

Technical Report

20-TUV-ATR-EU-0003

**TÜV AUSTRIA TURK**  
BELGELENDİRME EĞİTİM VE GÖZETİM  
HİZMETLERİ LTD. ŞTİ.  
Barbaros Mah. Susuz Sok.  
No:13/1 PK: 34746  
Ataşehir / İSTANBUL – TURKEY  
[www.tuvaustriaturk.com](http://www.tuvaustriaturk.com)



Manufacturer: MEKAS KABLO SAN.ve TİC.A.Ş.  
Type: FLRY-B 2,5 mm<sup>2</sup>

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**The burning behaviour of materials used in the interior  
construction of certain categories of motor vehicles**

Test Standard

**ECE Regulation 118. 03 series of amendments dated October 18, 2018 (Part II)  
as well as tests according to**

Level of amendment

**ECE R-118.03  
(Date 16th October 2018)**

#### Approval Status

Granting of a type approval

Extension to type approval number:

Correction to type approval number:

Only test report

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### 0. General

- 0.1 Applicant **MEKAS KABLO SAN.ve TİC.A.Ş.**  
Osmangazi Mah.Yıldırım Beyazıt Cad.No:28/1  
Sancaktepe/İstanbul -TR
- 0.2 Manufacturer **MEKAS KABLO SAN.ve TİC.A.Ş.**  
Osmangazi Mah.Yıldırım Beyazıt Cad.No:28/1  
Sancaktepe/İstanbul-TR

### 1. Features of the material

- 1.1 Type FLRY-B 2,5 mm<sup>2</sup>
- 1.1.1 Base material / designation PVC
- 1.2 Conductor total size (mm<sup>2</sup>): 2,5 mm<sup>2</sup>
- 1.3 Type of surface material -
- 1.4 Colour Yellow/green
- 1.5 Min. Outside cable diameter 2,7

### 1.6 Equipment for measuring and testing

Equipment	Serial No.	Calibration Date
➤ Stopwatch	AUTO-028	11.07.2019 <input checked="" type="checkbox"/>
➤ Tape measure	AUTO-003	18.02.2019 <input checked="" type="checkbox"/>
➤ Caliper	AUTO-006	18.02.2019 <input checked="" type="checkbox"/>
➤ Thermometer	AUTO-018	15.02.2019 <input checked="" type="checkbox"/>
➤ Probe	AUTO-019	15.02.2019 <input checked="" type="checkbox"/>
➤ Digital scales	AUTO-016	18.03.2019 <input checked="" type="checkbox"/>

- 1.7 Test Location and Date TR-İstanbul / 22.01.2020

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## 2. Test Record

### 2.1 Testing of the burning behaviour of interior materials according to ECE- R 118.03

- ECE- R 118.03 Annex 6
- ECE- R 118.03 Annex 7
- ECE- R 118.03 Annex 8
- ECE- R 118.03 Annex 9
- ECE- R 118.03 Annex 10 Paragraph 6.2.6  
(ISO 6722-1:2011 Item 5.22)

### 2.2 Test results

- The requirements concerning the burning behaviour according to ECE-R 118 Appendix 6 / 8 are fulfilled. They were verified in
  - ↔ Horizontal direction  
**ECE-R 118.03** (Annex 6 )
  - ↓ Vertical direction and  
**ECE-R 118.03** (Annex 8 )
  - ↕ horizontal and vertical direction  
**ECE-R 118.03** ( Annex 6 and 8)
- The requirements concerning the resistance to flame propagation for cables according to **ECE- R 118.03 Annex10 Paragraph 6.2.6 (ISO 6722-1:2011 Item 5.22 are met)**

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## 2.2.2 ECE- R 118.03 Annex 10

Cable sampe NO.	Conductor cross-section  (mm <sup>2</sup> )	Flame application time until conductor wire visible  (S)	Burning Time  (S)	Burning distance  (mm)	Unburned length of the insulation  (mm)	Comments / Remarks
1	Yellow/green 0,75 mm <sup>2</sup>	15 sn	3 sn	36 mm	460 mm	Fulfilled
2	Yellow/green 0,75 mm <sup>2</sup>	15 sn	0 sn	38 mm	445 mm	Fulfilled
3	Yellow/green 0,75 mm <sup>2</sup>	15 sn	0 sn	44 mm	453 mm	Fulfilled
4	Yellow/green 0,75 mm <sup>2</sup>	15 sn	0 sn	34 mm	476 mm	Fulfilled
5	Yellow/green 0,75 mm <sup>2</sup>	15 sn	2 sn	37 mm	463 mm	Fulfilled

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### 3. Enclosures

- Manufacturer Information Document – 1 page

### 4. Statement of conformity

As the result of inspections of **MEKAS KABLO SAN.ve TİC.A.Ş.** component sample, it has been confirmed that the sample have fulfilled the requirements related to the ECE R-118.03 as given.

This test report must not be duplicated without written approval of **TÜV AUSTRIA TURK BELGELENDİRME EĞİTİM VE GÖZETİM HİZMETLERİ LTD. ŞTİ.**

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This test report consists of 6 pages.

Approval authority	Country	Registration number	Actual scope list
Sanayi ve Teknoloji Bakanlığı	Türkiye	21676894-130.01-E246	<a href="https://www.sanayi.gov.tr/page.html?sayfald=4e4d87f0-d8e5-453b-9b46-9b44c2d0a138&amp;lang=tr">https://www.sanayi.gov.tr/page.html?sayfald=4e4d87f0-d8e5-453b-9b46-9b44c2d0a138&amp;lang=tr</a>
National Standards Authority of Ireland (NSAI)	Ireland	Technical Service Number: 108	<a href="https://www.unece.org/fileadmin/DAM/trans/main/wp29/wp29wg_s/wp29gen/wp29fdoc/02-ECE-TRANS-WP.29-343-Rev.26.pdf">https://www.unece.org/fileadmin/DAM/trans/main/wp29/wp29wg_s/wp29gen/wp29fdoc/02-ECE-TRANS-WP.29-343-Rev.26.pdf</a>

TR- İstanbul  
31.01.2019

Özlem OK  
A Check

Sinan COŞKUN  
Q Check



Batuhan AŞLAKCI  
Recognized  
Expert/Signature



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ECE- R 118.03 Annex 10 Paragraph 6.2.6 (ISO 6722-1:2011 Item 5.22 are met) burning  
behaviour:

Before the Test



After the Test

