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Test Report

Applicant: Fujian Baofeng Electronics Co., Ltd.

Address: Changfu Industrial Zone, Xiamei, Nan'an, Quanzhou, Fujian, China

Product: DUAL BAND/DUAL DISPLAY RADIO

Trademark: **BAOFENG**

Model No: UV-5R, UV-5RA, UV-5RC, UV-5RE, UV-5R+plus, GT-3, UV-5RE

plus, Proxel BF-UV9R + HP

Test report form no: EN 60950-1 Rev: No.0/201412

Test laboratory: Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industry Park,

Nanshan, Shenzhen, Guangdong, China

Phone: 86-755-86026850 Fax: 86-755-26013350

Website: http://www.szmost.com

The safety testing has been performed on the submitted samples and found in compliance with the Standard EN 60950-1.



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TEST REPORT

EN 60950-1

Information technology equipment – Safety – Part 1: General requirements

Report Number: MTS/LNT/E18050285 Rev.0

Date of issue: June 4, 2018

Total number of pages: 69 pages

Applicant's name: Fujian Baofeng Electronics Co., Ltd.

Address: Changfu Industrial Zone, Xiamei, Nan'an, Quanzhou, Fujian, China

Test specification:

Standard: EN 60950-1: 2006 + A11: 2009 +A1: 2010 +A12: 2011 +A2: 2013

Test procedure....: Test report

Non-standard test method.....: N/A

Test Report Form No.....: IEC60950_1F

Test Report Form(s) Originator...: SGS Fimko Ltd

Master TRF.....: Dated 2014-02

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The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the Testing Laboratory, responsible for this Test Report.

Test item description DUAL BAND/DUAL DISPLAY RADIO

Trade Mark

Manufacturer Fujian Baofeng Electronics Co., Ltd.

Changfu Industrial Zone, Xiamei, Nan'an, Quanzhou, Fujian, China

Model/Type reference...... UV-5R, UV-5RA, UV-5RC, UV-5RE, UV-5R+plus, GT-3, UV-5RE

plus, Proxel BF-UV9R + HP

Ratings...... 7.4-8.4V., 5W

Battery: 7.4V , 1800mAh, 13.32Wh

Adapter:Input:100-240VAC, 50/60Hz, 0.25A, Output:10VDC,0.5A

supplied by charger base:Input:10VDC

Output:8.4VDC, 400mA



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Testing procedure and testing location:	
	Shenzhen Most Technology Service Co., Ltd.
Testing location/ address:	No.5, 2nd Langshan Road, North District, Hi-tech Industry Park, Nanshan, Shenzhen, Guangdong, China
Associated Testing Laboratory:	
Testing location/ address:	
Tested by (name + signature)::	Lucien Tan Lucien Tan Lucien Jan Approved
Approved by (name + signature):	Jack Cheng Lucien Tan Lucien Tan Lucien Jews Jack Clary
Testing procedure: TMP/CTF Stage 1:	
Testing location/ address:	
Tested by (name + signature):	
Approved by (name + signature):	
Testing procedure: WMT/CTF Stage 2:	
Testing location/ address:	
Tested by (name + signature):	
Witnessed by (name + signature):	
Approved by (name + signature):	
Testing procedure: SMT/CTF Stage 3 or 4:	
Testing location/ address:	
Tested by (name + signature):	
Witnessed by (name + signature):	
Approved by (name + signature):	
Supervised by (name + signature)::	



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Instructions and equipment marking related to safety is

List of Attachments (including a total number of pages in each attachment):

- 1. European group differences (20 pages)
- 2. Photos (6 pages)

Summary of testing:

1.7.2.1

From the result of our tests on the submitted samples, we conclude they comply with the requirements of the standards

Language of	safety markings/instructions	applied and checked in English, the instruction and marking should be checked again when marketed in the countries using other language.
Tests perfo clause):	rmed (name of test and test	Testing location: No.5, 2nd Langshan Road, North District, Hi-tech
Clause(s) Test(s)	Test(s)	Industry Park, Nanshan, Shenzhen, Guangdong, China
1	General	Clima
2	Protection from hazards	
3	Wiring, connections and supply	
4	Physical requirements	
5	Abnormal operating and fault conditions	

Summary of compliance with National Differences:

List of countries addressed

1. European group

∑ The product fulfils the requirements of EN 60950-1: 2006 + A11: 2009 +A1: 2010 +A12: 2011 +A2: 2013

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Copy of marking plate:







Li-ion Battery

BL-5 2ICP10/34/42

7.4Vd.c., 1800mAh, 13.32Wh

(+), (-)

Dongguan Shirui Battery Co., Ltd

2018.01.07

CAUTION

- -Do not disassemble or modify
- -Do not short-circuit
- -Do not dispose in fire
- -Do not expose to high temperature



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Test item particulars:	DUAL BAND/DUAL DISPLAY RADIO
Equipment mobility:	[] movable [X] hand-held [] transportable [] stationary [] for building-in [] direct plug-in
Connection to the mains:	[] pluggable equipment [] type A [] type B [] permanent connection [] detachable power supply cord [] non-detachable power supply cord [X] not directly connected to the mains
Operating condition:	[X] continuous [] rated operating / resting time:
Access location:	[X] operator accessible [] restricted access location
Over voltage category (OVC):	[] OVC I [] OVC II [] OVC III [] OVC IV [X] other:
Mains supply tolerance (%) or absolute mains supply values:	N/A
Tested for IT power systems	[] Yes [X] No
IT testing, phase-phase voltage (V)	
Class of equipment:	[] Class I [] Class II [X] Class III [] Not classified
Considered current rating of protective device as part of the building installation (A)	N/A
Pollution degree (PD)	[] PD 1 [X] PD 2 [] PD 3
IP protection class:	IP20
Altitude during operation (m):	Up to 2000m
Altitude of test laboratory (m):	
Mass of equipment (kg):	Approx. 0.16kg
Possible test case verdicts:	
- test case does not apply to the test object::	N/A
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement::	F (Fail)
Testing:	
Date of receipt of test item:	2018-05-14
Date (s) of performance of tests::	2018-05-14 to 2018-06-04



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General remarks:			
"(See Enclosure #)" refers to "(See appended table)" refer			
Throughout this report a [☐ comma / ⊠ point	is used as the decimal sepa	rator.
		considered and the requirement	
Determination of the test res and methods.	sult includes considera	ation of measurement uncertai	nty from the test equipment
Manufacturer's Declaration	per sub-clause 4.2.	5 of IECEE 02:	
The application for obtaining includes more than one factor declaration from the Manufactor sample(s) submitted for evalure representative of the product been provided	ory location and a cturer stating that the uation is (are) s from each factory ha		
When differences exist; the	ey shall be identified	in the General product infor	mation section.
Name and address of factor	ory (ies)	: Fujian Baofeng Electronic	cs Co., Ltd.
		Changfu Industrial Zone, Nan'an, Quanzhou, Fujian,	
General product information	on:		
The equipment is DUAL BAI enclosure is plastic material		RADIO, electronic components d by screws.	mounted on PWB, external
Circuit characteristics: SELV	circuit.		
Maximum recommended an	nbient (Tmra): 40°C		
The product DUAL BAND/DU Charger base input: 5VDC; Battery: DC 3.7V, 1500mAh	Output: 5VDC, 500m/	is supplied by the charger bas A	e or battery
Abbreviations used in the	report:		
- normal conditions	N.C.	- single fault conditions	S.F.C
- functional insulation - double insulation		- basic insulation - supplementary insulation	BI SI
- between parts of opposite			31
polarity	ВОР	- reinforced insulation	RI
Indicate used abbreviation	is (if any)		



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	EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict

1	GENERAL	Р
---	---------	---

1.5	Components		Р
1.5.1	General	See below	Р
	Comply with IEC 60950-1 or relevant component standard	(see appended table 1.5.1).	Р
1.5.2	Evaluation and testing of components	Certified components are used in accordance with their ratings, certifications and they comply with applicable parts of this standard. Components not certified are used in accordance with their ratings and they comply with applicable parts of IEC 60950-1 and the relevant component standard. Components, for which no relevant IEC-standard exists, have been tested under the conditions occurring in the equipment, using applicable parts of IEC 60950-1.	P
1.5.3	Thermal controls	No thermal control.	N/A
1.5.4	Transformers		N/A
1.5.5	Interconnecting cables		N/A
1.5.6	Capacitors bridging insulation		N/A
1.5.7	Resistors bridging insulation		N/A
1.5.7.1	Resistors bridging functional, basic or supplementary insulation		N/A
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits		N/A
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable		N/A
1.5.8	Components in equipment for IT power systems		N/A
1.5.9	Surge suppressors		N/A
1.5.9.1	General		N/A
1.5.9.2	Protection of VDRs		N/A
1.5.9.3	Bridging of functional insulation by a VDR		N/A
1.5.9.4	Bridging of basic insulation by a VDR		N/A



	EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		N/A

1.6	Power interface		Р
1.6.1	AC power distribution systems	Not directly connected to the mains	N/A
1.6.2	Input current		N/A
1.6.3	Voltage limit of hand-held equipment		Р
1.6.4	Neutral conductor		N/A

1.7	Marking and instructions		Р
1.7.1	Power rating and identification markings	The required marking is located on the outside surface of the equipment.	Р
1.7.1.1	Power rating marking	See below	Р
	Multiple mains supply connections	Not directly connected to the mains	N/A
	Rated voltage(s) or voltage range(s) (V)	See page 2	Р
	Symbol for nature of supply, for d.c. only:		N/A
	Rated frequency or rated frequency range (Hz):		N/A
	Rated current (mA or A):	See page 2	Р
1.7.1.2	Identification markings	See below	Р
	Manufacturer's name or trade-mark or identification mark	See page 2	Р
	Model identification or type reference:	See page one	Р
	Symbol for Class II equipment only:	Class III equipment	N/A
	Other markings and symbols:	Additional symbols or marking do not give rise to misunderstanding.	Р
1.7.1.3	Use of graphical symbols		N/A
1.7.2	Safety instructions and marking	English version provided. (Version in other language will be provided when submitted for national approval)	Р
1.7.2.1	General		N/A
1.7.2.2	Disconnect devices	Not directly connected to the mains	N/A



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	EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
1.7.2.3	Overcurrent protective device		N/A
1.7.2.4	IT power distribution systems		N/A
1.7.2.5	Operator access with a tool		N/A
1.7.2.6	Ozone	The equipment does not produce Ozone.	N/A
1.7.3	Short duty cycles	The equipment is designed for continuous operation.	N/A
1.7.4	Supply voltage adjustment:	Full range voltage design, no Voltage adjustment.	N/A
	Methods and means of adjustment; reference to installation instructions:		
1.7.5	Power outlets on the equipment:	No standard power outlet.	N/A
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference):		N/A
1.7.7	Wiring terminals	Refer below.	N/A
1.7.7.1	Protective earthing and bonding terminals:	Class III equipment	N/A
1.7.7.2	Terminals for a.c. mains supply conductors	The equipment is not permanently connected or provided with a non-detachable power supply cord.	N/A
1.7.7.3	Terminals for d.c. mains supply conductors	The equipment is not supplied from d.c mains.	N/A
1.7.8	Controls and indicators	See below	N/A
1.7.8.1	Identification, location and marking:	No controls affecting safety	N/A
1.7.8.2	Colours:	No indicators with colours where safety is involved	N/A
1.7.8.3	Symbols according to IEC 60417		N/A
1.7.8.4	Markings using figures:	No controls	N/A
1.7.9	Isolation of multiple power sources:	Only one connection supplying hazardous voltages and energy levels to the equipment.	N/A
1.7.10	Thermostats and other regulating devices:	No thermostats or other regulating devices.	N/A



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	EN 60950-1			
Clause	Requirement + Test		Result - Remark	Verdict
1.7.11	Durability		The marking plate was subjected to the permanence of marking test. The marking plate was rubbed with cloth soaked with water for 15s and then again for 15s with the cloth soaked with petroleum spirit. After this test there was no damage to the marking plate. The marking on the label did not fade.	Р
1.7.12	Removable parts			N/A
1.7.13	Replaceable batteries	:	No replaceable batteries	N/A
	Language(s)			_
1.7.14	Equipment for restricted access loca	ations:		N/A

2	PROTECTION FROM HAZARDS		Р
2.1	Protection from electric shock and energy hazar	from electric shock and energy hazards	
2.1.1	Protection in operator access areas	See below	Р
2.1.1.1	Access to energized parts	There is adequate protection against operator contact with bare parts at ELV or hazardous voltage or parts separated from these with basic or functional insulation only (except protective earth), also after operator detachable parts are removed and doors and covers are opened. No hazardous voltages exceeding 1000V a.c. or 1500V d.c. ref. Sub-clause 2.10. Checked by test finger and test pin.	P
	Test by inspection:	Complies.	Р
	Test with test finger (Figure 2A)	Complies.	Р
	Test with test pin (Figure 2B)	Complies.	Р
	Test with test probe (Figure 2C):	No TNV circuits within the equipment.	N/A
2.1.1.2	Battery compartments	No battery compartments provided and no TNV circuits within the equipment	N/A



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1871.75 (1.1145-11.107)	Fage 12 01 09	Report No., WIT 3/LN 1/E1603026			
	EN 60950-1				
Clause	Requirement + Test	Result - Remark	Verdict		
2.1.1.3	Access to ELV wiring	No internal wiring at ELV accessible to the operator.	N/A		
	Working voltage (Vpeak or Vrms); minimum distance through insulation (mm)	(see appended tables 2.10.2 and 2.10.5)	_		
2.1.1.4	Access to hazardous voltage circuit wiring	No internal wiring at hazardous voltage circuit accessible to the operator.	N/A		
2.1.1.5	Energy hazards	No energy hazard in operator access area.	N/A		
2.1.1.6	Manual controls	No conductive shafts of operating knobs, handles, levers and the like in operator access areas.	N/A		
2.1.1.7	Discharge of capacitors in equipment		N/A		
	Measured voltage (V); time-constant (s)		_		
2.1.1.8	Energy hazards – d.c. mains supply	Not connected to DC mains supply.	N/A		
	a) Capacitor connected to the d.c. mains supply:		N/A		
	b) Internal battery connected to the d.c. mains supply:		N/A		
2.1.1.9	Audio amplifiers	No audio amplifiers.	N/A		
2.1.2	Protection in service access areas	Checked by inspection unintentional contact is unlikely during service operations.	Р		
2.1.3	Protection in restricted access locations		N/A		

2.2	2.2 SELV circuits		Р
2.2.1	General requirements	SELV limits are not exceeded under normal condition and after a single fault.	Р
2.2.2	Voltages under normal conditions (V):	Within SELV limits.	Р
2.2.3	Voltages under fault conditions (V):	Within SELV limits.	Р
2.2.4	Connection of SELV circuits to other circuits:	SELV circuits are only connected to other SELV circuits and LCC circuits.	Р

2.3	TNV circuits		N/A
2.3.1		No TNV circuits within the equipment.	N/A



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	EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Type of TNV circuits		_
2.3.2	Separation from other circuits and from accessible parts		N/A
2.3.2.1	General requirements		N/A
2.3.2.2	Protection by basic insulation		N/A
2.3.2.3	Protection by earthing		N/A
2.3.2.4	Protection by other constructions		N/A
2.3.3	Separation from hazardous voltages		N/A
	Insulation employed		_
2.3.4	Connection of TNV circuits to other circuits		N/A
	Insulation employed		
2.3.5	Test for operating voltages generated externally		N/A
2.4	Limited current circuits		N/A
2.4.1	General requirements		N/A
2.4.2	Limit values		N/A
	Frequency (Hz)		_
	Measured current (mA):		
	Measured voltage (V)		
	Measured circuit capacitance (nF or μF)		_
2.4.3	Connection of limited current circuits to other circuits		N/A
			,
2.5	Limited power sources		N/A
	a) Inherently limited output		N/A
	b) Impedance limited output		N/A
	c) Regulating network limited output under normal operating and single fault condition		N/A
	d) Overcurrent protective device limited output		N/A
	Max. output voltage (V), max. output current (A), max. apparent power (VA)		_
	Current rating of overcurrent protective device (A) .:		
	Use of integrated circuit (IC) current limiters		N/A



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EN 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

2.6	Provisions for earthing and bonding		N/A
2.6.1	Protective earthing	Class III equipment	N/A
2.6.2	Functional earthing		N/A
	Use of symbol for functional earthing:		_
2.6.3	Protective earthing and protective bonding conductors		N/A
2.6.3.1	General		N/A
2.6.3.2	Size of protective earthing conductors		N/A
	Rated current (A), cross-sectional area (mm²), AWG:		_
2.6.3.3	Size of protective bonding conductors		N/A
	Rated current (A), cross-sectional area (mm²), AWG:		_
	Protective current rating (A), cross-sectional area (mm²), AWG:		_
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω) , voltage drop (V), test current (A), duration (min):		N/A
2.6.3.5	Colour of insulation:		N/A
2.6.4	Terminals		N/A
2.6.4.1	General		N/A
2.6.4.2	Protective earthing and bonding terminals		N/A
	Rated current (A), type, nominal thread diameter (mm):		_
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		N/A
2.6.5	Integrity of protective earthing		N/A
2.6.5.1	Interconnection of equipment		N/A
2.6.5.2	Components in protective earthing conductors and protective bonding conductors		N/A
2.6.5.3	Disconnection of protective earth		N/A
2.6.5.4	Parts that can be removed by an operator		N/A
2.6.5.5	Parts removed during servicing		N/A
2.6.5.6	Corrosion resistance		N/A
2.6.5.7	Screws for protective bonding		N/A
2.6.5.8	Reliance on telecommunication network or cable distribution system		N/A



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EN 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

2.7	Overcurrent and earth fault protection in primary circuits	
2.7.1	Basic requirements	N/A
	Instructions when protection relies on building installation	N/A
2.7.2	Faults not simulated in 5.3.7	_
2.7.3	Short-circuit backup protection	N/A
2.7.4	Number and location of protective devices:	N/A
2.7.5	Protection by several devices	N/A
2.7.6	Warning to service personnel	N/A

2.8	Safety interlocks		N/A
2.8.1	General principles	No safety interlocks or similar devices within the equipment	N/A
2.8.2	Protection requirements		N/A
2.8.3	Inadvertent reactivation		N/A
2.8.4	Fail-safe operation		N/A
	Protection against extreme hazard		N/A
2.8.5	Moving parts		N/A
2.8.6	Overriding		N/A
2.8.7	Switches, relays and their related circuits		N/A
2.8.7.1	Separation distances for contact gaps and their related circuits (mm):		N/A
2.8.7.2	Overload test		N/A
2.8.7.3	Endurance test		N/A
2.8.7.4	Electric strength test		N/A
2.8.8	Mechanical actuators		N/A

2.9	Electrical insulation		N/A
2.9.1	Properties of insulating materials		N/A
2.9.2	Humidity conditioning		N/A
	Relative humidity (%), temperature (°C)		_
2.9.3	Grade of insulation		N/A
2.9.4	Separation from hazardous voltages		N/A



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	EN 60950-1			
Clause Requirement + Test Result - Remark Verd				
	Method(s) used:		_	

2.10	Clearances, creepage distances and distances through insulation		Р
2.10.1	General	Functional insulation only.	Р
2.10.1.1	Frequency:		_
2.10.1.2	Pollution degrees	Pollution Degree 2.	Р
2.10.1.3	Reduced values for functional insulation	The functional insulation complied with clause 5.3.4	Р
2.10.1.4	Intervening unconnected conductive parts		_
2.10.1.5	Insulation with varying dimensions		N/A
2.10.1.6	Special separation requirements		N/A
2.10.1.7	Insulation in circuits generating starting pulses		N/A
2.10.2	Determination of working voltage		Р
2.10.2.1	General		_
2.10.2.2	RMS working voltage		N/A
2.10.2.3	Peak working voltage		N/A
2.10.3	Clearances	Only the functional insulation in secondary circuits complied with clause 5.3.4.	Р
2.10.3.1	General	Refer below:	Р
2.10.3.2	Mains transient voltages	Not direct mains connection	N/A
	a) AC mains supply:		N/A
	b) Earthed d.c. mains supplies:		N/A
	c) Unearthed d.c. mains supplies:		N/A
	d) Battery operation:		N/A
2.10.3.3	Clearances in primary circuits		N/A
2.10.3.4	Clearances in secondary circuits	Function insulation, meet 5.3.4, method C.	Р
2.10.3.5	Clearances in circuits having starting pulses		N/A
2.10.3.6	Transients from a.c. mains supply:		N/A
2.10.3.7	Transients from d.c. mains supply:		N/A
2.10.3.8	Transients from telecommunication networks and cable distribution systems:		N/A
2.10.3.9	Measurement of transient voltage levels		_
	a) Transients from a mains supply		N/A



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	EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	For an a.c. mains supply:		N/A
	For a d.c. mains supply		N/A
	b) Transients from a telecommunication network :		N/A
2.10.4	Creepage distances		N/A
2.10.4.1	General		N/A
2.10.4.2	Material group and comparative tracking index		N/A
	CTI tests:		_
2.10.4.3	Minimum creepage distances		N/A
2.10.5	Solid insulation		N/A
2.10.5.1	General		N/A
2.10.5.2	Distances through insulation		N/A
2.10.5.3	Insulating compound as solid insulation		N/A
2.10.5.4	Semiconductor devices		N/A
2.10.5.5.	Cemented joints		N/A
2.10.5.6	Thin sheet material – General		N/A
2.10.5.7	Separable thin sheet material		N/A
	Number of layers (pcs):		_
2.10.5.8	Non-separable thin sheet material		N/A
2.10.5.9	Thin sheet material – standard test procedure		N/A
	Electric strength test		_
2.10.5.10	Thin sheet material – alternative test procedure		N/A
	Electric strength test		_
2.10.5.11	Insulation in wound components		N/A
2.10.5.12	Wire in wound components		N/A
	Working voltage		N/A
	a) Basic insulation not under stress:		N/A
	b) Basic, supplementary, reinforced insulation:		N/A
	c) Compliance with Annex U:		N/A
	Two wires in contact inside wound component; angle between 45° and 90°		N/A
2.10.5.13	Wire with solvent-based enamel in wound components		N/A
	Electric strength test		
	Routine test		N/A



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	EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
2.10.5.14	Additional insulation in wound components		N/A
2.10.5.14			N/A
	Working voltage		
	- Basic insulation not under stress:		N/A
0.40.0	- Supplementary, reinforced insulation:		N/A
2.10.6	Construction of printed boards		Р
2.10.6.1	Uncoated printed boards		Р
2.10.6.2	Coated printed boards		N/A
2.10.6.3	Insulation between conductors on the same inner surface of a printed board		N/A
2.10.6.4	Insulation between conductors on different layers of a printed board		N/A
	Distance through insulation		N/A
	Number of insulation layers (pcs):		N/A
2.10.7	Component external terminations		N/A
2.10.8	Tests on coated printed boards and coated components		N/A
2.10.8.1	Sample preparation and preliminary inspection		N/A
2.10.8.2	Thermal conditioning		N/A
2.10.8.3	Electric strength test		N/A
2.10.8.4	Abrasion resistance test		N/A
2.10.9	Thermal cycling		N/A
2.10.10	Test for Pollution Degree 1 environment and insulating compound		N/A
2.10.11	Tests for semiconductor devices and cemented joints		N/A
2.10.12	Enclosed and sealed parts		N/A

3	WIRING, CONNECTIONS AND SUPPLY		Р
3.1	General		Р
3.1.1	Current rating and overcurrent protection		Р
3.1.2	Protection against mechanical damage	Wireways are smooth and free from edges. Wires are adequately fixed to prevent excessive strain on wire	Р



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Clause	Requirement + Test	Result - Remark	Verdict		
3.1.3	Securing of internal wiring	Internal wiring is secured against excessive strain, loosening of terminals and damage to the conductor insulation.	Р		
3.1.4	Insulation of conductors	Insulation on internal conductors is considered to be of adequate quality and suitable for the application and the working voltage involved.	Р		
3.1.5	Beads and ceramic insulators	No beads or similar ceramic insulators on conductors.	N/A		
3.1.6	Screws for electrical contact pressure		N/A		
3.1.7	Insulating materials in electrical connections	No contact pressure through insulating material.	N/A		
3.1.8	Self-tapping and spaced thread screws		N/A		
3.1.9	Termination of conductors		N/A		
	10 N pull test		N/A		
3.1.10	Sleeving on wiring		N/A		

3.2	Connection to a mains supply		N/A —
3.2.1	Means of connection	Not directly connected to the mains	
3.2.1.1	Connection to an a.c. mains supply		N/A
3.2.1.2	Connection to a d.c. mains supply		N/A
3.2.2	Multiple supply connections		N/A
3.2.3	Permanently connected equipment		N/A
	Number of conductors, diameter of cable and conduits (mm):		_
3.2.4	Appliance inlets		N/A
3.2.5	Power supply cords		N/A
3.2.5.1	AC power supply cords		N/A
	Type:		_
	Rated current (A), cross-sectional area (mm²), AWG		_
3.2.5.2	DC power supply cords	The equipment is not for connecting to d.c. mains.	N/A
3.2.6	Cord anchorages and strain relief		N/A



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	EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Mass of equipment (kg), pull (N):		_
	Longitudinal displacement (mm):		_
3.2.7	Protection against mechanical damage		N/A
3.2.8	Cord guards		N/A
	Diameter or minor dimension D (mm); test mass (g)		_
	Radius of curvature of cord (mm)		_
3.2.9	Supply wiring space		N/A

3.3	Wiring terminals for connection of external conductors	N/A
3.3.1	Wiring terminals	N/A
3.3.2	Connection of non-detachable power supply cords	N/A
3.3.3	Screw terminals	N/A
3.3.4	Conductor sizes to be connected	N/A
	Rated current (A), cord/cable type, cross-sectional area (mm²):	_
3.3.5	Wiring terminal sizes	N/A
	Rated current (A), type, nominal thread diameter (mm):	_
3.3.6	Wiring terminal design	N/A
3.3.7	Grouping of wiring terminals	N/A
3.3.8	Stranded wire	N/A

3.4	Disconnection from the mains supply		N/A
3.4.1	General requirement	Not directly connected to the mains	N/A
3.4.2	Disconnect devices		N/A
3.4.3	Permanently connected equipment		N/A
3.4.4	Parts which remain energized		N/A
3.4.5	Switches in flexible cords		N/A
3.4.6	Number of poles – single-phase and d.c. equipment		N/A
3.4.7	Number of poles – three-phase equipment		N/A
3.4.8	Switches as disconnect devices		N/A
3.4.9	Plugs as disconnect devices		N/A



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Clause	Requirement + Test	Result - Remark	Verdict	
3.4.10	Interconnected equipment		N/A	
3.4.11	Multiple power sources		N/A	
	·			
3.5	Interconnection of equipment		N/A	
3.5.1	General requirements		N/A	
3.5.2	Types of interconnection circuits:		N/A	
0.50	ELV circuits as interconnection circuits		N/A	
3.5.3				

4	PHYSICAL REQUIREMENTS		Р
4.1	Stability	N	N/A
	Angle of 10°	N	N/A
	Test force (N)	N	I/A

4.2	Mechanical strength		Р
4.2.1	General	Complies with the requirement also after tests described below are applied.	Р
	Rack-mounted equipment.	No rack-mounted equipment.	N/A
4.2.2	Steady force test, 10 N		N/A
4.2.3	Steady force test, 30 N	No cover or doors	N/A
4.2.4	Steady force test, 250 N	No hazards. The test is performed at plastic enclosure.	Р
4.2.5	Impact test		N/A
	Fall test		N/A
	Swing test		N/A
4.2.6	Drop test; height (mm):	Drop from 1000mm height. After the test, no damaged to insulation, no energy hazards or damage to the enclosure integrity was observed.	Р
4.2.7	Stress relief test		Р
4.2.8	Cathode ray tubes	No cathode ray tubes provided	N/A
	Picture tube separately certified:		N/A
4.2.9	High pressure lamps		N/A
4.2.10	Wall or ceiling mounted equipment; force (N):		N/A



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Clause	Requirement + Test	Result - Remark	Verdict

4.3	Design and construction		Р
4.3.1	Edges and corners	All edges and corners are rounded and/or smoothed.	Р
4.3.2	Handles and manual controls; force (N):	No Handles, knobs, grips, levers and the like	N/A
4.3.3	Adjustable controls	No hazardous adjustable controls.	N/A
4.3.4	Securing of parts		N/A
4.3.5	Connection by plugs and sockets		N/A
4.3.6	Direct plug-in equipment		N/A
	Torque:		
	Compliance with the relevant mains plug standard		N/A
4.3.7	Heating elements in earthed equipment	No heating elements provided.	N/A
4.3.8	Batteries		Р
	- Overcharging of a rechargeable battery	See appended table 4.3.8	Р
	- Unintentional charging of a non-rechargeable battery		N/A
	- Reverse charging of a rechargeable battery	Battery pack polarity cannot be reversed according to the design of enclosure and connecter	N/A
	- Excessive discharging rate for any battery		N/A
4.3.9	Oil and grease	Insulation in intended use not considered to be exposed to oil or grease.	N/A
4.3.10	Dust, powders, liquids and gases	The equipment does not produce dust or use powders, liquids and gases in the equipment.	N/A
4.3.11	Containers for liquids or gases	No container for liquids or gases used	N/A
4.3.12	Flammable liquids:	The equipment does not contain flammable liquid	N/A
	Quantity of liquid (I):		N/A
	Flash point (°C):		N/A
4.3.13	Radiation		Р
4.3.13.1	General		Р



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Clause	Requirement + Test	Result - Remark	Verdict
4.3.13.2	Ionizing radiation	The equipment does not generate ionizing radiation.	N/A
	Measured radiation (pA/kg)		_
	Measured high-voltage (kV):		
	Measured focus voltage (kV):		
	CRT markings		_
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	The equipment does not produce significant UV radiation.	N/A
	Part, property, retention after test, flammability classification:		N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation:	The equipment does not produce significant UV radiation.	N/A
4.3.13.5	Lasers (including laser diodes) and LEDs	indicating lights;	Р
4.3.13.5.1	Lasers (including laser diodes)		N/A
	Laser class		_
4.3.13.5.2	Light emitting diodes (LEDs)	indicating lights;	Р
4.3.13.6	Other types:	The equipment does not generate other types of radiation.	N/A

4.4	Protection against hazardous moving parts		N/A
4.4.1	General	No hazardous moving parts within the equipment	N/A
4.4.2	Protection in operator access areas		N/A
	Household and home/office document/media shredders		N/A
4.4.3	Protection in restricted access locations:		N/A
4.4.4	Protection in service access areas		N/A
4.4.5	Protection against moving fan blades		N/A
4.4.5.1	General		N/A
	Not considered to cause pain or injury. A)		N/A
	Is considered to cause pain, not injury. B):		N/A
	Considered to cause injury.		N/A
4.4.5.2	Protection for users		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	Use of symbol or warning:		N/A
4.4.5.3	Protection for service persons		N/A
	Use of symbol or warning:		N/A
4.5	Thermal requirements		Р
4.5.1	General	See below.	Р
4.5.2	Temperature tests	(see appended table 4.5)	Р
	Normal load condition per Annex L		_
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		N/A
4.6	Openings in enclosures		N/A
4.6.1	Top and side openings	There are no openings in the top of the enclosure.	N/A
	Dimensions (mm)		_
4.6.2	Bottoms of fire enclosures	No opening	N/A
	Construction of the bottomm, dimensions (mm)		N/A
4.6.3	Doors or covers in fire enclosures	No doors or covers in fire enclosure.	N/A
4.6.4	Openings in transportable equipment		N/A
4.6.4.1	Constructional design measures		_
	Dimensions (mm)		N/A
4.6.4.2	Evaluation measures for larger openings		N/A
4.6.4.3	Use of metallized parts	No barrier secured by adhesive inside enclosure.	N/A
4.6.5	Adhesives for constructional purposes	No barrier or screen secured by adhesive inside enclosure.	N/A
	Conditioning temperature (°C), time (weeks)		_
4.7	Resistance to fire		Р
4.7.1	Reducing the risk of ignition and spread of flame	Method 1 is used.	Р
	Method 1, selection and application of component wiring and materials	(see appended table 1.5.1)	Р
	Method 2, application of all of simulated fault condition tests		N/A



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Clause	Requirement + Test	Result - Remark	Verdict		
4.7.2	Conditions for a fire enclosure	Refer below.	Р		
4.7.2.1	Parts requiring a fire enclosure	The fire enclosure cover all components	Р		
4.7.2.2	Parts not requiring a fire enclosure		N/A		
4.7.3	Materials		Р		
4.7.3.1	General	Components and materials have adequate flammability classification. See appended table 1.5.1	Р		
4.7.3.2	Materials for fire enclosures	Min.V-1 fire enclosure used	Р		
4.7.3.3	Materials for components and other parts outside fire enclosures		N/A		
4.7.3.4	Materials for components and other parts inside fire enclosures	Materials inside fire enclosure are minimum V-2 material or better	Р		
4.7.3.5	Materials for air filter assemblies	No air filters in the equipment	N/A		
4.7.3.6	Materials used in high-voltage components	No parts exceeding 4kV	N/A		

5	5 ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS	
5.1	Touch current and protective conductor current	N/A
5.1.1	General	N/A
5.1.2	Configuration of equipment under test (EUT)	
5.1.2.1	Single connection to an a.c. mains supply	N/A
5.1.2.2	Redundant multiple connections to an a.c. mains supply	N/A
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	N/A
5.1.3	Test circuit	N/A
5.1.4	Application of measuring instrument	N/A
5.1.5	Test procedure	N/A
5.1.6	Test measurements	N/A
	Supply voltage (V):	
	Measured touch current (mA):	_
	Max. allowed touch current (mA):	_
	Measured protective conductor current (mA):	_
	Max. allowed protective conductor current (mA):	_



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Clause	Requirement + Test	Result - Remark	Verdict
5.1.7	Equipment with touch current exceeding 3,5 mA		N/A
5.1.7.1	General		N/A
5.1.7.2	Simultaneous multiple connections to the supply		N/A
5.1.7.2	Touch currents to telecommunication networks and	Not connected to a	N/A
5.1.6	cable distribution systems and from telecommunication networks	telecommunication network or cable distribution systems	IN/A
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system		N/A
	Supply voltage (V):		
	Measured touch current (mA):		
	Max. allowed touch current (mA)		_
5.1.8.2	Summation of touch currents from telecommunication networks		N/A
	a) EUT with earthed telecommunication ports:		N/A
	b) EUT whose telecommunication ports have no reference to protective earth		N/A
5.2	Electric strength		N/A
5.2.1	General		N/A
5.2.2	Test procedure		N/A
5.3	Abnormal apprecing and fault conditions		Р
	Abnormal operating and fault conditions	0	•
5.3.1	Protection against overload and abnormal operation	See appended table 5.3	P
5.3.2	Motors	No motor	N/A
5.3.3	Transformers		N/A
5.3.4	Functional insulation:	Functional insulation complies with the requirements ©	Р
5.3.5	Electromechanical components	The equipment does not have any electromechanical components	N/A
5.3.6	Audio amplifiers in ITE:		Р
5.3.7	Simulation of faults	(see appended table 5.3)	Р
	Unattended equipment	No thermostats, temperature	N/A
5.3.8	Onattended equipment	limiters or thermal cut-outs.	

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Clause	Clause Requirement + Test Result - Remark Verdict			
5.3.9.1	During the tests		N/A	
5.3.9.2	After the tests		N/A	

6	CONNECTION TO TELECOMMUNICATION NETWORKS	
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	N/A
	Supply voltage (V):	
	Current in the test circuit (mA):	_
6.1.2.2	Exclusions:	N/A

6.2	Protection of equipment users from overvoltages on telecommunication networks	
6.2.1	Separation requirements	N/A
6.2.2	Electric strength test procedure	N/A
6.2.2.1	Impulse test	N/A
6.2.2.2	Steady-state test	N/A
6.2.2.3	Compliance criteria	N/A

6.3	Protection of the telecommunication wiring system from overheating	
	Max. output current (A):	_
	Current limiting method:	_

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



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Clause	Requirement + Test	Result - Remark	Verdict	
7.4.1	7.4.1 General N/A			
7.4.2	Voltage surge test		N/A	
7.4.3	Impulse test		N/A	

Α	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE	N/A
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)	N/A
A.1.1	Samples:	_
	Wall thickness (mm):	_
A.1.2	Conditioning of samples; temperature (°C):	N/A
A.1.3	Mounting of samples:	N/A
A.1.4	Test flame (see IEC 60695-11-3)	N/A
	Flame A, B, C or D:	_
A.1.5	Test procedure	N/A
A.1.6	Compliance criteria	N/A
	Sample 1 burning time (s):	_
	Sample 2 burning time (s):	_
	Sample 3 burning time (s):	_
A.2	Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)	
A.2.1	Samples, material:	_
	Wall thickness (mm):	_
A.2.2	Conditioning of samples; temperature (°C):	N/A
A.2.3	Mounting of samples:	N/A
A.2.4	Test flame (see IEC 60695-11-4)	N/A
	Flame A, B or C:	_
A.2.5	Test procedure	N/A
A.2.6	Compliance criteria	N/A
	Sample 1 burning time (s):	
	Sample 2 burning time (s):	_
	Sample 3 burning time (s) :	_
A.2.7	Alternative test acc. To IEC 60695-11-5, cl. 5 and 9	N/A



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	3	•		
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Clause	Requirement + Test	Result - Remark	Verdict	
			·	
	Sample 1 burning time (s):		_	
	Sample 2 burning time (s)		_	
	Sample 3 burning time (s)		_	
A.3	Hot flaming oil test (see 4.6.2)		N/A	
A.3.1	Mounting of samples		N/A	
A.3.2	Test procedure		N/A	
A.3.3	Compliance criterion		N/A	

В	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)	N/A
B.1	General requirements	N/A
	Position:	
	Manufacturer:	_
	Type:	_
	Rated values:	
B.2	Test conditions	N/A
B.3	Maximum temperatures	N/A
B.4	Running overload test	N/A
B.5	Locked-rotor overload test	N/A
	Test duration (days):	
	Electric strength test: test voltage (V):	_
B.6	Running overload test for d.c. motors in secondary circuits	N/A
B.6.1	General	N/A
B.6.2	Test procedure	N/A
B.6.3	Alternative test procedure	N/A
B.6.4	Electric strength test; test voltage (V):	N/A
B.7	Locked-rotor overload test for d.c. motors in secondary circuits	N/A
B.7.1	General	N/A
B.7.2	Test procedure	N/A
B.7.3	Alternative test procedure	N/A
B.7.4	Electric strength test; test voltage (V):	N/A
B.8	Test for motors with capacitors	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
B.9	Test for three-phase motors		N/A
B.10	Test for series motors		N/A
	Operating voltage (V)		_
C	Annex C, TRANSFORMERS (see 1.5.4 and 5.3.3	3)	N/A
	Position	:	_
	Manufacturer		_
	Туре		_
	Rated values		_
	Method of protection		_
C.1	Overload test		N/A
C.2	Insulation		N/A
	Protection from displacement of windings		N/A
D	ANNEX D, MEASURING INSTRUMENTS FOR TO (see 5.1.4)	OUCH-CURRENT TESTS	N/A
D.1	Measuring instrument		N/A
D.2	Alternative measuring instrument		N/A
E	ANNEX E, TEMPERATURE RISE OF A WINDING	G (see 1.4.13)	N/A
F	ANNEX F, MEASUREMENT OF CLEARANCES (see 2.10 and Annex G)	AND CREEPAGE DISTANCES	Р
G	ANNEX G, ALTERNATIVE METHOD FOR DETE	RMINING MINIMUM	N/A
G.1	Clearances		N/A
G.1.1	General		N/A
G.1.2	Summary of the procedure for determining minimum clearances		N/A
G.2	Determination of mains transient voltage (V)		N/A
G.2.1	AC mains supply		N/A
G.2.2	Earthed d.c. mains supplies		N/A
G.2.3	Unearthed d.c. mains supplies		N/A
G.2.4	Battery operation		N/A



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Clause	Requirement + Test Result - Remark	Verdict
G.3	Determination of telecommunication network transient voltage (V):	N/A
G.4	Determination of required withstand voltage (V)	N/A
G.4.1	Mains transients and internal repetitive peaks:	N/A
G.4.2	Transients from telecommunication networks:	N/A
G.4.3	Combination of transients	N/A
G.4.4	Transients from cable distribution systems	N/A
G.5	Measurement of transient voltages (V)	N/A
	a) Transients from a mains supply	N/A
	For an a.c. mains supply	N/A
	For a d.c. mains supply	N/A
	b) Transients from a telecommunication network	N/A
G.6	Determination of minimum clearances:	N/A
		N/A
Н	ANNEX H, IONIZING RADIATION (see 4.3.13)	IN/A
J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)	N/A
	Metal(s) used:	
K	Annex K, THERMAL CONTROLS (see 1.5.3 and 5.3.8)	N/A
K.1	Making and breaking capacity	N/A
K.2	Thermostat reliability; operating voltage (V):	N/A
K.3	Thermostat endurance test; operating voltage (V):	N/A
K.4	Temperature limiter endurance; operating voltage (V):	N/A
K.5	Thermal cut-out reliability	N/A
K.6	Stability of operation	N/A
L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)	Р
L.1	Typewriters	N/A
L.2	Adding machines and cash registers	N/A
L.3	Erasers	N/A
	Pencil sharpeners	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
L.5	Duplicators and copy machines		N/A
L.6	Motor-operated files		N/A
L.7	Other business equipment		Р
M	ANNEX M, CRITERIA FOR TELEPHONE RINGING	SIGNALS (see 2.3.1)	N/A
M.1	Introduction		N/A
M.2	Method A		N/A
M.3	Method B		N/A
M.3.1	Ringing signal		N/A
M.3.1.1	Frequency (Hz)		_
M.3.1.2	Voltage (V):		_
M.3.1.3	Cadence; time (s), voltage (V):		
M.3.1.4	Single fault current (mA):		_
M.3.2	Tripping device and monitoring voltage:		N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A
M.3.2.2	Tripping device		N/A
M.3.2.3	Monitoring voltage (V):		N/A
N	ANNEX N, IMPULSE TEST GENERATORS (see 1.5 7.3.2, 7.4.3 and Clause G.5)	5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1,	N/A
N.1	ITU-T impulse test generators		N/A
N.2	IEC 60065 impulse test generator		N/A
P	ANNEX P, NORMATIVE REFERENCES		Р
	· ·		
Q	ANNEX Q, Voltage dependent resistors (VDRs) (s	ee 1.5.9.1)	N/A
	a) Preferred climatic categories:		N/A
	b) Maximum continuous voltage		N/A
	c) Pulse current:		N/A
R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR PROGRAMMES	QUALITY CONTROL	N/A



X.2

Overload test procedure

	EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)		N/A
R.2	Reduced clearances (see 2.10.3)		N/A
S	ANNEX S, PROCEDURE FOR IMPULSE TESTING	G (see 6.2.2.3)	N/A
S.1	Test equipment	(600 0.2.2.0)	N/A
S.2	Test procedure		N/A
S.3	Examples of waveforms during impulse testing		N/A
Т	ANNEX T, GUIDANCE ON PROTECTION AGAINS (see 1.1.2)	ST INGRESS OF WATER	N/A
U ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEATINSULATION (see 2.10.5.4)		SE WITHOUT INTERLEAVED	N/A
			_
V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS	6 (see 1.6.1)	N/A
V.1	Introduction		N/A
V.2	TN power distribution systems		N/A
W	ANNEX W, SUMMATION OF TOUCH CURRENTS		N/A
W.1	Touch current from electronic circuits		N/A
W.1.1	Floating circuits		N/A
W.1.2	Earthed circuits		N/A
W.2	Interconnection of several equipments		N/A
W.2.1	Isolation		N/A
W.2.2	Common return, isolated from earth		N/A
W.2.3	Common return, connected to protective earth		N/A
X	ANNEX X, MAXIMUM HEATING EFFECT IN TRAN	NSFORMER TESTS (see clause	N/A
X.1	Determination of maximum input current		N/A
V 2	Overland took properties		NI/A

N/A



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N/A

N/A

N/A

N/A

Compilanc	Page 34 of 69	eport No.: MTS/LNT/E180	50285
	EN 60950-1		
Clause	Requirement + Test Result	- Remark	Verdict
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)	N/A
Y.1	Test apparatus:		N/A
Y.2	Mounting of test samples		N/A
Y.3	Carbon-arc light-exposure apparatus:		N/A
Y.4	Xenon-arc light exposure apparatus:		N/A
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 a	nd Clause G.2)	N/A
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)		N/A
ВВ	ANNEX BB, CHANGES IN THE SECOND EDITION		_
CC	ANNEX CC, Evaluation of integrated circuit (IC) current	imiters	N/A
CC.1	General		N/A
CC.2	Test program 1		N/A
CC.3	Test program 2		N/A
DD	ANNEX DD, Requirements for the mounting means of ra	ck-mounted equipment	N/A
DD.1	General		N/A
DD.2	Mechanical strength test, variable N		N/A
DD.3	Mechanical strength test, 250N, including end stops		N/A
DD.4	Compliance:		N/A
EE	ANNEX EE, HOUSEHOLD AND HOME/OFFICE DOCUME SHREDDERS	NT/MEDIA	N/A
EE.1	General		N/A
EE.2	Markings and instructions		N/A
	Use of markings or symbols		N/A

Information of user instructions, maintenance and/or servicing instructions....:

Inadvertent reactivation test.....:

Disconnection of power to hazardous moving parts:

Use of markings or symbols.....:

EE.3

EE.4



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	3.000				
EN 60950-1					
Clause	Requirement + Test	Result - Remark	Verdict		
EE.5	Protection against hazardous moving parts		N/A		
	Test with test finger (Figure 2A)		N/A		
	Test with wedge probe (Figure EE1 and EE2):		N/A		



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1.5.1	TABLE: List of critical components	Р

Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹)
Chi Mei corporation	PA-764(+)	V-0, 85°C, Min. 1.0mm	UL 94	UL E56070
KINGBOARD LAMINATES HOCDINGS LTD	KB-6160A	V-0, 130°C, 1.0mm thickness	UL 796 UL 94	UL E123995
Dongguan Shirui Battery Co., Ltd	BL-5	7.4V,1800mAh,13 .32Wh	IEC 62133	IEC Test report:SZABB18 0129006-01
Interchangeable	Interchangeable	1W, 8Ω	EN 60950-1	Tested with appliance
Fujian Baofeng Electronics Co., Ltd.	480-10050-E.S	Input:100- 240VAC, 50/60Hz, 0.25A, Output:10VDC,0. 5A	EN 60950-1	CE
	trademark Chi Mei corporation KINGBOARD LAMINATES HOCDINGS LTD Dongguan Shirui Battery Co., Ltd Interchangeable Fujian Baofeng Electronics Co.,	trademark Chi Mei corporation KINGBOARD LAMINATES HOCDINGS LTD Dongguan Shirui Battery Co., Ltd Interchangeable Fujian Baofeng Electronics Co., 480-10050-E.S	trademark Chi Mei corporation PA-764(+) KINGBOARD LAMINATES HOCDINGS LTD Dongguan Shirui Battery Co., Ltd Interchangeable Fujian Baofeng Electronics Co., Ltd. PA-764(+) V-0, 85°C, Min. 1.0mm V-0, 130°C, 1.0mm thickness 7.4V,1800mAh,13 .32Wh Input:100-240VAC, 50/60Hz, 0.25A, Output:10VDC,0.	trademark Chi Mei corporation PA-764(+) V-0, 85°C, Min. 1.0mm KINGBOARD LAMINATES HOCDINGS LTD Dongguan Shirui Battery Co., Ltd Interchangeable Interchangeable Interchangeable Interchangeable V-0, 130°C, 1.0mm thickness V-0, 130°C, 1.0mm thickness V-1, 130°C, 1.0mm thickness IEC 62133 IEC 62133 INDUIT 100-240VAC, 50/60Hz, 0.25A, Output:10VDC, 0. EN 60950-1



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1.6.2	TABLE: Electrical data (in normal conditions)						Р
U (V)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status	
DC 8.4V	0.35		2.9			Normal working	
						Normal working	
Supplement	ary inform	ation:	1	1	•		
Max. norma	l load:						

2.1.1.5 c) 1)	5 c) TABLE: max. V, A, VA test								
Voltage (rat (V)	ed)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)				
			-1						
supplement	supplementary information:								
Vin=									

2.1.1.5 c) 2)	TABLE: st	BLE: stored energy						
Capacitan	ce C (µF)	Voltage U (V)	Energy E (J)					
supplemen	supplementary information:							

2.2	TABLE: evaluation of voltage limiting co	mponents i	n SELV circui	ts	N/A			
Compone	Component (measured between)		roltage (V) l operation)	Voltage Limiting Components				
			V d.c.					
Fault test	test performed on voltage limiting components Voltage measured (V) ir (V peak or V				V circuits			
suppleme	supplementary information:							
Vin=								



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2.5	TABLE: Limited p	ower sources				N/A		
Circuit outpu	t tested:					-		
Note: Measu	red Uoc (V) with al	Il load circuits dis	sconnected:					
Component	s Sample No.	Uoc (V)	Isc (A)		VA			
			Meas.	Limit	Meas.	Limit		
supplementa	ary information:							
Vin=								

2.10.2	Table: working vol	tage measuremen	t		N/A
Location		Peak voltage (V)	RMS voltage (V)	Comments	
supplemen	ntary information:				

2.10.3 and TABLE: Clearan 2.10.4	ce and creep	oage distan	ce measuren	nents		N/A
Clearance (cl) and creepage distance (cr) at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)
Supplementary information:						

2.10.5	2.10.5 TABLE: Distance through insulation measurements							
Distance	through insulation (DTI) at/of:	U peak (V)	U rms (V)	Test volt- age (V)	Required DTI (mm)	DTI (mm)		
Suppleme	entary information:							



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4.3.8	TABLE:	Batteries							Р
The tests o		applicable	only when ap	propriate b	oattery				Yes
Is it possible	e to install	the battery	in a reverse ¡	polarity po	sition?				No
	Non-re	chargeable	e batteries		İ	Rechargeal	ble batterie	es	
	Disch	arging	Un-	Cha	rging	Disch	arging	Reverse	d charging
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition		1		280mA	1800mA	280mA	1800mA		
Max. current during fault condition				1800mA	1800mA	1800mA	1800mA		
Test results	3:								Verdict
- Chemical	leaks					No leaks			Р
- Explosion	of the batt	ery				No explosi	on		Р
- Emission of flame or expulsion of molten metal						No emission of flame or expulision of molten metal.			Р
- Electric st	rength test	s of equipr	ment after con	pletion of	tests				N/A
Supplemen *) means sh		nation:			,				



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4.5 TABLE: Thermal requ	irements								Р
Supply voltage (V)		:		C 7.4V (by battery)	/		DC 8.4V		_
Ambient T _{min} (°C)		:		40.0			40.0		_
Ambient T _{max} (°C)	:		40.0			40.0			
Maximum measured temperature T of part/at:					T (°C)			Allowed T _{max} (°C)
supplied by charger base surface	ed by charger base surface 47.2						95		
PCB near Main IC	PCB near Main IC				63.5 67.6				130
Battery surface			55.9		54.8		60		
Button				43.6			44.1		95
Plastic enclosure near battery, outsi	de			45.3			45.8		95
Adapter surface				56.5			57.8		95
Temperature T of winding:	t ₁ (°C)	R ₁ ((Ω)	t ₂ (°C)	R	2 (Ω)	T (°C)	Allower T _{max} (°C	Insulation class
			-						
Supplementary information:									

4.5.5	TABLE: Ball pressure test of thermoplastic parts		N/A	
	Allowed impression diameter (mm):	≤ 2 mm	_	
Part		Test temperature (°C)	•	n diameter nm)
				-
				-
Supplem	entary information:			

4.7	TABLE:	TABLE: Resistance to fire							
Part		Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence			
Enclosure of EUT		See appended table 1.5.1	See appended table 1.5.1	Min. 1.0	V-0	UL E56070			
PCB		See appended table 1.5.1	See appended table 1.5.1	Min. 1.0	V-0	UL E123995			



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5.1	TABLE: touch	TABLE: touch current measurement				
Measured between:		Measured (mA)	Limit (mA)	Comments/conditions		
supplementary information:						
Input:						

5.2	TABLE: Electric strength tests, impulse tests and voltage surge tests N/A					
Test voltag	e applied between:	Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No		
Supplemen	ntary information:					

5.3	TABLE: Fault	condition tests	3					Р
	Ambient temp	erature (°C)			.:	25°C	if not mentioned	_
		for EUT: Man				See pa	age 2	_
Component No.	Fault	Supply vol- tage (V)	Test time	Fuse #	i	se cur- rent (A)	Observation	
Speaker	S-C	8.4Vdc	10min				Unit operated normally, No hazards.	
Battery	Overcharge U2	7.4Vdc	7h				Temperature stability ar hazards.	nd no
Battery	Over- discharge U2	7.4Vdc	7h				Temperature stability ar hazards.	nd no
Main IC	S-C	8.4Vdc	10min				Unit shut down rapidly, recoverable, no hazard.	
C178	S-C	8.4Vdc	10min				Unit shut down immedia Recoverable when fault No damage, no hazard.	removed,
Supplement S-C=short c	ary informatior icuit,	n:						



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C.2	TABLE: trans	formers					N/A
Loc.	Tested insulation	Working voltage peak / V (2.10.2)	Working voltage rms / V (2.10.2)	Required electric strength (5.2)	Required clearance / mm (2.10.3)	Required creepage / mm (2.10.4)	Required distance thr. insul. (2.10.5)
			1				
Loc.	Tested insulation			Test voltage/ V	Measure d clearance / mm	Measured creepage dist./ mm	Measured distance thr. insul. / mm; number of layers
Supplementar	ry information:						



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		ATTACHMENT		
Clause	Requirement + Test		Result - Remark	Verdict

ATTACHMENT TO TEST REPORT EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

Information technology equipment - Safety -

Part 1: General requirements

Differences according to EN 60950-1:2006/A11:2009/A1:2010/A12:2011/A2:2013

Attachment Form No. EU_GD_IEC60950_1F

Attachment Originator...... SGS Fimko Ltd Master Attachment Date 2014-02

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EN 60950-1:2006/A11:2009/A1:2010/A12:2011/A2:2013 - CENELEC COMMON MODIFICATIONS

IEC 60950-1, GROUP DIFFERENCES (CENELEC common modifications EN)	
Requirement + Test Result - Remark	Verdict
Clauses, subclauses, notes, tables and figures which are additional to those in IEC60950-1 and it's amendmets are prefixed "Z"	
Add the following annexes:	
Annex ZA (normative) Normative references to international publications with their corresponding European publications	
Annex ZB (normative) Special national conditions	
Annex ZD (informative) IEC and CENELEC code designations for flexible cords	
Delete all the "country" notes in the reference document (IEC 60950-1:2005) according to the following list:	
1.4.8 Note 2 1.5.1 Note 2 & 3 1.5.7.1 Note	
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	
Delete all the "country" notes in the reference document (IEC 60950-	
, , , , , , , , , , , , , , , , , , , ,	
	Requirement + Test Clauses, subclauses, notes, tables and figures which are additional to those in IEC60950-1 and it's amendmets are prefixed "Z" Add the following annexes: Annex ZA (normative) Normative references to international publications with their corresponding European publications Annex ZB (normative) Special national conditions Annex ZD (informative) IEC and CENELEC code designations for flexible cords Delete all the "country" notes in the reference document (IEC 60950-1:2005) according to the following list: 1.4.8 Note 2 1.5.1 Note 2 & 3 1.5.7.1 Note 1.5.8 Note 2 1.5.9.4 Note 1.7.2.1 Note 4, 5 & 6 2.2.3 Note 2.2.4 Note 2.3.2 Note 2.3.2 Note 2.3.2 Note 2.3.2 Note 3.2.1 Note 2 2.3.4 Note 2 2.6.3.3 Note 2 & 3 3.2.1 Note 2 2.3.4 Note 3 2.5.1 Note 3 3.2.1 Note 3 3.2.4 Note 3 2.5.1 Note 2 4.3.6 Note 1 & 2 4.7 Note 4 4.7.2.2 Note 4.7.3.1Note 2 5.1.7.1 Note 3 & 4 5.3.7 Note 1 & 2 6.2.2 Note 6.2.2 Note 6.2.2.1 Note 2 6.2.2.2 Note 7.1 Note 3 7.2 Note 7.3 Note 1 & 2 G.2.1 Note 2 6.2.2.2 Note 7.1 Note 3 7.2 Note 7.3 Note 1 & 2 G.2.1 Note 2 Annex H Note 2



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	ATTACHMENT		
Clause	Requirement + Test	Result - Remark	Verdict

	IEC 60950-1, GROUP DIFFERENCES (CENELEC of	common modifications EN)	
Clause	Requirement + Test	Result - Remark	Verdict
General (A2:2013)	Delete all the "country" notes in the reference docu 1:2005/A2:2013) according to the following list: 2.7.1 Note * 2.10.3.1 Note 2 6.2.2. Note * Note of secretary: Text of Common Modification remains uncl		
1.1.1 (A1:2010)	Replace the text of NOTE 3 by the following. NOTE 3 The requirements of EN 60065 may also be used to m equipment. See IEC Guide 112, Guide on the safety of multime 60065 applies.	eet safety requirements for multimedia dia equipment. For television sets EN	
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 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.		P
(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		
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 *		
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.		Р



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		ATTACHMENT		
Clause	Requirement + Test		Result - Remark	Verdict
	IEC 60950-1, GROUP D	DIFFERENCES (CENELEC o	common modifications EN)	
Clause	Requirement + Test		Result - Remark	Verdict
1.7.2.1 (A12.2011)	Sound System. Add the following claus standard and amendm	the addition for Portable se and annex to the existing nents.		N/A
	Zx Protection again players	nst excessive sound pres	sure from personal music	Р
	Zx.1 General This sub-clause speci protection against exc personal music player to the ear. It also spec	essive sound pressure from s that are closely coupled cifies requirements for whones intended for use with		Р
A fo - - - No pla	for personal use, that: – is designed to allow recorded or broadca – primarily uses heady can be worn in or or – allows the user to word in the control of the control o	the user to listen to ast sound or video; and phones or earphones that n or around the ears; and alk around while in use. d-held or body-worn portable CD mobile phones with MP3 type		
		ver and earphones or to be used with personal amply with the requirements		
	The requirements in the music or video mode	nis sub-clause are valid for only.		
	an external amplifier – while the headphone used. NOTE 2 An external amplifi of the personal music playe	nusic player is connected to		
	special sales channels. All			

equipment.



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	ATTACHMENT		
Clause	Requirement + Test	Result - Remark	Verdict

	IEC 60950-1, GROUP DIFFERENCES (CENELEC o	common modifications EN)	
Clause	Requirement + Test	Result - Remark	Verdict
	 analogue personal music players (personal music players 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. 		
	For equipment which is clearly designed or intended for use by young children, the limits of EN 71-1 apply.		
	 Zx.2 Equipment requirements No safety provision is required for equipment that complies with the following: equipment provided as a package (personal music player with its listening device), where the acoustic output LAeq, is ≤ 85 dBA measured while playing the fixed "programme simulation noise" as described in EN 50332-1; and 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. NOTE 1 Wherever the term acoustic output is used in this clause, the 30 s A-weighted equivalent sound pressure level LAeq, is meant. See also Zx.5 and Annex Zx. All other equipment shall: a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and b) have a standard acoustic output level not 	98.2mV measured as described in EN 50332-2.	P
	exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the power is switched off; and		



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	ATTA	CHMENT	
Clause	Requirement + Test	Result - Remark	Verdict

Olause	requirement i rest	Result Remain	Verdict
	IEC 60950-1, GROUP DIFFERENCES (CENELEC	common modifications EN)	
Clause	Requirement + Test	Result - Remark	Verdict
	c) 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 acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time; and NOTE 2 Examples of means include visual or audible signals. 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 has been switched off. d) have a warning as specified in Zx.3; and e) not exceed the following: 1) equipment provided as a package (player with Its listening device), the acoustic output shall be ≤ 100 dBA measured while playing the fixed "programme simulation noise" described in EN 50332-1; and 2) a personal music player provided with an analogue electrical output socket for a listening device, the electrical output shall be ≤ 150 mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" described in EN 50332-1.		
	For music where the average sound pressure (long term LAeq,T) measured over the duration of the song is lower than the average produced by 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 dBA. In this case T becomes the duration of the song. NOTE 4 Classical music typically has an average sound pressure (long term LAeq,T) which is much lower than the average programme simulation noise. Therefore, if the player is capable to 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 dBA. For example, if the player is set with the programme simulation noise to 85 dBA, but the average music level of the song is only 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.		



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ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

	IEC 60950-1, GROUP DIFFERENCES (CENELEC common modifications EN)
Clause	Requirement + Test Result - Remark	Verdict
	Zx.3 Warning The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following: - the symbol of Figure 1 with a minimum height of 5 mm; and - the following wording, or similar:	N/A
	"To prevent possible hearing damage, do not listen at high volume levels for long periods." Figure 1 – Warning label (IEC 60417-6044) 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.	
	Zx.4 Requirements for listening devices (headphones and earphones)	N/A
	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. This requirement is applicable in any mode where the headphones can operate (active or passive), including any available setting (for	N/A
	example built-in volume level control). NOTE The values of 94 dBA – 75 mV correspond with 85dBA – 27 mV and 100 dBA – 150 mV.	



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	ATTACH	MENT	
Clause	Requirement + Test	Result - Remark	Verdict

Clause	Requirement + Test	Result - Remark	Verdict
	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.		N/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 like equalization, etc.).		
	NOTE An example of a wired listening device with digital input is a USB headphone.		
	 Zx.4.3 Wireless listening devices In wireless mode: with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and respecting the wireless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and 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. NOTE An example of a wireless listening device is a Bluetooth 		N/A
	headphone. Zx.5 Measurement methods 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. NOTE Test method for wireless equipment provided without		P



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		<u> </u>	
	ATTACHMENT		
Clause	Requirement + Test	Result - Remark	Verdict

	IEC 60950-1, GROUP DIFFERENCES (CENELEC o	common modifications EN)	
Clause	Requirement + Test	Result - Remark	Verdict
2.7.1	Replace the subclause as follows: Basic requirements 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): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.3 shall be included as parts of the equipment;		N/A
	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;		
	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. If reliance is placed on protection in the building		N/A
	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.		
2.7.2	This subclause has been declared 'void'.		
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.		N/A



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ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

	IEC 60950-1, GROUP DIFFERENCES (CENELEC	common modifications EN)	
Clause	Requirement + Test	Result - Remark	Verdict
3.2.5.1	Replace "60245 IEC 53" by "H05 RR-F";		N/A
	In the conditions applicable to Table 3B delete the words "in some countries" in condition a). In NOTE 1, applicable to Table 3B, delete the second sentence.		
3.2.5.1 (A2:2013)	NOTE Z1 The harmonised code designations corresponding to the IEC cord types are given in Annex ZD		N/A
3.3.4	In Table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following: 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		N/A
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 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).		N/A
	Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC.		N/A



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	ATTACHMENT		
Clause	Requirement + Test	Result - Remark	Verdict

	IEC 60950-1, GROUP DIFFERENCES (CENELEC common modifications EN)			
Clause	Requirement + Test	Result - Remark	Verdict	
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. Replace the notes as follows: NOTE These values appear in Directive 96/29/Euratom. Delete NOTE 2.	The unit does not emit X-ray radiation.	N/A	
Bibliography	Additional EN standards.			

ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH	_
	THEIR CORRESPONDING EUROPEAN PUBLICATIONS	

	ZB ANNEX (normative)			
SPECIAL NATIONAL CONDITIONS (EN)				
Clause	Requirement + Test	Result - Remark	Verdict	
1.2.4.1	In Denmark , 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.		N/A	
1.2.13.14 (A11:2009)	In Norway and Sweden , for requirements see 1.7.2.1 and 7.3 of this annex.		N/A	
1.5.7.1 (A11:2009)	In Finland, Norway and Sweden, resistors 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 resistor is used, the resistor must withstand the resistor test in 1.5.7.2.		N/A	
1.5.8	In Norway , 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).	Should be considered when market into these countries	N/A	
1.5.9.4	In Finland , Norway and Sweden , the third dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.	Should be considered when market into these countries	N/A	



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ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.2.1	In Finland, Norway and Sweden, 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" In Sweden: "Apparaten skall anslutas till jordat uttag"		N/A
1.7.2.1 (A11:2009)	In Norway and Sweden , 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. 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. 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: "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)."		



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ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

	ZB ANNEX (normative)		
	SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement + Test	Result - Remark	Verdict	
	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. Translation to Norwegian (the Swedish text will		N/A	
	also be accepted in Norway):			
	"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."			
	Translation to Swedish:			
	"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 medföra risk för brand. För att undvika detta skall vid anslutning av utrustningen till kabel-TV nät galvanisk isolator finnas mellan utrustningen och kabel-TV nätet."			
1.7.2.1 (A2:2013)	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.		N/A	
	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."			



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ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

	ZB ANNEX (normative)				
	SPECIAL NATIONAL CONDITIONS (EN)				
Clause	Requirement + Test	Result - Remark	Verdict		
1.7.5	In Denmark , 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.		N/A		
1.7.5 (A11:2009)	For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DKA 1-4a.				
1.7.5 (A2:2013)	In Denmark , 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		N/A		
2.2.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.		N/A		
2.3.2	In Finland , Norway and Sweden there are additional requirements for the insulation. See 6.1.2.1 and 6.1.2.2 of this annex.		N/A		
2.3.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.		N/A		
2.6.3.3	In the United Kingdom , the current rating of the circuit shall be taken as 13 A, not 16 A.		N/A		



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ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

	ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement + Test	Result - Remark	Verdict	
2.7.1	In the United Kingdom , 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.		N/A	
2.10.5.13	In Finland , Norway and Sweden , there are additional requirements for the insulation, see 6.1.2.1 and 6.1.2.2 of this annex.		N/A	
3.2.1.1	In Switzerland , 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		N/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 the following dimension sheets, published in February 1998: SEV 5932-2.1998: Plug Type 25 , 3L+N+PE 230/400 V, 16 A SEV 5934-2.1998: Plug Type 21, L+N, 250 V, 16A		N/A	



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ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

	ZB ANNEX (normative)		
	SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement + Test	Result - Remark	Verdict	
3.2.1.1	In Denmark , 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-		N/A	
	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.			
	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.			
3.2.1.1 (A2:2013)	In Denmark , supply cords of single-phase equipment having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-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. If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2. Justification the Heavy Current Regulations, 6c		N/A	



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ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

	ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement + Test	Result - Remark	Verdict	
3.2.1.1	In Spain , 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.		N/A	
	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.			
	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.			
	If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.			
3.2.1.1	In the United Kingdom , 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. NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.		N/A	
3.2.1.1	In Ireland , 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.		N/A	
3.2.4	In Switzerland , for requirements see 3.2.1.1 of this annex.		N/A	



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ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

	ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement + Test	Result - Remark	Verdict	
3.2.5.1	In the United Kingdom , 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.		N/A	
3.3.4	In the United Kingdom , 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: • 1,25 mm² to 1,5 mm² nominal cross-sectional area.		N/A	
4.3.6	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.		N/A	
4.3.6	In Ireland, 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.		N/A	



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	ATTACHMENT		
Clause	Requirement + Test	Result - Remark	Verdict

ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement + Test	Result - Remark	Verdict
5.1.7.1	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 PERMANENTLY CONNECTED EQUIPMENT.		N/A



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		ATTACHMENT		
Clause	Requirement + Test		Result - Remark	Verdict

	ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)		
Clause	Requirement + Test	Result - Remark	Verdict
Clause 6.1.2.1 (A1:2010)	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 with the compliance clause below and in addition - 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	Result - Remark	Verdict N/A
	2.10.10 shall be performed using 1,5 kV), and - is subject to ROUTINE TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV.		



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ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

	ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)		
Clause	Requirement + Test	Result - Remark	Verdict
	It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b).		N/A
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.		
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:		
	- 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;		
	- the additional testing shall be performed on all the test specimens as described in EN 60384-14:		
	- 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.		
6.1.2.2	In Finland, Norway and Sweden, 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.		N/A
7.2	In Finland , Norway and Sweden , 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.		N/A
7.3 (A11:2009)	In Norway and Sweden , for requirements see 1.2.13.14 and 1.7.2.1 of this annex.		N/A



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ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

Annex ZD (informative)

IEC and CENELEC code designations for flexible cords

Type of flexible cord	Type of flexible cord Code designations	
	IEC	CENELEC
PVC insulated cords		
Flat twin tinsel cord	60227 IEC 41	H03VH-Y
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F
		H03VVH2-F
Ordinary polyvinyl chloride sheathed flexible cord	60277 IEC 53	H05VV-F
		H05VVH2-F
Rubber insulated cords		
Braided cord	60245 IEC 51	H03RT-F
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F
Cords having high flexibility		
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03RV4-H
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H



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Attachment: Photos of the product:

Photo 1

Description: Overview



Photo 2

Description: Overview





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Photo 3

Description: Overview



Photo 4

Description: Internal view





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Photo 5

Description: Internal view



Photo 6

Description: Battery view





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Photo 7

Description: Battery view



Photo 8

Description: Internal view





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Photo 9

Description: Internal view

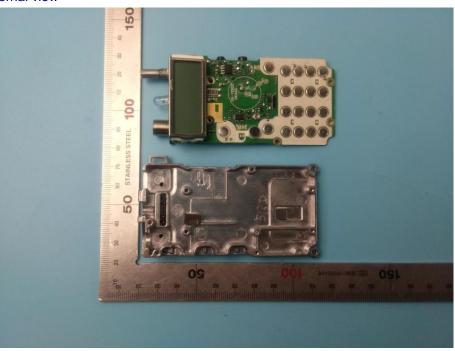
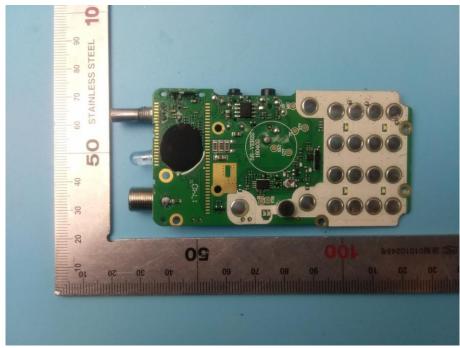


Photo 10

Description: PCB view

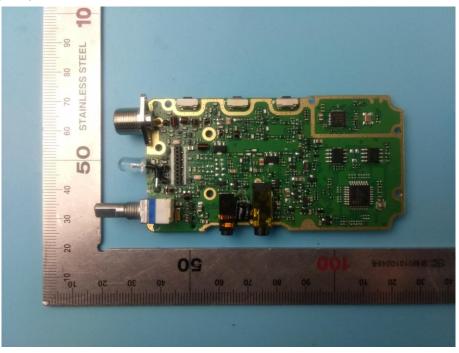




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Photo 11

Description: PCB view



---The End of Report---