



# Economic and Social Council

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## Economic Commission for Europe

### Inland Transport Committee

### World Forum for Harmonization of Vehicle Regulations

#### Working Party on General Safety Provisions

#### 111<sup>th</sup> session

Geneva, 11–14 October 2016

Item 11 of the provisional agenda

#### Regulation No. 118 (Burning behaviour of materials)

### **Proposal for Supplement 3 to the 02 series of amendments to Regulation No. 118 (Burning behaviour of materials)**

#### **Submitted by the experts from Finland, France and Germany \***

The text reproduced below was prepared by the experts from Finland, France and Germany to reduce the administrative procedures that do not benefit the level of safety. The modifications to the current text of the 02 series of amendments of UN Regulation No. 118 including the adopted amendment of ECE/TRANS/WP.29/GRSG/2015/29 and Corr.1 are marked in bold for new characters.

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\* In accordance with the programme of work of the Inland Transport Committee for 2016–2017 (ECE/TRANS/254, para. 159 and ECE/TRANS/2016/28/Add.1, cluster 3.1), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

## I. Proposal

*Part II, paragraph 6.2.6., amend to read:*

"6.2.6. Any electric cable (e.g. single-core, multi-core, screened, unscreened, sheathed cables) exceeding a length of 100 mm used in the vehicle shall undergo the resistance to flame propagation test described in ISO 6722-1:2011, paragraph 5.22. **Test reports and approvals of components obtained according to ISO 6722:2006, paragraph 12., shall remain valid.**

The exposure to the test flame shall be finished, when the conductor (in case of single-core cables) or the first conductor (in case of multi-core cables) becomes visible, or after 15 s for cables with conductor sizes of each less or equal than 2.5 mm<sup>2</sup> and 30 s for cables with conductor sizes greater than 2.5 mm<sup>2</sup> or multi-core cables with at least one conductor size greater than 2.5 mm<sup>2</sup>.

The result of the test shall be considered satisfactory if, taking into account the worst test result, any combustion flame of insulating material shall extinguish within 70 seconds and a minimum of 50 mm insulation at the top of the test sample shall remain unburned."

## II. Justification

The proposal aims at reducing the administrative efforts to obtain approvals for electrical cables according to UN Regulation No. 118. The experts from Finland, France and Germany agreed that the change from ISO 6722:2006 to ISO 6722-2011 does not benefit the degree of safety and, therefore, the test reports or approvals established under the older version of the ISO standard shall remain valid.

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