <li>provide a means to actively inform the user of the increased sound pressure when the equipment is operated with an acoustic output exceeding those mentioned above. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an acoustic output exceeding those mentioned above. The</li> </ul> </li> </ul>	Result – Remark	P
a	<ul> <li>a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and</li> <li>b) have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the power is switched off; and</li> <li>b) provide a means to actively inform the user of the increased sound pressure when the equipment is operated with an acoustic output exceeding those mentioned above. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an acoustic output exceeding those mentioned above. The</li> </ul>	Cart AGC	<b>B</b>
T. B. B. M.	<ul> <li>exceeding those mentioned above; and</li> <li>a) have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the power is switched off; and</li> <li>b) provide a means to actively inform the user of the increased sound pressure when the equipment is operated with an acoustic output exceeding those mentioned above. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an acoustic output exceeding those mentioned above. The</li> </ul>	CRATER AGO	P GC
F. W. B.	<ul> <li>a) have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the power is switched off; and</li> <li>b) provide a means to actively inform the user of the increased sound pressure when the equipment is operated with an acoustic output exceeding those mentioned above. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an acoustic output exceeding those mentioned above. The</li> </ul>	China AGG	GC <sup>2</sup>
F. W. B.	mentioned above, and automatically return to an output level not exceeding those mentioned above when the power is switched off; and ) provide a means to actively inform the user of the increased sound pressure when the equipment is operated with an acoustic output exceeding those mentioned above. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an acoustic output exceeding those mentioned above. The	ACC ACC	GC
- <b>C</b> 2	not exceeding those mentioned above when the power is switched off; and ) provide a means to actively inform the user of the increased sound pressure when the equipment is operated with an acoustic output exceeding those mentioned above. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an acoustic output exceeding those mentioned above. The	ACC ACC	GC
	switched off; and provide a means to actively inform the user of the increased sound pressure when the equipment is operated with an acoustic output exceeding those mentioned above. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an acoustic output exceeding those mentioned above. The	AGC R.T.A.	GC <sup>®</sup>
- <b>G</b>	e) provide a means to actively inform the user of the increased sound pressure when the equipment is operated with an acoustic output exceeding those mentioned above. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an acoustic output exceeding those mentioned above. The	AGC B TH	GC
- <b>G</b>	sound pressure when the equipment is operated with an acoustic output exceeding those mentioned above. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an acoustic output exceeding those mentioned above. The	NOCETH	GC
-C <sup>2-5</sup>	acoustic output exceeding those mentioned above. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an acoustic output exceeding those mentioned above. The	NOCE	GC*
.C <sup>2,5</sup>	means used shall be acknowledged by the user before activating a mode of operation which allows for an acoustic output exceeding those mentioned above. The	NGC -	60
-C <sup>2,5</sup>	activating a mode of operation which allows for an acoustic output exceeding those mentioned above. The	No. 1	
C**	output exceeding those mentioned above. The		A1
C <sup>®</sup>			1 1
		100-	The Berghan
	acknowledgement does not need to be repeated more than	1 Barris	F a Globa
	once every 20 h of cumulative listening time; and	a Walt	
15	NOTE 2 Examples of means include visual or audible signals.	in the	
The Stranger	Action from the user is always required.		
	NOTE 3 The 20 h listening time is the accumulative listening time,		
	independent how often and how long the personal music player	AT M	12
	has been switched off.	The The Barren	5. 3
	d) have a warning as specified in Zx.3; and	the second	- Ci
	e) not exceed the following:	C 3	
NZa W	1) equipment provided as a package (player with Its		
	istening device), the acoustic output shall be $\leq$ 100 dBA		100
	measured while playing the fixed "programme simulation	1	4 T. 1999
r	noise" described in EN 50332-1; and	The Barrow Th	and Control
	2) a personal music player provided with an analogue	F Jacob Torda	
e	electrical output socket for a listening device, the electrical	- Cit	< C1
	butput shall be $\leq$ 150 mV measured as described in EN 50332-		
	2, while playing the fixed "programme simulation noise"		
	described in EN 50332-1.		15
~ C	For music where the average sound pressure (long term	The the and	The of
	_Aeq,T) measured over the duration of the song is lower than	- Frank	The Friday
	he average produced by the programme simulation noise, the	C Bring C	Master
	warning does not need to be given as long as the average		
	sound pressure of the song is below the basic limit of 85 dBA.		
	n this case T becomes the duration of the song.		1999 July
	NOTE 4 Classical music typically has an average sound pressure	TT I	Contraction
	(long term LAeq,T) which is much lower than the average	E Total	- 1
	brogramme simulation noise. Therefore, if the player is capable to	- Cite	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	analyse the song and compare it with the programme simulation		
	noise, the warning does not need to be given as long as the		-
	average sound pressure of the song is below the basic limit of 85		a the
	dBA.	45. <sup>70</sup>	F LOWER CON
	For example, if the player is set with the programme simulation	The second second	A store
	noise to 85 dBA, but the average music level of the song is only	Stor of	1977 - C
	65 dBA, there is no need to give a warning or ask an		
	acknowledgement as long as the average sound level of the song		
	is not above the basic limit of 85 dBA.	Aller Aller	

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Clause	EN 60950-1	Desult Demeric	Verdiet
Clause	Requirement – Test	Result – Remark	Verdict
A F. F. F.	<ul> <li>Zx.3 Warning</li> <li>The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following:</li> <li>the symbol of Figure 1 with a minimum height of 5 mm; and</li> <li>the following wording, or similar:</li> </ul>	Car AGC	Р
E.P.	"To prevent possible hearing damage, do not listen at high volume levels for long periods."	SOC REAL	GC
~C*	Figure 1 – Warning label (IEC 60417-6044)		F. The Bernard
C IN	Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.	SCC <sup>3</sup>	NOC
Therease of	Zx.4 Requirements for listening devices (headphones and e	earphones)	Р
20	Zx.4.1 Wired listening devices with analogue input With 94 dBA sound pressure output LAeq,T, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be ≥ 75 mV.	CREE N	<b>C</b> N
B.F.F.	This requirement is applicable in any mode where the headphones can operate (active or passive), including any available setting (for example built-in volume level control).	E.E.B.B.	14.11 A
B. M.	NOTE The values of 94 dBA $-$ 75 mV correspond with 85dBA $-$ 27 mV and 100 dBA $-$ 150 mV.	SO	No
SC.	Zx.4.2 Wired listening devices with digital input With any playing device playing the fixed "programme simulation noise" described in EN 50332-1 (and respecting the digital interface standards, where a digital interface standard exists that specifies the equivalent acoustic level), the acoustic output LAeq,T of the listening device shall be ≤ 100 dBA.	Cart And A	Ν
A	This requirement is applicable in any mode where the headphones can operate, including any available setting (for example built-in volume level control, additional sound feature	A CARE	C.C.

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NOTE An example of a wired listening device with digital input is a USB headphone.

like equalization, etc.).

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EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
	<ul> <li>Zx.4.3 Wireless listening devices</li> <li>In wireless mode:</li> <li>with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and</li> <li>respecting the wireless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and</li> <li>with volume and sound settings in the listening device (for example built-in volume level control, additional sound feature like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the abovementioned programme simulation noise, the acoustic output LAeq,T of the listening device shall be ≤ 100 dBA.</li> </ul>		P GC	
	NOTE An example of a wireless listening device is a Bluetooth headphone.	T. T. C.	and a cal	
Bartin Station	<b>Zx.5 Measurement methods</b> Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable. Unless stated otherwise, the time interval T shall be 30 s.		P	
Part -	NOTE Test method for wireless equipment provided without listening device should be defined.	-CALL		
2.7.1	<ul> <li>Replace the subclause as follows:</li> <li>Basic requirements</li> <li>To protect against excessive current, short-circuits and earth faults in PRIMARY CIRCUITS, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):</li> </ul>		N	
	<ul> <li>a) except as detailed in b) and c), protective devices</li> <li>necessary to comply with the requirements of 5.3 shall be included as parts of the equipment;</li> </ul>	A TA IN THE R	T. T. B.	
F. H. B.	b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;	Chi AGO		
	c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.	AGC B T	GCN N	
	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMENT TYPE A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	A THE AGC	AG	
2.7.2	This subclause has been declared 'void'.	THE AREA	N	
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.	C3.3.	<b>S</b> CN	

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
3.2.5.1	Replace "60245 IEC 53" by "H05 RR-F"; "60227 IEC 52" by "H03 VV-F or H03 VVH2-F"; "60227 IEC 53" by "H05 VV-F or H05 VVH2-F2". In Table 3B, replace the first four lines by the following: Up to and including 6   0,75 <sup>a)</sup>	C <sup>2</sup> GC	F. H. B.
	Over 6 up to and including 10  (0,75) <sup>b)</sup> 1,0                     Over 10 up to and including 16  (1,0) <sup>c)</sup> 1,5		N
	In the conditions applicable to Table 3B delete the words "in some countries" in condition <sup>a)</sup> . In NOTE 1, applicable to Table 3B, delete the second sentence.	ACC - A	GC T
3.2.5.1 (A2:2013)	NOTE Z1 The harmonised code designations corresponding to the IEC cord types are given in Annex ZD	The second second	N
3.3.4	In Table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following:	NOC	N
	Over 10 up to and including 16   1,5 to 2,5   1,5 to 4   Delete the fifth line: conductor sizes for 13 to 16 A		1
4.3.13.6 (A1:2010)	Replace the existing NOTE by the following: NOTE Z1 Attention is drawn to: 1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and		N
	2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artifical optical radiation).	C.C.	0
۵.C <sup>®</sup>	Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC.		N
Annex H	Replace the last paragraph of this annex by: At any point 10 cm from the surface of the OPERATOR ACCESS AREA, the dose rate shall not exceed 1 µSv/h (0,1 mR/h) (see NOTE). Account is taken of the background level.	C <sup>2,2</sup> NC	N
Press Press	Replace the notes as follows: NOTE These values appear in Directive 96/29/Euratom. Delete NOTE 2.	E.P. C.E.T.F.	C*3
Bibliography	Additional EN standards.		Y

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### NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR **CORRESPONDING EUROPEAN PUBLICATIONS**

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
~0	ZB ANNEX (normative) SPECIAL NATIONAL CONI	DITIONS (EN)	5 B
1.2.4.1	In <b>Denmark</b> , certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets.	C*2 CC	N
1.2.13.14	In <b>Norway</b> and <b>Sweden</b> , for requirements see 1.7.2.1 and 7.3 of this annex.		N
1.5.7.1	In <b>Finland, Norway</b> and <b>Sweden</b> , resisters bridging BASIC INSULATION in CLASS I PLUGGABLE EQUIPMENT TYPE A must comply with the requirements in 1.5.7.1. In addition when a single resister is used, the resister must withstand the resister test in 1.5.7.2.	ACC B	<b>GCN</b>
1.5.8	In <b>Norway</b> , due to the IT power system used (see annex V, Figure V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V).	SC .	N
1.5.9.4	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , the third dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.		N
1.7.2.1	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet. The marking text in the applicable countries shall be as follows: In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan" In Norway: "Apparatet må tilkoples jordet stikkontakt"		
1.7.2.1	In Sweden: "Apparaten skall anslutas till jordat uttag"	5	N
(A11:2009)	In <b>Norway</b> and <b>Sweden</b> , the screen of the cable distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation need to be isolated from the screen of a cable distribution system.	S. C. C. S. T.	GC <sup>®</sup>
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by e.g. a retailer.		<b>王</b> 开唐7
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	ACC.	A

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Clause	EN 60950-1 Requirement – Test	Result – Remark	Verdict
Clause	ZB ANNEX (normative) SPECIAL NATIONAL CONE		Verdici
			A CONTRACT
	"Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing – and to a cable distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)."	Carin AGC	N L C
	NOTE In Norway, due to regulation for installations of cable distribution systems, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.		E. B. B.
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	NOO .	NO
	"Utstyr som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av utstyret til kabel-TV nettet installeres en galvanisk isolator mellom utstyret og kabel- TV nettet."	A CRAFT BURN	C
	Translation to Swedish:	GY P	
B. B.	"Utrustning som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medfőra risk főr brand. Főr att undvika detta skall vid anslutning av utrustningen till kabel-TV nät alvanisk isolator finnas mellan utrustningen och kabel-TV nätet."	L. H. M. M. C. L. H.	₽. <sup>m</sup>
1.7.2.1 (A2:2013)	<ul> <li>In Denmark, CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet.</li> <li>The marking text in Denmark shall be as follows: In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord."</li> </ul>		N GC
1.7.5	In <b>Denmark</b> , socket-outlets for providing power to other equipment shall be in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a, when used on Class I equipment. For STATIONARY EQUIPMENT the socket-outlet shall be in accordance with Standard Sheet DK 1-1b or DK 1-5a. For <b>CLASS II EQUIPMENT</b> the socket outlet shall be in accordance with Standard Sheet DKA 1-4a.	ACC ACC	N

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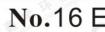
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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
<u> </u>	ZB ANNEX (normative) SPECIAL NATIONAL CON	IDITIONS (EN)	56 B
1.7.5 (A2:2013)	In <b>Denmark</b> , socket-outlets for providing power to other equipment shall be in accordance with the DS 60884-2- D1:2011. For class I equipment the following Standard Sheets are applicable: DK 1-3a, DK 1-1c, DK 1-1d, DK 1-5a or DK 1-7a, with the exception for STATIONARY EQUIPMENT where the socket-outlets shall be in accordance with Standard Sheet DK 1-1b, DK 1-1c, DK 1-1d or DK 1-5a. Socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance with DS 60884-2-D1 standard sheet DKA 1-4a. Other current rating socket outlets shall be in compliance with by DS 60884- 2-D1 Standard Sheet DKA 1-3a or DKA 1-3b. Justification the Heavy Current Regulations, 6c	AGC	
2.2.4	In <b>Norway</b> , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.		N
2.3.2	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> there are additional requirements for the insulation. See 6.1.2.1 and 6.1.2.2 of this annex.	A BEAR	<b>N</b>
2.3.4	In <b>Norway</b> , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.	GU P	N
2.6.3.3	In the <b>United Kingdom</b> , the current rating of the circuit shall be taken as 13 A, not 16 A.	The Barrier and B	N
2.7.1	In the <b>United Kingdom</b> , to protect against excessive currents and short-circuits in the PRIMARY CIRCUIT of DIRECT PLUG-IN EQUIPMENT, tests according to 5.3 shall be conducted, using an external protective device rated 30 A or 32 A. If these tests fail, suitable protective devices shall be included as integral parts of the DIRECT PLUG-IN EQUIPMENT, so that the requirements of 5.3 are met.	AGC	N.S.
2.10.5.13	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , there are additional requirements for the insulation, see 6.1.2.1 and 6.1.2.2 of this annex.	60 - YO	N

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
~	ZB ANNEX (normative) SPECIAL NATIONAL CONI	DITIONS (EN)	5 B
3.2.1.1	In <b>Switzerland</b> , supply cords of equipment having a RATED CURRENT not exceeding 10 A shall be provided with a plug complying with SEV 1011 or IEC 60884-1 and one of the following dimension sheets: SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A SEV 6533-2.1991 Plug Type 11 L+N 250 V, 10 A SEV 6534-2.1991 Plug Type 12 L+N+PE 250 V, 10 A In general, EN 60309 applies for plugs for currents exceeding 10 A. However, a 16 A plug and socket-outlet system is being introduced in Switzerland, the plugs of which are according to	C B B C B C B C B C B C B C B C B C B C	SC 1
	the following dimension sheets, published in February 1998: SEV 5932-2.1998: Plug Type 25 , 3L+N+PE 230/400 V, 16 A SEV 5933-2.1998:Plug Type 21, L+N, 250 V, 16A SEV 5934-2.1998: Plug Type 23, L+N+PE 250 V, 16 A	SCI NCC	
3.2.1.1	In <b>Denmark</b> , supply cords of single-phase equipment having a rated current not exceeding13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	GCR. T. H. M.	N
	If poly-phase equipment and single-phase equipment having a RATED CURRENT exceeding 13 A is provided with a supply cord with a plug, this plug shall be in accordance with the Heavy Current Regulations, Section 107-2-D1 or EN 60309-2.	AGC	NO
3.2.1.1	In <b>Spain</b> , supply cords of single-phase equipment having a rated current not exceeding 10 A shall be provided with a plug according to UNE 20315:1994.	Cart Science	N
	Supply cords of single-phase equipment having a rated current not exceeding 2,5 A shall be provided with a plug according to UNE-EN 50075:1993.		H H
	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules, shall be provided with a plug in accordance with standard UNE 20315:1994.	AGC	GC
	If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.	S. B. C	B. San a contr

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
~	ZB ANNEX (normative) SPECIAL NATIONAL CONI	DITIONS (EN)	小型
3.2.1.1	In the <b>United Kingdom</b> , apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug, shall be fitted with a 'standard plug' in accordance with Statutory Instrument 1768:1994 - The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those regulations.		N
	NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	ACC I	, 60 ×
3.2.1.1	In <b>Ireland</b> , apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to I.S. 411 by means of that flexible cable or cord and plug, shall be fitted with a 13 A plug in accordance with Statutory Instrument 525:1997 - National Standards Authority of Ireland (section 28) (13 A Plugs and Conversion Adaptors for Domestic Use) Regulations 1997.	A BARA	N N
3.2.4	In Switzerland, for requirements see 3.2.1.1 of this annex.	F They can	N
3.2.5.1	In the <b>United Kingdom</b> , a power supply cord with conductor of 1,25 mm2 is allowed for equipment with a rated current over 10 A and up to and including 13 A.	GC P	N
3.3.4	In the <b>United Kingdom</b> , the range of conductor sizes of flexible cords to be accepted by terminals for equipment with a RATED CURRENT of over 10 A up to and including 13 A is:	L.H.B.A. C.L.S.P.	N
4.3.6	<ul> <li>1,25 mm<sup>2</sup> to 1,5 mm<sup>2</sup> nominal cross-sectional area.</li> <li>In the United Kingdom, the torque test is performed using a socket outlet complying with BS 1363 part 1:1995, including Amendment 1:1997 and Amendment 2:2003 and the plug part of DIRECT PLUG-IN EQUIPMENT shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16 and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.</li> </ul>	CR.T. A.C.	N
4.3.6	In <b>Ireland</b> , DIRECT PLUG-IN EQUIPMENT is known as plug similar devices. Such devices shall comply with Statutory Instrument 526:1997 - National Standards Authority of Ireland (Section 28) (Electrical plugs, plug similar devices and sockets for domestic use) Regulations, 1997.	ACC	N

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Requirement – Test		
	Result – Remark	Verdict
ZB ANNEX (normative) SPECIAL NATIONAL CONE	DITIONS (EN)	5
In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> TOUCH CURRENT measurement results exceeding 3,5 mA r.m.s. are permitted only for the following equipment:	Call NoC	N
is intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, for example, in a telecommunication centre; and		
has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR; and is provided with instructions for the installation of that conductor by a SERVICE PERSON;	ACC P	C TA BAN
STATIONARY PLUGGABLE EQUIPMENT TYPE B;     STATIONARY PERMANENTLY CONNECTED FOLIPMENT	S. S. C.	aler Ca
In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , add the following text between the first and second paragraph of the compliance	A	N
If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	The Forther Contract	-C*
- two layers of thin sheet material, each of which shall pass the electric strength test below, or	GC N	
- one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	THE T	E.P.
Alternatively for components, there is no distance through insulation requirements for the insulation consisting of an insulating compound completely filling the casing, so that CLEARANCES and CREEPAGE DISTANCES do not exist, if the component passes the electric strength test in accordance	AGC	AG
	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> TOUCH CURRENT measurement results exceeding 3,5 mA r.m.s. are permitted only for the following equipment: • STATIONARY PLUGGABLE EQUIPMENT TYPE A that is intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, for example, in a telecommunication centre; and has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR; and is provided with instructions for the installation of that conductor by a SERVICE PERSON; • STATIONARY PLUGGABLE EQUIPMENT TYPE B; • STATIONARY PLUGGABLE EQUIPMENT TYPE B; • STATIONARY PERMANENTLY CONNECTED EQUIPMENT. In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , add the following text between the first and second paragraph of the compliance clause: If this insulation is solid, including insulation forming part of a component, it shall at least consist of either - two layers of thin sheet material, each of which shall pass the electric strength test below, or - one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below. Alternatively for components, there is no distance through insulation requirements for the insulation consisting of an insulating compound completely filling the casing, so that CLEARANCES and CREEPAGE DISTANCES do not exist, if	In Finland, Norway and Sweden TOUCH CURRENT measurement results exceeding 3,5 mA r.m.s. are permitted only for the following equipment: • STATIONARY PLUGGABLE EQUIPMENT TYPE A that is intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, for example, in a telecommunication centre; and has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR; and is provided with instructions for the installation of that conductor by a SERVICE PERSON; • STATIONARY PLUGGABLE EQUIPMENT TYPE B; • STATIONARY PLUGGABLE EQUIPMENT TYPE B; • STATIONARY PERMANENTLY CONNECTED EQUIPMENT. In Finland, Norway and Sweden, add the following text between the first and second paragraph of the compliance clause: If this insulation is solid, including insulation forming part of a component, it shall at least consist of either - two layers of thin sheet material, each of which shall pass the electric strength test below, or - one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below. Alternatively for components, there is no distance through insulation requirements for the insulation consisting of an insulating compound completely filling the casing, so that CLEARANCES and CREEPAGE DISTANCES do not exist, if the component passes the electric strength test in accordance

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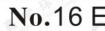
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Clause	Dequirement Test	Deput Dement	Vardiat
Jiause	Requirement – Test	Result – Remark	Verdict
	ZB ANNEX (normative) SPECIAL NATIONAL CONE	DITIONS (EN)	The second
	<ul> <li>passes the tests and inspection criteria of 2.10.11 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 2.10.10 shall be performed using 1,5 kV), and</li> <li>is subject to ROUTINE TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV.</li> </ul>	Call AGC	N
	It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b).	- B.F.	- C <sup>\$2</sup>
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	NO	0
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:		F. The Bern
	- the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in EN 60950-1:2006, 6.2.2.1;	AGC	Þ
	- the additional testing shall be performed on all the test specimens as described in EN 60384-14:	A THE	- 83
	- the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	GC R. S. A	30
6.1.2.2	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , the exclusions are applicable for PERMANENTLY CONNECTED EQUIPMENT, PLUGGABLE EQUIPMENT TYPE B and equipment intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR and is provided with instructions for the installation of that conductor by a SERVICE PERSON.	AGC S. A.	N N
7.2	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , for requirements see 6.1.2.1 and 6.1.2.2 of this annex. The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.	SC & DGC	N
7.3	In <b>Norway</b> and <b>Sweden</b> , for requirements see 1.2.13.14 and 1.7.2.1 of this annex.	E M E F	N
7.3	In Norway, for installation conditions see EN 60728-11:2005.		N

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1.5.1	TABLE: list of critical compon	ents			Р
Object/part no.	Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity
Battery	CC B CC	401020	3.7V,60mAh Max charging current: 90mA Max discharging current: 90mA	IEC62133	Issued by AGC Report No.: A001R2017 0515069
Internal wire	e Interchangeable	Interchangeable	32AWG, 80°C	UL758	UL E256123
Speaker	Interchangeable	Interchangeable	32ohm,5mW	EN60950-1	Tested with appliance
PCB	Interchangeable	Interchangeable	V-1, 130°C	UL94, UL796	UL ZPMV2
Enclosure	CHI MEI CORPORATION	PC-122F	Min.0.88mm, V-0, 80°C	UL94	UL E56070

1.6.2	TABLE: e	electrical data (	in normal co	nditions)	The state	P
U (V)	I (A)	I rated (A)	P (W)	Fuse #	I fuse (A)	Condition/status
3.7	0.017	The state	0.063	-0	- 1	Normal operation
5.0	0.035	0.5	0.175			Normal operation
Note(s):			the Th	· · ·	THE COLUMN	State of the of
B	The B	10 10 10 10	and Color	The second	200	CO NO

2.1.1.5c)1) TABLE:	max. V, A, VA test			N
Voltage (rated) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)
		And the state	C Email	C <sup>2</sup> -
Note(s):	The state	- G***	SU N	

2.1.1.5c)2) TABLE: stored energy	-111	18 TH	下也	р. / б.	Frank Contract	N
Capacitance C (µF)		Volta	ige U (V)		Energy	/ E (J)
S. Jacoberto C. Barreto	~ C ~	200			N	- 1
Note(s):	20		101:	The state		E The Constant

2.2	2.2 TABLE: evaluation of voltage limiting components in SELV circuits			
Component (measured between)		max. voltage (V) (I	normal operation)	Voltage Limiting
Componen	t (measured between)	Vpeak	Vd.c.	Components
		12 - 1 F. F.	- Franker	SOUT

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			1000				
Fault test per	formed on volta	age limiting com	ponents	Voltage me	asured (V) in S	ELV circuits (V	peak or V d.c.)
Benne	C.3.	C.B.	2	9			-
Note(s):					The the	The Barre	The Barrier
				1000	St. Glan	the martin	2 3 dom

2.5 TABLE: limited power source measured	surement	~GU	Sec.	N
Measured Uoc (V) with all load circuits	lsc	(A)	VA	
disconnected:	Meas.	Limit	Meas.	Limit
	a Th	E F Strate		
Note(s):	·*· - C	1		

2.10.2	TABLE: Working v	oltage measurement	THE T	N
Location		RMS voltage (V)	Peak voltage (V)	Comments
The Second	- Fallen	CO"	<u> </u>	
Note(s):	0 . 0			梅 一 寺 小

2.10.3 and 2.10.4 TABLE: clearance and creepage distance measurements							
Clearance distance c	e cl and creepage lcr at/of:	U p (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required dcr (mm)	dcr (mm)
		787	- 5	Berne	F. John	C. Barrow	
A. Th	大臣郎	The Strate	- Frank	C.C		60-	
Note(s):	a the co		2			- 101	

2.10.5	TABLE: distance through insulation	measurements	John Co	Sec. C	N
Distance thr	ough insulation di at/of:	U r.m.s. (V)	Test voltage (V)	Required di (mm)	di (mm)
Note(s):		The Manual	The Contract	C 3.	- Cit

4.3.8	TABLE: Batteries	- 60	Sec.		Р
The tests of not available	4.3.8 are applicable only	A TABER	P		
Is it possible	to install the battery in a	reverse pola	rity position?	Customized connect used for battery pack	N
d Globa	Non-rechargeable	e batteries	Rechargeable batterie	S	
2	Discharging	Uninten-	Charging	Discharging	Reverse Charging

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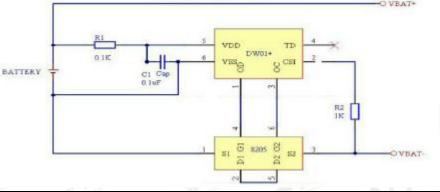
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	Meas. current	Manuf. Specs.	tional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf.S pecs.	Meas. current	Manuf. Specs.
Max. current during normal condition		<u>_</u>	-	35mA	90mA	17mA	90mA	÷	F. W. B.
Max. current during fault condition	-0	The state	D <sup>R-T.H</sup>	52mA	90mA	23mA	90mA	30	_ 7
Test results:	20	N	- TH		in.	THE AL		E TA B	Verdict
- Chemical leak	s		E The termine	不下格	olarca -	No			CP
- Explosion of tl	he battery	- 6.2	C.	B. Sand	c.G*	No	No		Р
- Emission of fla	ame or expu	Ision of mo	lten metal		6	No			S P
- Electric strength tests of equipment after completion of tests									N
Note(s):	st t	3	The the same	-	F. Journa	C		2	N

4.3.8 TABLE: Batteries	P
Battery category	.: Lithium-ion Polymer battery
Manufacturer	.: See table 1.5.1
Type/model	.: See table 1.5.1
Voltage, Capacity	.: See table 1.5.1
Circuit protection diagram	.: See below



MARKINGS AND INSTRUCTIONS (1.7.13)	
Location of replaceable battery	Non-replaceable battery
Language(s):	- The state of the
Close to the battery	
In the servicing instructions:	
In the operating instructions:	-
Note(s):	A STATE OF

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4.5	TABLE: maximum t	emperature	s C		GO.			Р
	Test voltage (V)				charge moo discharge c		K the The	
movimum	tomporature T of port/		Т	(°C)		allowed		
maximum temperature T of part/at:				а	a)		b)	Tmax (°C)
PCB near U1				49	49.6 47.4		47.4	130
Battery		No.	TH.	45	5.2		14.7	Ref.
Internal w	<i>v</i> ire	THE THE	-	47.3		4	46.8	
Internal e	nclosure	Number of	C.3/	45.3			14.2	80
External e	enclosure			42.8 42.2		12.2	75	
Ambient				40	40.0		10.0	Hend Close
Temp	erature T of winding	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	$R_2(\Omega)$	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation Class
B. and a con	- Barrow	6,20	-0		0-		-	-
Note : Ha	iving a specified maxim	um ambient	temperate	ure of 40°C	VE.	The second	x B	5 H )

4.5.5	TABLE: ball pressure test of thermoplastic parts	SCO.	N
The second	allowed impression diameter (mm):		
Part		Test temperature(°C)	Impression diameter (mm)
ある	A BAR TARIAN A BAR	60°- 0	
Note(s):	all consol		

4.7	TABLE: Resistance to	fire	The The Second	- 3 C	Р
Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence
The second	- N				Harris -
Note(s): Ref	er to table 1.5.1	-111	AP AT	Frank The South	- 57

	The Barris	E Frank and	State of	
5.1	TABLE: touch current measurement	- GO		N
Measured between:		Measured(mA)	Limit(mA)	Comments/conditions
		- 7	The Strate	- C <sup>3/-</sup>
Note(s):	The There are The Comment	Cart	-CP	10° 10
The Contra	- 8.2 · C. · ·	GU N	0	

5.2	TABLE: electric strength tests and impulse tests	THE P	The Manual	N
Test voltage applied between:		Test voltage (V)	Breakdown	

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40-	a The	- The stand	- C 3	- C <sup>2-</sup>	 C C
Note(s):	C.B.	- Barris	20 3	Gu	la:

	_	N		date	- I	The Bernard	The second
5.3	TA	TABLE: fault condition tests				5.7.0	P
极	am	ambient temperature (°C):				24.0	
	rated markings of power supply						
Component no.		Fault	Test voltage (V)	Test time	Fuse no.	Result	
Battery	17	Output,S-C		10min	- G <sup>2</sup>	Unit shutdown immediately. No hazards.	
Battery	Prod Give	Overcharge, B+ and P+, S-C	5.0	7h	S	No hazards. Battery enclosure: 29.6°C	
Battery	1	Discharge, B+ and P+, S-C		2h	The	No hazards. Battery enclosure: 28.9°0	
U1		Pin 4-3, S-C	5.0	10min		No damage and hazards.	
R10	G	S-C	5.0	10min		No damage and hazards.	
Speaker		S-C	5.0	10min	- 50	No damage and hazards.	
Fault: S-C =	shor	t circuit	and the	and Compared	C	-CP	0
Note:	and area	- Francis	C.3.	< C		NO- P	

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### Attachment A Photos of product



Fig.1 - overview



Fig.2 -overview

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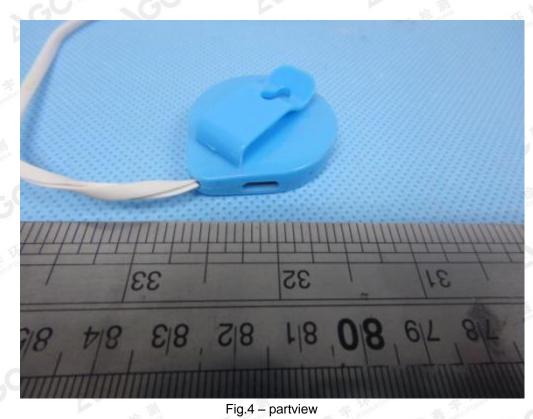
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Fig.3 - partview



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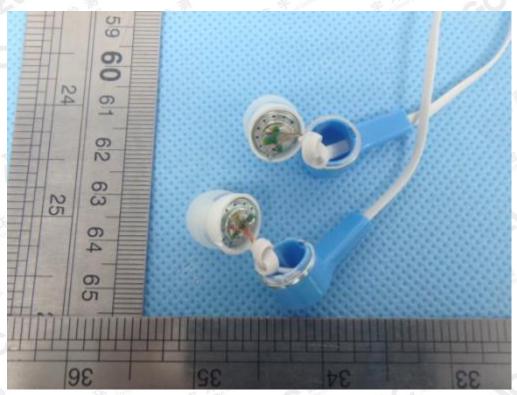


Fig.5 - partview

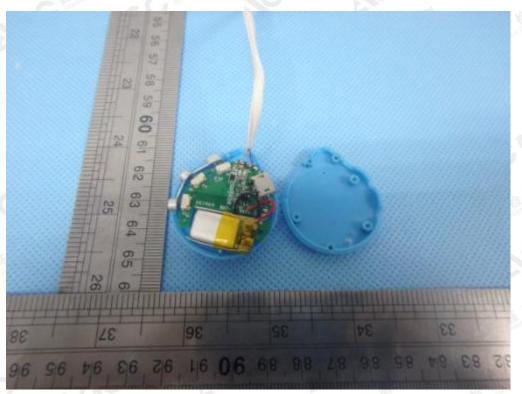


Fig.6 – partview

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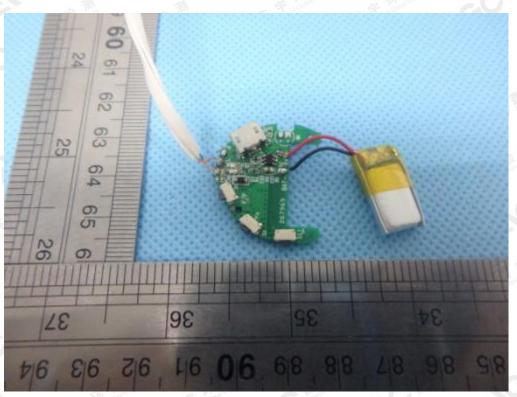


Fig.7 – partview

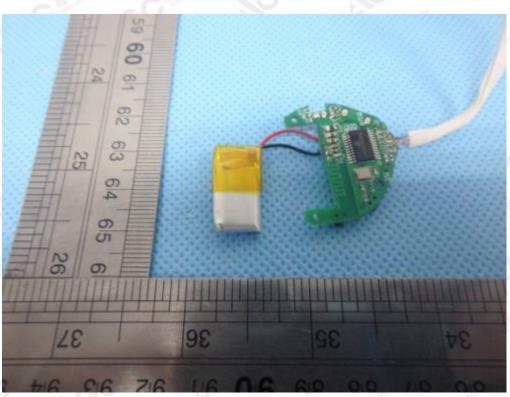


Fig.8 – partview

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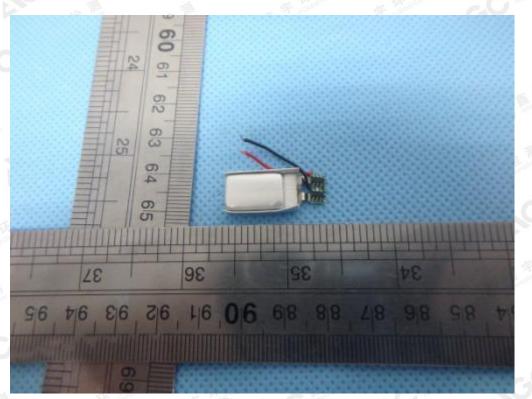
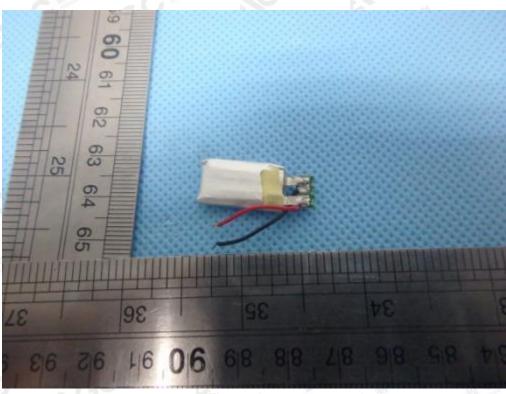


Fig.9 –battery



### Fig.10 – battery

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