

Test Report

Report No.: AGC-04094-19-09-11-001

Date: Sep.17, 2019

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Applicant: Xindao B.V.
Address: P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands
Test site: 1,6/F., Building 2, No. 1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong, China

Report on the submitted sample(s) said to be:

Sample Name: 15W Wireless Fast Charger
Sample Model: P308.31
Sample Received Date: Sep.10, 2019
Testing Period: Sep.10, 2019 to Sep.17, 2019

Test Requested: Please refer to following page(s).

Test Method: Please refer to following page(s).

Test Result: Please refer to following page(s).

Approved by: 

Liulinwen, Lewis

Technical Director



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Test Requested:
Conclusion

As specified by client, to determine the Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content in the submitted sample in accordance with Directive 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863 on XRF and Chemical Method.

Pass
Test Methods:

A: Screening by X-ray Fluorescence Spectrometry (XRF) :With reference to IEC 62321-3-1:2013 Screening – Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry

B: Chemical test:

Test Item	Test Method	Measuring Instrument	MDL
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	2 mg/kg
Lead (Pb)	IEC 62321-5:2013	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4: 2013+A1:2017	ICP-OES	2 mg/kg
Non-metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-2:2017	UV-Vis	1 mg/kg
Metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-1:2015	UV-Vis	/
PBBs/PBDEs	IEC 62321-6:2015	GC-MS	5 mg/kg
Di-iso-butyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	50 mg/kg
Dibutyl phthalate (DBP)		GC-MS	50 mg/kg
Butylbenzyl phthalate (BBP)		GC-MS	50 mg/kg
Di-(2-ethylhexyl) Phthalate (DEHP)		GC-MS	50 mg/kg

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Test Results:
A、EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
1	Black rubber sheet(outer shell)	BL	BL	BL	BL	BL
2	Gray metal base shell(outer shell)	BL	BL	BL	BL	N/A
3	Black rubber mats(outer shell)	BL	BL	BL	BL	BL
4	Transparent plastic ring(outer shell)	BL	BL	BL	BL	BL
5	Silver screw(outer shell)	BL	BL	BL	BL	N/A
6	Gray ceramic sheet(induction coil)	BL	BL	BL	BL	BL
7	Double faced adhesive tape(induction coil)	BL	BL	BL	BL	BL
8	Coil wire jacket(induction coil)	BL	BL	BL	X*	BL
9	Brown tape(induction coil)	BL	BL	BL	BL	BL
10	Wire core(induction coil)	BL	BL	BL	BL	N/A
11	IC body(IC)	BL	BL	BL	BL	BL
12	Tin plating(IC)	BL	BL	BL	BL	N/A
13	Chip resistor	BL	BL	BL	BL	BL
14	Chip capacitor	BL	BL	BL	BL	BL
15	Chip LED	BL	BL	BL	BL	BL
16	Chip triode	BL	BL	BL	BL	X*
17	Tin solder	BL	BL	BL	BL	N/A
18	PCB board	BL	BL	BL	BL	X*
19	Red packaging(metal film capacitor)	BL	BL	BL	BL	BL
20	Thin film(metal film capacitor)	BL	BL	BL	BL	BL
21	Micro metal joint(Micro joint)	BL	BL	BL	BL	N/A
22	Black plastic joint(Micro joint)	BL	BL	BL	BL	BL
23	Contact pin(Micro joint)	BL	BL	BL	BL	N/A
USB wire						

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
24	Black handle(USB plug)	BL	BL	BL	BL	BL
25	Black inner glue(USB plug)	BL	BL	BL	BL	BL
26	Tin solder(USB plug)	BL	BL	BL	BL	N/A
27	White plastic plug(USB plug)	BL	BL	BL	BL	BL
28	Contact pin(USB plug)	BL	BL	BL	BL	N/A
29	USB metal plug(USB plug)	BL	BL	BL	BL	N/A
30	Tin solder(Micro plug)	BL	BL	BL	BL	N/A
31	Black plastic plug(Micro plug)	BL	BL	BL	BL	BL
32	Metal thimble(Micro plug)	BL	BL	BL	X*	N/A
33	Contact pin(Micro plug)	BL	BL	BL	BL	N/A
34	Micro metal plug(Micro plug)	BL	BL	BL	X*	N/A
35	Black outer wire jacket(wire rod)	BL	BL	BL	BL	BL
36	Red wire jacket(wire rod)	BL	BL	BL	BL	BL
37	Wire core(wire rod)	BL	BL	BL	BL	N/A
38	Yellow wire jacket(wire rod)	BL	BL	BL	BL	BL
39	Black wire jacket(wire rod)	BL	BL	BL	BL	BL
40	White wire jacket(wire rod)	BL	BL	BL	BL	BL

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Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	$BL \leq 70 - 3\sigma < X$ $< 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma < X$ $< 130 + 3\sigma \leq OL$	$BL \leq 50 - 3\sigma < X$ $< 150 + 3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X$ $< 1500 + 3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X$ $< 1500 + 3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$
Br	mg/kg	$BL \leq 300 - 3\sigma < X$	N/A	$BL \leq 250 - 3\sigma < X$

Note: BL= Below Limit

OL= Over limited

X= Inconclusive

“N/A”= Not applicable

*= Scanning by XRF and detected by chemical method. The test results of chemical method please refer to next pages.

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Remark:

- i Results were obtained by XRF for primary scanning, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the above warning value according to IEC 62321-3-1:2013.
- ii The XRF scanning test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- iii The maximum permissible limit is quoted from RoHS directive 2011/65/EU and its amendment directive (EU) 2015/863:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominateddiphenylethers (PBDEs)	1000
Di-iso-butyl phthalate (DIBP)	1000
Dibutyl phthalate (DBP)	1000
Butylbenzyl phthalate (BBP)	1000
Di-(2-ethylhexyl) Phthalate (DEHP)	1000

Disclaimers:

This XRF Scanning report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF scanning report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

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B、The Test Results of Chemical Method:

1) The Test Results of non-metal Cr⁶⁺

Test Item(s)	Unit	Result(s)	Limit
		8	
Hexavalent Chromium(Cr ⁶⁺)	mg/kg	N.D.	1000

Note: N.D. = Not Detected or less than MDL
mg/kg = parts per million
MDL = Method Detection Limit

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2)The Test Results of metalCr⁶⁺

Test Item(s)	MDL	Result(s)		Limit
		32	34	
Hexavalent Chromium (Cr ⁶⁺)	See note	Negative	Negative	#

Note:

- Negative = Absence of Cr(VI) on the tested areas
- MDL = Method Detection Limit
- Boiling-water-extraction:

Number	Colorimetric result (Cr(VI) concentration)	Qualitative result
1	The sample solution is < the 0,10 µg/cm ² equivalent comparison standard solution	The sample is negative for Cr(VI) – The Cr(VI) concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.
2	The sample solution is ≥ the 0,10 µg/cm ² and ≤ the 0,13 µg/cm ² equivalent comparison standard solutions	The result is considered to be inconclusive – Unavoidable coating variations may influence the determination.
3	The sample solution is > the 0,13 µg/cm ² equivalent comparison standard solution	The sample is positive for Cr(VI) – The Cr(VI) concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

- # = Negative indicates the absence of Cr(VI) on the tested areas concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.
- Uncertainty indicates the absence of Cr(VI) on the tested areas unavoidable coating variations may influence the determination.
- Positive indicates the presence of Cr(VI) on the tested areas concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).
- Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status of the sample at the time of testing.

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3) The Test Results of PBBs & PBDEs

Unit: mg/kg

Item(s)	MDL	Result(s)		Limit
		16	18	
Polybrominated Biphenyls (PBBs)				
Monobromobiphenyl	5	N.D.	N.D.	Total PBBs Content <1000
Dibromobiphenyl	5	N.D.	N.D.	
Tribromobiphenyl	5	N.D.	N.D.	
Tetrabromobiphenyl	5	N.D.	N.D.	
Pentabromobiphenyl	5	N.D.	N.D.	
Hexabromobiphenyl	5	N.D.	N.D.	
Heptabromobiphenyl	5	N.D.	N.D.	
Octabromobiphenyl	5	N.D.	N.D.	
Nonabromodiphenyl	5	N.D.	N.D.	
Decabromodiphenyl	5	N.D.	N.D.	
Total content	/	N.D.	N.D.	
PolybrominatedDiphenylethers (PBDEs)				
Monobromodiphenyl ether	5	N.D.	N.D.	Total PBDEs Content <1000
Dibromodiphenyl ether	5	N.D.	N.D.	
Tribromodiphenyl ether	5	N.D.	N.D.	
Tetrabromodiphenyl ether	5	N.D.	N.D.	
Pentabromodiphenyl ether	5	N.D.	N.D.	
Hexabromodiphenyl ether	5	N.D.	N.D.	
Heptabromodiphenyl ether	5	N.D.	N.D.	
Octabromodiphenyl ether	5	N.D.	N.D.	
Nonabromodiphenyl ether	5	N.D.	N.D.	
Decabromodiphenyl ether	5	N.D.	N.D.	
Total content	/	N.D.	N.D.	
Conclusion	/	Pass	Pass	/

Note: N.D. = Not Detected or less than MDL
 mg/kg = parts per million
 MDL = Method Detection Limit

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4)Test result of DBP, BBP, DEHP, DIBP content
Unit: mg/kg

Seq. No.	Test item Limit	DIBP	DBP	BBP	DEHP	Conclusion
		1000	1000	1000	1000	
1		N.D.	N.D.	N.D.	N.D.	Pass
3		N.D.	N.D.	N.D.	N.D.	Pass
4		N.D.	N.D.	N.D.	N.D.	Pass
6		N.D.	N.D.	N.D.	N.D.	Pass
7		N.D.	N.D.	N.D.	N.D.	Pass
8		N.D.	N.D.	N.D.	N.D.	Pass
9		N.D.	N.D.	N.D.	N.D.	Pass
11		N.D.	N.D.	N.D.	N.D.	Pass
13		N.D.	N.D.	N.D.	N.D.	Pass
14		N.D.	N.D.	N.D.	N.D.	Pass
15		N.D.	N.D.	N.D.	N.D.	Pass
16		N.D.	N.D.	N.D.	N.D.	Pass
18		N.D.	N.D.	N.D.	N.D.	Pass
19		N.D.	N.D.	N.D.	N.D.	Pass
20		N.D.	N.D.	N.D.	N.D.	Pass
22		N.D.	N.D.	N.D.	N.D.	Pass
24		N.D.	N.D.	N.D.	N.D.	Pass
25		N.D.	N.D.	N.D.	N.D.	Pass
27		N.D.	N.D.	N.D.	N.D.	Pass
31		N.D.	N.D.	N.D.	N.D.	Pass
35		N.D.	N.D.	N.D.	N.D.	Pass
36		N.D.	N.D.	N.D.	N.D.	Pass
38		N.D.	N.D.	N.D.	N.D.	Pass
39		N.D.	N.D.	N.D.	N.D.	Pass
40		N.D.	N.D.	N.D.	N.D.	Pass

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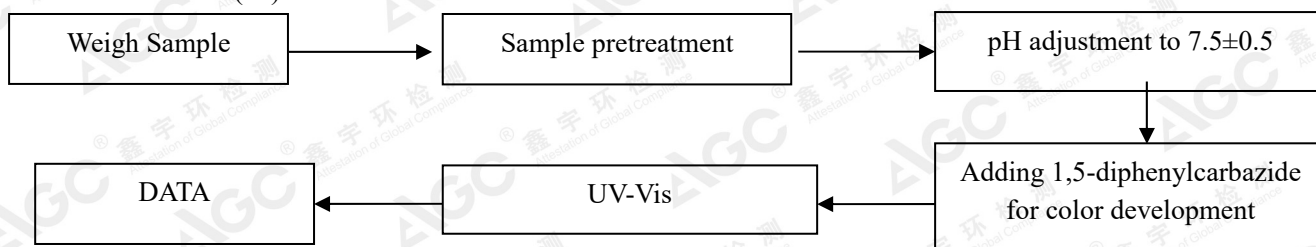
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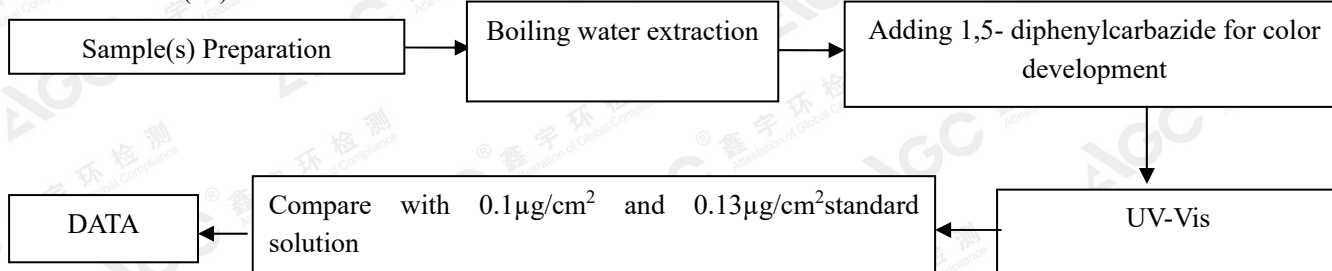
Note: 1. MDL=Method Detection Limit
2. N.D.=Not Detected(less than method detection limit)

Test Flow Chart

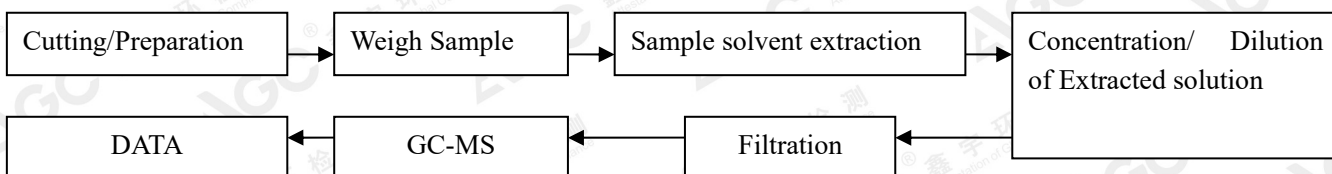
1.For non-metal Cr(VI)



2.For metal Cr(VI)



3.For PBBs, PBDEs, DBP, BBP, DEHP, DIBP



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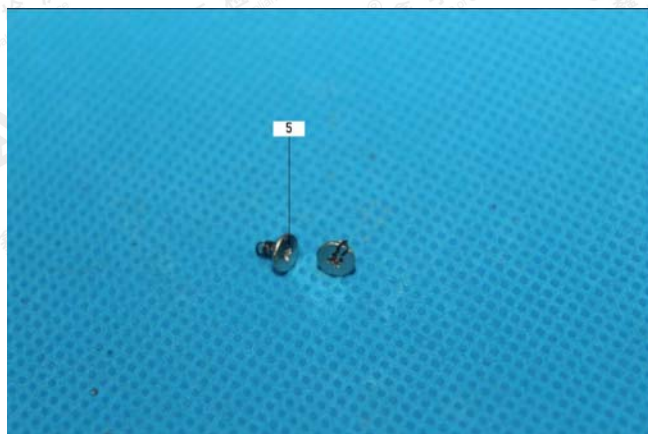
The photo of the sample



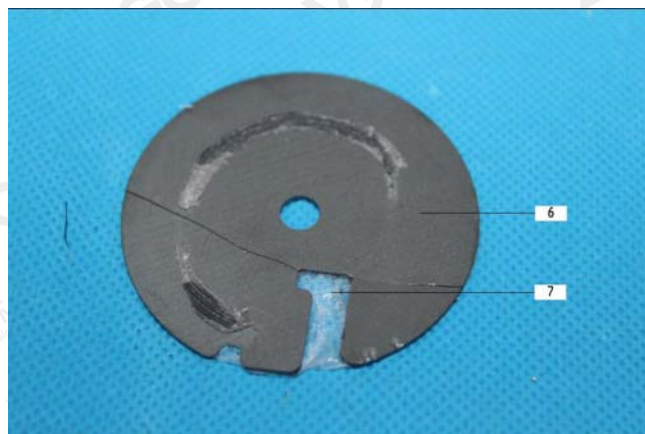
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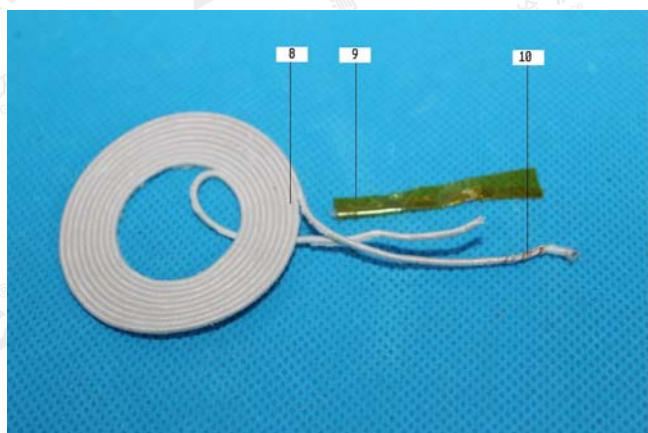
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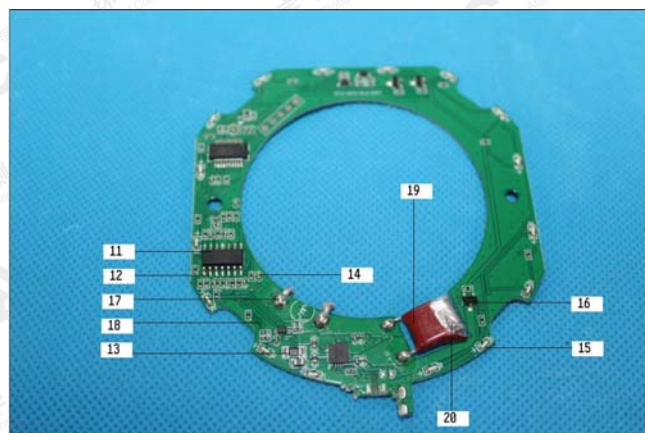
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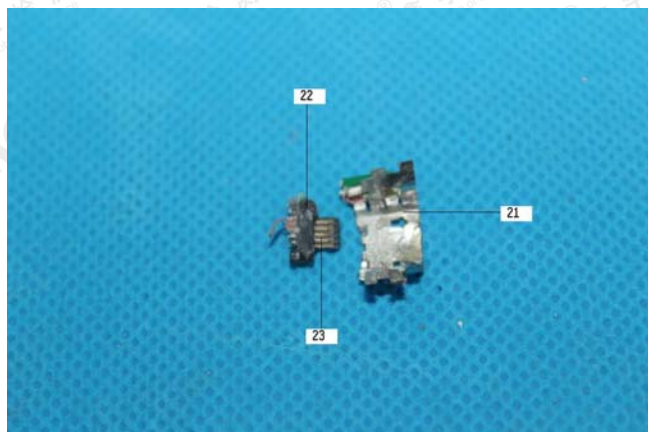
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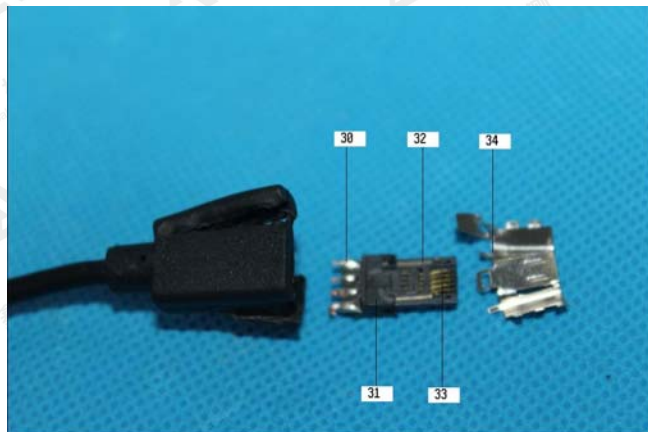
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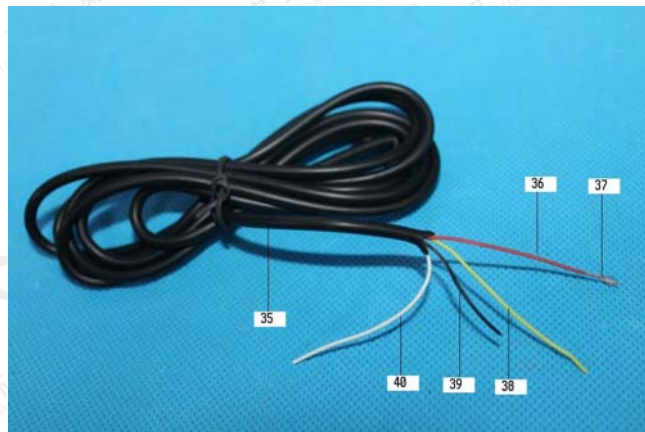
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11



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