



## KOHL'S TEST PROTOCOL

Approved: March 27, 2017

**Title:** SMALL DEVICES  
(NON BATTERY OPERATED – HEADPHONE)  
**Protocol Number:** KOHL'S – 317 – E

Test Property	Test Method	Samples	Test Principle / Requirements	Rating (Section or exec. Summary which failed items can be referenced)
---------------	-------------	---------	-------------------------------	---

Labeling / Packaging Review	FPLA 16 CFR 500 & 19 CFR 134	All Samples	Should be legibly marked with the following information: <ul style="list-style-type: none"> <li>Distributor's name, trademark or other means of identification of the manufacturer or packer &amp; address (City, State &amp; Zip)</li> <li>Product identification</li> <li>Net quantity of the contents in terms of weight, measure or numerical count (Metric &amp; US Standard) or a combination so as to give accurate information and facilitate value comparison by the consumer</li> <li>Country of origin (if imported)</li> </ul>	
Verify Label Claims	Visual Check	All Samples	The labeling must comply and valid with all claims.	
"L" and "R" marking	Visual Check	All Samples	Stereo earphone shall be marked with "R" and "L" for each ear.	

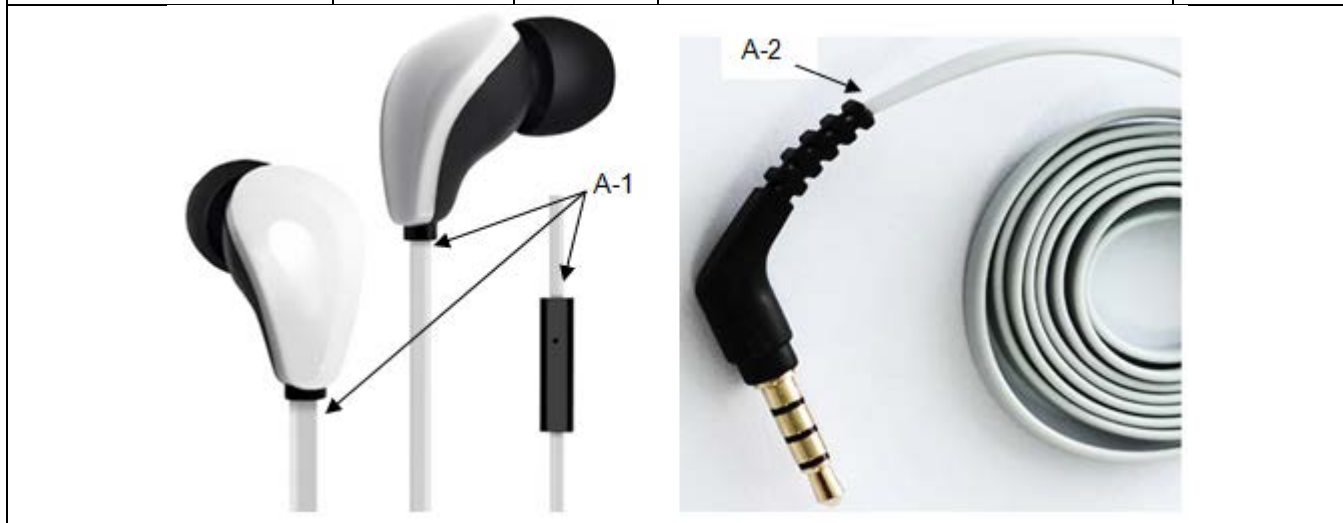
<b>PHYSICAL CHARACTERISTICS</b>				
None				

<b>CONSTRUCTION QUALITIES</b>				
Kohl's Workmanship Review	Visual Check / Actual Use	1 Sample	<ul style="list-style-type: none"> <li>All components shall be provided as claimed and shall not be deformed or fractured.</li> <li>All hardware shall be provided</li> <li>All welds shall be smoothly finished and free from pits and splatter</li> <li>All components shall not contain any burrs or sharp edges (Test by touch or sight)</li> <li>Product shall not contain any loose components or unsecured fastening where rigidity is required</li> </ul>	
Connection of Earphone	Actual Use	1 Sample	For stereo earphone: Left earphone to left sound channel; Right earphone to right earphone.	

<b>PERFORMANCE</b>				
Rubbing Test	General Requirement	1 Sample	Rubbing the marking by hand for 15s with a piece of cloth soaked with water and at a different place or on a second sample, for 15s with a piece of cloth soaked with petroleum spirit. After this the marking shall be legible; it shall not be easily possible to remove marking plates and they shall show no curling.	

**Title: SMALL DEVICES  
(NON BATTERY OPERATED – HEADPHONE)**  
**Protocol Number: KOHL'S – 317 – E**

Sound Output	Actual Use	1 Sample	Good overall sound quality with no lead slap, bottoming, buzzing, or cone breakup when listening to various tones and music.	
AC Impedance at 1kHz	IEC60268-7	1 Sample	Shall be not less than 80% of the claimed value.	
Frequency Range	IEC60268-7	1 Sample	Shall not be narrower than the claimed range.	
Fit Characteristics Of Plug	Actual Use	1 Sample	Shall fit recognized receptacles without any exposure of live parts and with good conduction	
8 Hour Test	Actual Use	1 Sample	There shall not be any deterioration after 8 hours of consecutive use	
Humidity Test	Kohl's TM 31	1 Sample	No failure @ 95% RH @ 100° F (38° C) for 24 Hours	
Fixing Strength Test	EIA-364-38B	1 Sample	Cord Exit (A-1): 1.5 KG for 1 min Plug Molding (A-2): 3 KG for 1 min	
Cord Bending Test	EIA-364-41C	1 Sample	(A-1): 1,000 times, Load:100g, Bending Angle: ±90° , Bending Speed 20~25 times/min. (A-2) : 3,000 times, Load:100g, Bending Angle: ±90° , Bending Speed 20-25 times/min.	



#Claim Verification (If Claimed)	Visual Check / Actual Use	1 Sample	All designs and features must conform to actual claim	Claim:
----------------------------------	---------------------------	----------	---	--------



# KOHL'S TEST PROTOCOL

Approved: March 27, 2017

**Title:** SMALL DEVICES  
 (NON BATTERY OPERATED – HEADPHONE)  
**Protocol Number:** KOHL'S – 317 – E

<b>COLORFASTNESS</b>				
Dry Crocking	AATCC 8/116	1 Sample	Class 4.0 (textile) Class 3.0 (leather/suede/denim/inner lining)	
Wet Crocking	AATCC 8/116	1 Sample	Class 3.0 (textile) Class 2.0 (leather/suede/denim/inner lining)	
Light Fading	AATCC 16 Option 3 10AFU	1 Sample	Class 4.0 (textile), Class 3.0 (leather/suede)	
Perspiration	AATCC 15	1 Sample	Class 3.0 (textile/leather)	

<b>ANALYTICAL</b>				
*Lead In Scrapable Surface Coating	CPSC-CH-E1003-09	1 Sample	≤90 ppm (0.0090% by weight)  (CPSA – 16 CFR 1303)	
* CA Prop 65	Refer to Protocol 1300	All Samples	All samples shall be reviewed against the requirements of California Proposition 65 to determine if additional testing or labeling is required.	
*pH Value	AATCC 81	1 Sample	6.0 – 8.0	
*Formaldehyde	Kohl's TM-5 JIS L 1041: 2000- Sec 6.3.1 (b) Method A or B	1 Sample	Negative, If Spot Test is Positive, proceed with step 2  Children over 4 & Adults = 75ppm max. Children 0-4 = 0.05 Absorbency max.	



KOHL'S TEST PROTOCOL

Approved: March 27, 2017

Title: SMALL DEVICES  
(NON BATTERY OPERATED – HEADPHONE)  
Protocol Number: KOHL'S – 317 – E

PRICING AND ADDITIONAL NOTE:

***\*\*Please refer to Kohl's preferred third party labs for individual pricing and sample size***



## KOHL'S TEST PROTOCOL

Title: **SMALL DEVICES  
(NON BATTERY OPERATED – HEADPHONE)**  
Protocol Number: **KOHL'S – 317 – E**

Protocol Version	Description of Change	Revised by / Date	Approved by / Date
317 – 0	Initial Release	CY Chan Feb 20, 2004	Roger Mayerson Mar 08, 2004
317 – 1	Price Adjustment	Simon Leung Oct. 31, 2008	Ro Jain Oct. 31, 2008
317-A	Added lead in PVC, Cal Prop 65 Warning req., pricing update, added CF testing, strength and durability, phthalates	Elizabeth Armstrong April 19, 2012	Ro Jain April 19, 2012
317-B	Separate the test line of Prop 65 to supplementary protocol	Winnie Yu Mar 18, 2013	Ro Jain April 15, 2013
317-C	Price Adjustment for below test items : Lead content, CF to Dry & Wet Crocking, CF to Light Fading, CF to Perspiration and Phthalates	Candy Chan Jul 30, 2014	Jeetendra Shelatkar Aug 18, 2014
317-D	Renamed all in-house methods	Candy Chan Sep. 4, 2014	
317-E	Updated the protocol for Headphone	Nathan Yang Mar 31, 2017	Elizabeth Armstrong March 27, 2017