

**TEST REPORT**

Report No:TR1732760

Date:11.06.2020

**ÜNAL KABLO SAN. TİC. A.Ş.**  
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**To the attention of Bahar Koyuncu**

The following sample(s) was /were submitted and identified by/on behalf of the clients as:

Sample Submitted By : ÜNAL KABLO SAN. TİC. A.Ş.  
Sample Description : See the following page.  
Sample Receiving Date : 20 May 2020  
Testing Period : 20 May 2020 ~ 11 June 2020  
Test Requested : Selected test(s) as requested by client.  
Test Method : Please refer to next page(s)  
Test Result(s) : Please refer to next page(s)

Conclusion : Based on the performed tests on selected part of submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Unless further specified in an individual contract the sample(s) retention time is 30 days"

In this Test Report tests marked (1) are included in the TURKAK Accreditation Scope of this Laboratory.

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The test results relate to the tested items only.  
Test reports without SGS seal and authorized signatures are invalid.  
Reported results do not include uncertainties.

Issued in Istanbul  
Signed for and on behalf of  
SGS Supervise Gözetme Etüd  
Kontrol Servisleri A.Ş.

Uğur Yılmaz  
Hardline & CPCH Customer Services Team Leader

Bora Şirinbilek  
Hardline & CPCH Testing Services Manager



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## Test Part Description:

### PVC/XLPE/SILICON/HFFR/PLUG CABLE/SOLDERED CABLE

## CONCLUSION

Test Part Description	CONCLUSION
1.1 Green-Yellow Plastic Pvc Cable	PASS
1.2 Brown Plastic Pvc Cable	PASS
1.3 Blue Plastic Pvc Cable	PASS
1.4 Transparent Plastic Pe Stick	PASS
1.5 Blue Plastic Wire Edge Cable	PASS
1.6 Brown Plastic Wire Edge Cable	PASS
1.7 Silver Metal Wire Of Blue Cables	PASS
1.8 Gold Metal Wire Edge Part Of Brown Cables	PASS
1.9 Bronze Metal Wire Of Brown Cables	PASS
1.10 Grey Silicon Part	PASS
1.11 Black Plastic Hffr Part	PASS
1.12 Brown Plastic Xlpe Cable	PASS
1.13 Black Plastic Xlpe Cable	PASS
1.14 Grey Plastic Xlpe Cable	PASS
1.15 Black Plastic Plug	PASS
1.16 White Plastic Plug	PASS
1.17 Silver Metal Plug Socket Of The Black & White Sample	PASS
1.18 Silver Metal Plug Inner Plate Of The Black & White Sample	PASS

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<b>Test Item(s):</b>	<b>RESULTS</b>		
	<b>1.1</b>	<b>1.2</b>	<b>1.3</b>
Cadmium(Cd)	<b>1.16</b>	<b>1.16</b>	<b>1.16</b>
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (µg/cm <sup>2</sup> ) (for metal)	ND	ND	ND
Flame Retardants	NA	NA	NA
<b>Sum of PBBs</b>			
Monobromobiphenyl	<b>ND</b>	<b>ND</b>	<b>ND</b>
Dibromobiphenyl	ND	ND	ND
Tribromobiphenyl	ND	ND	ND
Tetrabromobiphenyl	ND	ND	ND
Pentabromobiphenyl	ND	ND	ND
Hexabromobiphenyl	ND	ND	ND
Heptabromobiphenyl	ND	ND	ND
Octabromobiphenyl	ND	ND	ND
Nonabromobiphenyl	ND	ND	ND
Decabromobiphenyl	ND	ND	ND
<b>Sum of PBDEs</b>	ND	ND	ND
Monobromodiphenyl ether	<b>ND</b>	<b>ND</b>	<b>ND</b>
Dibromodiphenyl ether	ND	ND	ND
Tribromodiphenyl ether	ND	ND	ND
Tetrabromodiphenyl ether	ND	ND	ND
Pentabromodiphenyl ether	ND	ND	ND
Hexabromodiphenyl ether	ND	ND	ND
Heptabromodiphenyl ether	ND	ND	ND
Octabromodiphenyl ether	ND	ND	ND
Nonabromodiphenyl ether	ND	ND	ND
Decabromodiphenyl ether	ND	ND	ND
<b>Phthalates</b>	ND	ND	ND
Dibutyl phthalate (DBP)			
Butyl benzyl phthalate (BBP)	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND
Diisobutyl Phthalates (DIBP)	ND	ND	ND

Remarks :	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	µg/cm <sup>2</sup> = Microgram per square centimeter		
	mg/kg with 50 cm <sup>2</sup> = Milligram per kilogram with 50 square centimetre		
	ND = Not detected (<MDL)	NA = Not applicable	NR = Not requested
	MDL = Method Detection Limit		

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<b>Test Item(s):</b>	<b>RESULTS</b>		
	<b>1.4</b>	<b>1.5</b>	<b>1.6</b>
Cadmium(Cd)	<b>1.16</b>	<b>1.16</b>	<b>1.16</b>
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) ( $\mu\text{g}/\text{cm}^2$ ) (for metal)	ND	ND	ND
Flame Retardants	NA	NA	NA
<b>Sum of PBBs</b>			
Monobromobiphenyl	<b>ND</b>	<b>ND</b>	<b>ND</b>
Dibromobiphenyl	ND	ND	ND
Tribromobiphenyl	ND	ND	ND
Tetrabromobiphenyl	ND	ND	ND
Pentabromobiphenyl	ND	ND	ND
Hexabromobiphenyl	ND	ND	ND
Heptabromobiphenyl	ND	ND	ND
Octabromobiphenyl	ND	ND	ND
Nonabromobiphenyl	ND	ND	ND
Decabromobiphenyl	ND	ND	ND
<b>Sum of PBDEs</b>	ND	ND	ND
Monobromodiphenyl ether	<b>ND</b>	<b>ND</b>	<b>ND</b>
Dibromodiphenyl ether	ND	ND	ND
Tribromodiphenyl ether	ND	ND	ND
Tetrabromodiphenyl ether	ND	ND	ND
Pentabromodiphenyl ether	ND	ND	ND
Hexabromodiphenyl ether	ND	ND	ND
Heptabromodiphenyl ether	ND	ND	ND
Octabromodiphenyl ether	ND	ND	ND
Nonabromodiphenyl ether	ND	ND	ND
Decabromodiphenyl ether	ND	ND	ND
<b>Phthalates</b>	ND	ND	ND
Dibutyl phthalate (DBP)			
Butyl benzyl phthalate (BBP)	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND
Diisobutyl Phthalates (DIBP)	ND	ND	ND

Remarks :	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	$\mu\text{g}/\text{cm}^2$ = Microgram per square centimeter		
	mg/kg with 50 $\text{cm}^2$ = Milligram per kilogram with 50 square centimetre		
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<b>Test Item(s):</b>	<b>RESULTS</b>		
	<b>1.7</b>	<b>1.8</b>	<b>1.9</b>
Cadmium(Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	NA	NA	NA
Hexavalent Chromium (Cr(VI)) ( $\mu\text{g}/\text{cm}^2$ ) (for metal)	ND	ND	ND
Flame Retardants			
<b>Sum of PBBs</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
Monobromobiphenyl	NA	NA	NA
Dibromobiphenyl	NA	NA	NA
Tribromobiphenyl	NA	NA	NA
Tetrabromobiphenyl	NA	NA	NA
Pentabromobiphenyl	NA	NA	NA
Hexabromobiphenyl	NA	NA	NA
Heptabromobiphenyl	NA	NA	NA
Octabromobiphenyl	NA	NA	NA
Nonabromobiphenyl	NA	NA	NA
Decabromobiphenyl	NA	NA	NA
<b>Sum of PBDEs</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
Monobromodiphenyl ether	NA	NA	NA
Dibromodiphenyl ether	NA	NA	NA
Tribromodiphenyl ether	NA	NA	NA
Tetrabromodiphenyl ether	NA	NA	NA
Pentabromodiphenyl ether	NA	NA	NA
Hexabromodiphenyl ether	NA	NA	NA
Heptabromodiphenyl ether	NA	NA	NA
Octabromodiphenyl ether	NA	NA	NA
Nonabromodiphenyl ether	NA	NA	NA
Decabromodiphenyl ether	NA	NA	NA
<b>Phthalates</b>			
Dibutyl phthalate (DBP)	NA	NA	NA
Butyl benzyl phthalate (BBP)	NA	NA	NA
Bis (2-ethylhexyl) phthalate (DEHP)	NA	NA	NA
Diisobutyl Phthalates (DIBP)	NA	NA	NA

Remarks :	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	$\mu\text{g}/\text{cm}^2$ = Microgram per square centimeter		
	mg/kg with 50 $\text{cm}^2$ = Milligram per kilogram with 50 square centimetre		
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<b>Test Item(s):</b>	<b>RESULTS</b>		
	<b>1.10</b>	<b>1.11</b>	<b>1.12</b>
Cadmium(Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) ( $\mu\text{g}/\text{cm}^2$ ) (for metal)	NA	NA	NA
Flame Retardants			
<b>Sum of PBBs</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
Monobromobiphenyl	ND	ND	ND
Dibromobiphenyl	ND	ND	ND
Tribromobiphenyl	ND	ND	ND
Tetrabromobiphenyl	ND	ND	ND
Pentabromobiphenyl	ND	ND	ND
Hexabromobiphenyl	ND	ND	ND
Heptabromobiphenyl	ND	ND	ND
Octabromobiphenyl	ND	ND	ND
Nonabromobiphenyl	ND	ND	ND
Decabromobiphenyl	ND	ND	ND
<b>Sum of PBDEs</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
Monobromodiphenyl ether	ND	ND	ND
Dibromodiphenyl ether	ND	ND	ND
Tribromodiphenyl ether	ND	ND	ND
Tetrabromodiphenyl ether	ND	ND	ND
Pentabromodiphenyl ether	ND	ND	ND
Hexabromodiphenyl ether	ND	ND	ND
Heptabromodiphenyl ether	ND	ND	ND
Octabromodiphenyl ether	ND	ND	ND
Nonabromodiphenyl ether	ND	ND	ND
Decabromodiphenyl ether	ND	ND	ND
<b>Phthalates</b>			
Dibutyl phthalate (DBP)	ND	ND	ND
Butyl benzyl phthalate (BBP)	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND
Diisobutyl Phthalates (DIBP)	ND	ND	ND

Remarks :	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	$\mu\text{g}/\text{cm}^2$ = Microgram per square centimeter		
	mg/kg with 50 $\text{cm}^2$ = Milligram per kilogram with 50 square centimetre		
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<b>Test Item(s):</b>	<b>RESULTS</b>		
	<b>1.13</b>	<b>1.14</b>	<b>1.15</b>
Cadmium(Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) ( $\mu\text{g}/\text{cm}^2$ ) (for metal)	NA	NA	NA
Flame Retardants			
<b>Sum of PBBs</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
Monobromobiphenyl	ND	ND	ND
Dibromobiphenyl	ND	ND	ND
Tribromobiphenyl	ND	ND	ND
Tetrabromobiphenyl	ND	ND	ND
Pentabromobiphenyl	ND	ND	ND
Hexabromobiphenyl	ND	ND	ND
Heptabromobiphenyl	ND	ND	ND
Octabromobiphenyl	ND	ND	ND
Nonabromobiphenyl	ND	ND	ND
Decabromobiphenyl	ND	ND	ND
<b>Sum of PBDEs</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
Monobromodiphenyl ether	ND	ND	ND
Dibromodiphenyl ether	ND	ND	ND
Tribromodiphenyl ether	ND	ND	ND
Tetrabromodiphenyl ether	ND	ND	ND
Pentabromodiphenyl ether	ND	ND	ND
Hexabromodiphenyl ether	ND	ND	ND
Heptabromodiphenyl ether	ND	ND	ND
Octabromodiphenyl ether	ND	ND	ND
Nonabromodiphenyl ether	ND	ND	ND
Decabromodiphenyl ether	ND	ND	ND
<b>Phthalates</b>			
Dibutyl phthalate (DBP)	ND	ND	ND
Butyl benzyl phthalate (BBP)	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND
Diisobutyl Phthalates (DIBP)	ND	ND	ND

Remarks :	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	$\mu\text{g}/\text{cm}^2$ = Microgram per square centimeter		
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<b>Test Item(s):</b>	<b>RESULTS</b>		
	<b>1.16</b>	<b>1.17</b>	<b>1.18</b>
Cadmium(Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	NA	NA
Hexavalent Chromium (Cr(VI)) ( $\mu\text{g}/\text{cm}^2$ ) (for metal)	NA	ND	ND
Flame Retardants			
<b>Sum of PBBs</b>	<b>ND</b>	<b>NA</b>	<b>NA</b>
Monobromobiphenyl	ND	NA	NA
Dibromobiphenyl	ND	NA	NA
Tribromobiphenyl	ND	NA	NA
Tetrabromobiphenyl	ND	NA	NA
Pentabromobiphenyl	ND	NA	NA
Hexabromobiphenyl	ND	NA	NA
Heptabromobiphenyl	ND	NA	NA
Octabromobiphenyl	ND	NA	NA
Nonabromobiphenyl	ND	NA	NA
Decabromobiphenyl	ND	NA	NA
<b>Sum of PBDEs</b>	<b>ND</b>	<b>NA</b>	<b>NA</b>
Monobromodiphenyl ether	ND	NA	NA
Dibromodiphenyl ether	ND	NA	NA
Tribromodiphenyl ether	ND	NA	NA
Tetrabromodiphenyl ether	ND	NA	NA
Pentabromodiphenyl ether	ND	NA	NA
Hexabromodiphenyl ether	ND	NA	NA
Heptabromodiphenyl ether	ND	NA	NA
Octabromodiphenyl ether	ND	NA	NA
Nonabromodiphenyl ether	ND	NA	NA
Decabromodiphenyl ether	ND	NA	NA
<b>Phthalates</b>			
Dibutyl phthalate (DBP)	ND	NA	NA
Butyl benzyl phthalate (BBP)	ND	NA	NA
Bis (2-ethylhexyl) phthalate (DEHP)	ND	NA	NA
Diisobutyl Phthalates (DIBP)	ND	NA	NA

Remarks :	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
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End of Test Report

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