Repubblica di San Marino

Autorità per l'Omologazione

Republic of San Marino

Authority for Homologation

Via Consiglio dei Sessanta, 99
47891 Dogana - Repubblica di San Marino

Comunicazione
Communication

E57	Concernente [2/] *Concerning [2/]*	**Il rilascio dell'omologazione** ***Approval granted*** ~~L'estensione dell'omologazione~~ ~~*Approval extended*~~ ~~Il rifiuto dell'omologazione~~ ~~*Approval refused*~~ ~~La revoca dell'omologazione~~ ~~*Approval withdrawn*~~ ~~La cessazione definitiva della produzione~~ ~~*Production definitively discontinued*~~

of a component pursuant to regulation no 118.04

Omologazione N. ***Approval No.***	**E57*118RII04/00*0081**	**Estensione N.** ***Extension No.***	**00**

Marchio di omologazione ***Approval mark***	***See Manufacturer's Information Document No: RS-WH10100-00***

Reason for extension: Not applicable

SECTION I

GENERAL

1.1. Make (trade name of manufacturer): 融盛科技 Rong Sheng

1.2. Type: RS-WH10100

1.3. Means of identification of type, if marked on the device[(b)]: Letters and Digits

1.3.1. Location of that marking: Label on the surface of cable.

1.4.	Name and address of manufacturer:	**Guangzhou Rongsheng Technology Co., Ltd.** 4th Floor, G Building, Jiyi Industrial Park, No. 270 Changjiang Road, Panyu District, Guangzhou City, Guangdong Province, China 511447
1.5.	Location of the approval mark:	Label on the surface of cable.
1.6.	Address(es) of assembly plant(s):	4th Floor, G Building, Jiyi Industrial Park, No. 270 Changjiang Road, Panyu District, Guangzhou City, Guangdong Province, China 511447

SECTION II

1.	Additional information: (where applicable):	See Appendix 1
2.	Technical service responsible for carrying out the tests:	**AUTOMOTIVE TECHNICAL SERVICE S.r.l.** Via Consiglio dei Sessanta, 99 47891 – DOGANA Repubblica di San Marino
3.	Date of test report:	26.01.2022
4.	Number of test report:	ATS-SM-IR-118-03657
5.	Remarks (if any):	None
6.	Place:	Dogana – Repubblica di San Marino
7.	Date:	21.02.2022
8.	Signature:	AUTORITA' PER L'OMOLOGAZIONE Repubblica di San Marino E57 Ing. Marco CONTI Direttore Generale General Director

9. The index to the information package lodged with the Type Approval Authority, which may be obtained on request, is attached.

(2) Strike out what does not apply (there are cases where nothing needs to be deleted, when more than one entry is applicable
(b) If the means of identification of type contains characters not relevant to describe the vehicle, component or separate technical unit types covered in this information document, such characters shall be represented in the document by the symbol "?" (e.g. ABC??123???)

Appendix 1

Appendix to type-approval communication form No. E57*118RII04/00*0081*00 concerning the type-approval of a component type pursuant to Regulation No. 118.04

1. Additional information	
1.1. Interior materials	
1.1.1. The direction which the component may be installed: ~~horizontal / vertical / both horizontal and vertical direction~~(s).[1]	
1.1.2. Fulfils the requirements in paragraph 6.2.2.:	~~yes~~/not applicable [1]
1.1.3. Compliance has been checked for components approved as complete devices:	~~yes/~~no[1]
1.1.4. Any restrictions of use and installation requirements:	Not applicable
1.2. Insulation materials	Not applicable
1.2.1. The direction which the component may be installed: ~~horizontal / vertical / both horizontal and vertical direction(s).~~[1]	Not applicable
1.2.2. Compliance has been checked for components approved as complete devices:	~~yes/~~no[1]
1.2.3. Any restrictions of use and installation requirements:	Not applicable
1.3. Electric cables	yes/~~no~~[1]
1.3.1. Any restrictions of use and installation requirements:	See Manufacturer's Information Document No. RS-WH10100-00 of 05.01.2022
2. Remarks:	None

(1) Strike out what does not apply.

Allegato *Enclosure*				
Al certificato di omologazione ECE N. *To ECE approval certificate No.*	**E57*118RII04/00*0081*00**			
Indice del fascicolo di omologazione *Index to the information package*				
Data *Date of issue*	**21.02.2022**	**Data ultima modifica** *Last amendment date*	--	
1.	**Clausole di garanzia e istruzioni sul diritto di presentare ricorso** *Collateral clauses and instruction on right to appeal*			
2.	**Rapporto(i) Finale di Ispezione N.** *Inspection report(s) No.*	**ATS-SM-IR-118-03657**	**Data** *Date*	**26.01.2022**
3.	**Scheda informativa N.** *Information document No.*	**RS-WH10100-00**	**Data** *Date*	**05.01.2022**
			Data ultima modifica *Last amendment date*	--

Clausole di garanzia e istruzioni sul diritto di presentare ricorso

Clausole di garanzia

La produzione in serie deve essere esattamente conforme ai documenti di omologazione. Le variazioni di produzione in serie sono consentite solo con il consenso espresso del **Autorità per l'Omologazione**.

Le variazioni del nome della società, l'indirizzo e lo stabilimento di produzione, nonché una delle parti che hanno l'autorità alla consegna o eventuali rappresentanti nominati al momento del rilascio dell'omologazione, devono essere immediatamente comunicate al **Autorità per l'Omologazione**. La violazione di queste regole può portare al ritiro dell'omologazione ed inoltre può essere legalmente perseguita.

L'omologazione decade se viene restituita o ritirata o se il tipo omologato non è più conforme ai requisiti di legge. La revoca può essere fatta se non esistono più i requisiti richiesti per il rilascio e la continuazione dell'omologazione, se il titolare dell'omologazione viola gli obblighi dettati dall'omologazione, anche nel caso in cui gli obblighi derivino dalle condizioni assegnate all'interno dell'omologazione, o se è accertato che il tipo approvato non è conforme ai requisiti di sicurezza del traffico e di tutela dell'ambiente.

L'**Autorità per l'Omologazione** può verificare la corretta applicazione della delega conferita rilasciata nella presente omologazione, in qualsiasi momento. In particolare, questo include la verifica della produzione, che sia conforme, nonché le misure di controllo di conformità della produzione. Per questo, possono essere presi dei campioni dalla produzione. I dipendenti o rappresentanti dell'**Autorità per l'Omologazione** possono avere accesso senza ostacoli agli impianti di produzione e stoccaggio.

La delega conferita contenuta nella presente omologazione non è trasferibile. I diritti del marchio di terzi non sono interessati da questa omologazione.

Istruzione su diritto di ricorso

Questa omologazione è appellabile entro un mese dalla notifica. Il ricorso deve essere presentato per iscritto o come una domanda inviata all' **Autorità per l'Omologazione** - Via Consiglio dei Sessanta, 99 - 47891 Dogana - Repubblica di San Marino.

********** **********

Collateral clauses and instruction on right to appeal

Collateral clauses

*The individual production of serial fabrication must be in exact accordance with the approval documents. Changes in the individual production are only allowed with express consent of the **Authority for Homologation**.*

*Changes in the name of the company, the address and the manufacturing plant as well as one of the parties given the authority to delivery or authorized representative named when the approval was granted is to be immediately disclosed to the **Authority for Homologation**. Breach of this regulation can lead to recall of the approval and moreover can be legally prosecuted.*

The approval expires if it is returned or withdrawn or if the type approved no longer complies with the legal requirements. The revocation can be made if the demanded requirements for issuance and the continuance of the approval no longer exist, if the holder of the approval violates the duties involved in the approval, also to the extent that they result from the assigned conditions to this approval, or if it is determined that the approved type does not comply with the requirements of traffic safety or environmental protection.

*The **Authority for Homologation** may check the proper exercise of the conferred authority taken from this approval at any time. In particular this means the compliant production as well as the measures for conformity of production. For this purpose samples can be taken or have taken. The employees or the representatives of the **Authority for Homologation** may get unhindered access to the production and storage facilities.*

The conferred authority contained with issuance of this approval is not transferable. Trade mark rights of third parties are not affected with this approval.

Instruction on right to appeal

*This approval can be appealed within one month after notification. The appeal is to be filed in writing or as a transcript at the **Authority for Homologation** - Via Consiglio dei Sessanta, 99 - 47891 Dogana - Repubblica di San Marino.*

Inspection Report No.:	ATS-SM-IR-118-03657
of	26.01.2022
Type:	RS-WH10100
Manufacturer:	Guangzhou Rongsheng Technology Co., Ltd.

Inspection Report

No. ATS-SM-IR-118-03657
Rel. 00

Inspection concerning ~~vehicles~~ / components with regard to:

Uniform technical prescriptions concerning the burning behaviour and/or the capability to repel fuel or lubricant of materials used in the construction of certain categories of motor vehicles

performed according to

ECE Regulation No. 118

as last amended by

04 series of amendments

of the Economic Commission for Europe

Approval status	
ECE	Number of approval
	E57*118RII04/00*0081*00

0. General

0.1.	Make (trade name of manufacturer)	:	融盛科技 Rong Sheng
0.2.	Type	:	RS-WH10100
0.2.1.	Means of identification of type, if marked on the device	:	Letters and Digits
0.2.2.	Location of that marking:	:	Label on the surface of cable.
0.3.	Manufacturer's name and address	:	**Guangzhou Rongsheng Technology Co., Ltd.** 4th Floor, G Building, Jiyi Industrial Park, No. 270 Changjiang Road, Panyu District, Guangzhou City, Guangdong Province, China 511447
0.4.	Information document		
	No.	:	RS-WH10100-00
	Date of issue	:	05.01.2022
	Date of last change	:	--
0.5.	Name and address of assembly plant	:	**Guangzhou Rongsheng Technology Co., Ltd.** 4th Floor, G Building, Jiyi Industrial Park, No. 270 Changjiang Road, Panyu District, Guangzhou City, Guangdong Province, China 511447
0.6.	Name and address of manufacturer's representative	:	N/A
0.7.	Location of approval mark (where applicable)	:	Label on the surface of cable.

1. Test Object

1.1 Worst Case Selection :

The material which used for wires of vehicle was tested to determine the resistance to flame propagation of electrical cables according to Annex 10.
0.12mm^2 conductor size of material has been tested.
During the test, Nobody attended the test as manufacturer's representative.

1.2 Test Component :

Material Use	:	Video harness
Base Material(s) Designation	:	See information document No.: RS-WH10100-00
Colour	:	Black
~~Number of Layers*~~/Multiple-single core*	:	Single Core
Type of Coating	:	N/A
~~Thickness (mm)*~~/Conductor total size (mm^2)*	:	0.12 mm^2
Restrictions of Use (if applicable)	:	N/A

**Strike through, as appropriate.*

1.3 Remarks : None.

2. Test Record

2.1 Test Conditions

2.1.1 Parameter of the test area : 22℃40%RH

2.1.2 Equipment for measuring and testing :

Equipment	Serial or Certificate No.	Calibration due
Ruler	E8074	22/09/2022
Calliper	5063860	13/10/2022
Hygrometer and Thermometer	608-H1	13/10/2022
Chronograph	DM1-002	26/09/2022
Horizontal burning test facility	FZCSJ-V2L-P14	21/04/2022
Thermal melting test facility	Polynorme505	/
Vertical burning test facility	QCN-V2D-P04	21/04/2022
Inclined combustion testing machine for single wire and cable	YN21030	04/08/2022

2.2 Test Results

Fulfilled
Yes / ~~No / N/A~~

Below items are from legislation

Horizontal Burning Rate of Materials (Annex 6)

Ann 6 This test is only applicable if the material is used for either: : ~~Yes / No /~~ N/A

- Material and composite material installed in a horizontal position in the interior compartment*
- Insulation material(s) installed in a horizontal position in the engine compartment and any separate heating compartment*

**Strike through, as appropriate.*

Note.1. Five samples shall undergo the test in the case of an isotropic material or ten samples in the case of a non-isotropic material (five for each direction).

Ann 6, 1.1 *Note.2.The result of the test shall be considered satisfactory if, taking the worse test results into account, the horizontal burning rate is not more than 100mm/minute or if the flame extinguishes before reaching the last measuring point.*

Apparatus

Ann 6, 2.1.	Combustion chamber is stainless steel and has the dimensions given in Figure 2. The front of the chamber contains a flame-resistant observation window, which covers the front and can be constructed as an access panel.	:	~~Yes / No /~~ N/A
Ann 6, 2.1.	Bottom of the chamber has vent holes and the top has a vent slot all around. The combustion chamber is placed on four feet, 10 mm high.	:	~~Yes / No /~~ N/A
Ann 6, 2.1.	Chamber may have a hole at one end for the introduction of the sample holder containing the sample holder; in the opposite end, a hole is provided for the gas line. Melted material is caught in a pan (see Figure 3), which is placed on the bottom of the chamber between vent holes without covering any vent hole area.	:	~~Yes / No /~~ N/A
Ann 6, 2.2.	Sample holder consists of two U-shaped metal plates or frames of corrosion-proof material (dimensions given in Figure 4).	:	~~Yes / No /~~ N/A
Ann 6, 2.2.	Lower plate is equipped with pins, the upper one with corresponding holes in order to ensure a consistent holding of the sample.	:	~~Yes / No /~~ N/A
Ann 6, 2.2.	Support is provided in the form of 0.25 mm diameter heat-resistant wires spanning the frame at 25 mm intervals over the bottom U-shaped frame (see Figure 5).	:	~~Yes / No /~~ N/A
Ann 6, 2.2.	Plane of the lower side of samples is 178 mm above the floor plate. The distance of the front edge of the sample holder from the end of the chamber is 22 mm; the distance of the longitudinal sides of the sample holder from the sides of the chamber is 50 mm (all inside dimensions). (See Figures 1 and 2).	:	~~Yes / No /~~ N/A
Ann 6, 2.3.	Small ignition source is provided by a Bunsen burner having an inside diameter of 9.5 ± 0.5 mm.	:	~~Yes / No /~~ N/A
Ann 6, 2.4.	Gas supplied to the burner has a calorific value near 38 MJ/m^3 (e.g. natural gas).	:	~~Yes / No /~~ N/A
Ann 6, 2.5.	Metal comb is at least 110 mm in length, with seven to eight smooth rounded teeth per 25 mm.	:	~~Yes / No /~~ N/A
Ann 6, 2.6.	Stopwatch is accurate to 0.5 seconds.	:	~~Yes / No /~~ N/A
Ann 6, 2.7.	If applicable, the volume of the fume cupboard is at least 20, but not more than 110 times greater than the volume of the combustion chamber, and no dimension is greater than 2.5 times either of the other two dimensions.	:	~~Yes / No /~~ N/A
Ann 6, 2.7.	Vertical velocity of the air through the fume cupboard is between 0.1 and 0.3 m/s, measured 100 mm in front and behind of the location of the combustion chamber.	:	~~Yes / No /~~ N/A

Samples

Ann 6, 3.1.1.	Shape and dimensions of sample correspond to Figure 6. The thickness is ≤ 13 mm and has a constant section over its entire length.	:	~~Yes / No /~~ N/A
Ann 6, 3.1.2.	If the shape and dimensions of the product are not practical, the following dimensions are maintained: - For samples having a width between 3 and 60 mm, the length is 356 mm* - For samples having a width between 60 and 100 mm, the length is at least 138 mm* Test sample: **Strikethrough, as appropriate.*	:	~~Yes / No /~~ N/A
Ann 6, 3.2.	Samples are conditioned for at least 24 hours, but not more than 7 days at 23 C ± 2 °C, and have a relative humidity of 50 ± 5 % immediately prior to testing.	:	~~Yes / No /~~ N/A
	Procedure		
Ann 6, 4.1.	Samples with napped or tufted surfaces are combed twice against the nap.	:	~~Yes / No /~~ N/A
Ann 6, 4.2.	Sample is placed in the sample holder, with the exposed side facing downwards towards the flame.	:	~~Yes / No /~~ N/A
Ann 6, 4.3.	Gas flame is adjusted to a height of 38 mm, and the flame is stabilised for 1 minute.	:	~~Yes / No /~~ N/A
Ann 6, 4.4.	Sample holder is pushed into the combustion chamber and the end of the sample is exposed to the flame for 15 seconds, before the gas flow is cut off.	:	~~Yes / No /~~ N/A
Ann 6, 4.5.	Observing the faster burning side (upper or lower), the measuring time starts at the moment when the foot of the flame passes the first measuring point.	:	~~Yes / No /~~ N/A
Ann 6, 4.6.	Measuring finish time is when either the flame reaches the last measuring point or at the point of extinguishing of the flame.	:	~~Yes / No /~~ N/A
Ann 6, 4.7.	If the sample did not ignite or continue burning after the gas flame was removed, or if the flame did not reach the first measuring point, the burnt distance is 0 mm.		~~Yes / No /~~ N/A

Isotropic Material- Nylon : ~~Yes / No /~~ N/A

5 samples of Isotropic Material in one direction

Sample No.	Start Time (secs)	Finish Time (secs)	Burning Duration (secs)	Burnt Distance (mm)	Burning Rate (mm/min)
1	--	--	--	--	--
2	--	--	--	--	--
3	--	--	--	--	--
4	--	--	--	--	--
5	--	--	--	--	--

Burn rate limit: 100 mm/min

Non-isotropic Material : ~~Yes / No /~~ N/A

5 Samples of Non-isotropic Material in warp direction

Sample No.	Start time (secs)	Finish time (secs)	Burning Duration (secs)	Burnt Distance (mm)	Burning Rate (mm/min)
1	--	--	--	--	--
2	--	--	--	--	--
3	--	--	--	--	--
4	--	--	--	--	--
5	--	--	--	--	--

Burn rate limit: 100 mm/min

5 samples of Non-isotropic Material in weft direction

Sample No.	Start Time (secs)	Finish Time (secs)	Burning Duration (secs)	Burnt Distance (mm)	Burning Rate (mm/min)
1	--	--	--	--	--
2	--	--	--	--	--
3	--	--	--	--	--
4	--	--	--	--	--
5	--	--	--	--	--

Burn rate limit: 100 mm/min

Samples had a burn rate ≤ 100 mm/min : ~~Yes / No /~~ N/A

The material did not ignite and burn. ~~Yes / No /~~ N/A

Melting Behaviour of Materials (Annex 7)

	This test is only applicable if the material is used for one of the following purposes:	:	~~Yes / No /~~ N/A
6.2.2. (a) *6.2.2. (b)*	- Material(s) and composite material(s) installed more than 500 mm above the seat cushion and on the ceiling of the vehicle - Insulation material(s) installed in the engine compartment and any separate heating compartment. **Strikethrough, as appropriate.* *Note.1. Four samples, for both faces (if they are not identical) shall undergo the test.* *Note.2. The result of the test shall be considered satisfactory if, taking the worst test results into account, no drop is formed which ignites the cotton wool.*		
	Apparatus		
Ann 7, 2.1.	Radiating surface of the electric radiator has a transparent quartz plate, with a diameter of 100 ± 5 mm.	:	~~Yes / No /~~ N/A
Ann 7, 2.1.	Radiated heat, measured on a surface that is parallel to the surface of the radiator at a distance of 30 mm, is 30 W/cm².	:	~~Yes / No /~~ N/A
Ann 7, 2.2.	For calibration of the radiator, a heat flux meter (radiometer) of the Gardon (foil) type, with a design range not exceeding 10 W/cm² is used. The target receiving radiation is flat, circular, ≤ 10 mm in diameter and coated with a durable matt black finish.	:	~~Yes / No /~~ N/A
Ann 7, 2.2.	Target is contained within a water cooled body, the front face of which is of highly polished metal, flat, coinciding with the plane of the target and circular, with a diameter of about 25 mm.	:	~~Yes / No /~~ N/A
Ann 7, 2.2.	Radiation does not pass through any window before reaching the target.	:	~~Yes / No /~~ N/A
Ann 7, 2.2.	Instrument is robust, simple to set up and use, insensitive to draughts, and stable in calibration. It has an accuracy of within ± 3 % and repeatability within 0.5 %.	:	~~Yes / No /~~ N/A
Ann 7, 2.2.	Calibration of the heat flux meter is checked whenever a recalibration of the radiator is carried out, by comparison with an instrument held as a reference standard and not used for any other purpose.	:	~~Yes / No /~~ N/A
Ann 7, 2.2.	Reference standard instrument is fully calibrated at yearly intervals, in accordance with the national standard.	:	~~Yes / No /~~ N/A
Ann 7, 2.2.1.	Irradiance of the radiator checked at least once every 50 operating hours and is recalibrated if there is a deviation greater than 0.06 W/cm².	:	~~Yes / No /~~ N/A
Ann 7, 2.2.2.	Apparatus is placed in an environment essentially free of air currents (≤ 0.2 m/s).	:	~~Yes / No /~~ N/A

Ann 7, 2.2.2.	Heat flux meter is placed in the specimen position so that the target is located centrally within the radiator surface.	:	~~Yes / No /~~ N/A
Ann 7, 2.2.2.	Power input of the controller required to produce irradiance at the centre of the radiator surface of 3 W/cm² has been established.	:	~~Yes / No /~~ N/A
Ann 7, 2.2.2.	Adjustment to the power unit to record 3 W/cm² is followed by a 5 minute period without further adjustment.	:	~~Yes / No /~~ N/A
Ann 7, 2.3.	Grill (made of stainless steel wire) on top of the support is placed with the following dimensions: - Interior diameter: 118 mm; - Dimension of the holes: 2.10 mm square; - Diameter of steel wire: 0.70 mm	:	~~Yes / No /~~ N/A
Ann 7, 2.4.	Receptacle consists of a cylindrical tube with an interior diameter of 118 mm and depth of 12 mm. It is filled with cotton wool.	:	~~Yes / No /~~ N/A
Ann 7, 2.5.	Vertical column supports the items specified in 2.1, 2.3 and 2.4.	:	~~Yes / No /~~ N/A
Ann 7, 2.5.	Radiator is placed on top of the support so that the radiating surface is horizontal and radiation is downwards.	:	~~Yes / No /~~ N/A
Ann 7, 2.5.	Lever/pedal is provided with a catch to ensure that the radiator can be brought back in its normal position.	:	~~Yes / No /~~ N/A
Ann 7, 2.5.	In their normal position, the axes of the radiator, support for the sample and the receptacle coincide.	:	~~Yes / No /~~ N/A
	Samples		
Ann 7, 3.	Sample measures 70 mm x 70 mm and the total mass is at least 2g.	:	~~Yes / No /~~ N/A
Ann 7, 3.	Samples and cotton wool are conditioned for at least 24 hours at 23 °C ± 2 °C, and a relative humidity of 50 + 5 % is maintained until immediately prior to testing.	:	~~Yes / No /~~ N/A

Procedure

Ann 7, 4.	Distance between the radiator and the sample is 30 mm.	:	~~Yes / No /~~ N/A
Ann 7, 4.	Receptacle placed beneath the grill of the support at a distance of 300 mm.	:	~~Yes / No /~~ N/A
Ann 7, 4.	If the sample melts or deforms, the height of the radiator is modified to maintain the distance of 30 mm.	:	~~Yes / No /~~ N/A
Ann 7, 4.	If the material ignites in the first 5 minutes, the radiator is put aside after 3 seconds. It is brought back in position when the flame is extinguished (repeated, as required).	:	~~Yes / No /~~ N/A
Ann 7, 4.	After 5 minutes, if the sample has extinguished, the radiator is left in position for an additional 5 minutes. If the sample is burning, wait for extinguishing of the flame, remove radiator, and replace for an additional 5 minutes.	:	~~Yes / No /~~ N/A

Results

Ann 7, 5.	Observed results for 4 samples (decorative face):	:	~~Yes / No /~~ N/A
Ann 7, 5.	Sample did not produce any drops* Sample produced drops* Drops formed were flaming* Drops formed were not flaming* **Strike through, as appropriate.*		
Ann 7, 5.	Samples did not ignite the cotton wool.	:	~~Yes / No /~~ N/A
Ann 7, 5.	Observed results for 4 samples (backing face):	:	~~Yes / No /~~ N/A
Ann 7, 5.	Sample did not produce any drops* Sample produced drops* Drops formed were flaming* Drops formed were not flaming* **Strike through, as appropriate.*		
Ann 7, 5.	Samples did not ignite the cotton wool.	:	~~Yes / No /~~ N/A

Vertical Burning Rate of Materials (Annex 8)

	This test is only applicable if the material is used for one of the following: - Material(s) and composite material(s) installed in a vertical position in the interior compartment, - Insulation material(s) installed in a vertical position in the engine compartment and any separate heating compartment **Strike through, as appropriate.*	:	~~Yes / No /~~ N/A
6.2.3. (a) *6.2.3. (b)*			
Ann 8, 1.1	*Note. 1. "Material installed in a vertical position" means materials installed in the interior compartment, the engine compartment and any separate heating compartment of the vehicle such that its slope exceeds 15 per cent from the horizontal when the vehicle is at its mass in running order and it is standing on a smooth and horizontal ground surface.* *Note. 2. Three samples shall undergo the test in the case of an isotropic material, or six samples in the case of a non-isotropic material.* *Note. 3. The result of the test shall be considered satisfactory if, taking the worst test results into account, the vertical burning rate is not more than 100 mm/minute or if the flame extinguishes before the destruction of one of the first marker threads occurred.*		
	Apparatus		
Ann 8, 2.1.	Sample holder consists of a rectangular frame, 560 mm high, and has two rigidly connected parallel rods spaced 150 mm apart on which pins are fitted for mounting the sample, which is located in a plane at least 20 mm from the frame.	:	~~Yes / No /~~ N/A
Ann 8, 2.1.	Mounting pins are ≤ 2 mm in diameter and are at least 27 mm long. They are located on the parallel rods (see Figure 1).	:	~~Yes / No /~~ N/A
Ann 8, 2.1.	Frame is fitted on to a suitable support to maintain the rods in a vertical position during testing. *Note: For the purpose of locating the sample on the pins in a place away from the frame, spacer stubs 2 mm in diameter may be provided adjacent to the pins.*	:	~~Yes / No /~~ N/A
Ann 8, 2.2.	Gas supplied to the burner is either commercial propane or butane gas.	:	~~Yes / No /~~ N/A
Ann 8, 2.2.	Burner is positioned as per Figure 2. Distance between the tip of the burner and the lower edge of the sample is 20 mm.	:	~~Yes / No /~~ N/A
Ann 8, 2.3.	If applicable, test apparatus is placed in a fume cupboard assembly with an internal volume between 20 and 110 times greater than the volume of the test apparatus. No single height, width or length dimension is > 2.5 times either of the other two dimensions.	:	~~Yes / No /~~ N/A
Ann 8, 2.3.	Before the test, the vertical velocity of the air through the fume cupboard is measured 100 mm in front of and behind the final position where the apparatus is located. It is between 0.1 and 0.3 m/s.	:	~~Yes / No /~~ N/A

Ann 8, 2.4.	A flat rigid template made of suitable material and of a size corresponding to the size of the sample is used. Holes approximately 2 mm in diameter are drilled in the template as per Figure 1. The holes are equidistant about the vertical centrelines of the template.	:	~~Yes / No /~~ N/A
	Samples		
Ann 8, 3.1.	Sample dimensions are 560 x 170 mm. Sample dimensions are 320 x 170 mm.	:	~~Yes / No /~~ N/A
Ann 8, 3.2.	If the thickness of the sample is > 13 mm, it is reduced to 13 mm by a mechanical process. Composite materials are tested as if they are of uniform construction. *Note: In the case of materials made of superimposed layers of different composition which are not composite materials, all the layers of material included within a depth of 13 mm from the surface facing towards the respective compartment shall be tested individually.*	:	~~Yes / No /~~ N/A
Ann 8, 3.3.	Samples are conditioned for at least 24 hours at a temperature of 23 °C ± 2 °C, and a relative humidity of 50 ± 5 %.	:	~~Yes / No /~~ N/A
	Procedure		
Ann 8, 4.1.	Test conducted in an atmosphere with a temperature between 10 °C and 30 °C and a relative humidity between 15 % and 80 %.	:	~~Yes / No /~~ N/A
Ann 8, 4.2.	Burner preheated for 2 minutes and flame height adjusted to 40 ± 2 mm (measured as the distance between top of the burner tube and tip of the yellow part of the flame).	:	~~Yes / No /~~ N/A
Ann 8, 4.3.	Sample placed on the pins of the test frame, vertically, and is at least 20 mm from the frame	:	~~Yes / No /~~ N/A
Ann 8, 4.4.	The marker threads shall be attached horizontally in front of and behind the specimen at the locations shown in Figure 1. At each location, a loop of thread shall be mounted so that the two segments are spaced 1 mm and 5 mm from the front and rear face of the specimen.	:	~~Yes / No /~~ N/A
Ann 8, 4.4.	Timing device attached to each loop and thread under tension.	:	~~Yes / No /~~ N/A

Results

Material type ~~Isotropic / Non-isotropic*~~

**Strike through, as appropriate.*

Note. 1. Three samples shall undergo the test in the case of an isotropic material, or six samples in the case of a non-isotropic material.

1st Direction of burn ~~Warp / Weft /~~ Not applicable*

Ann 8, 4.5.

Ignition occurred after 5 second application of flame to sample*

Ignition did not occur after 5 second application of flame to sample, so flame was applied to a new sample for 15 seconds*

** Strike through, as appropriate.*

Note. 1. Ignition is deemed to have occurred if flaming of the specimen continues for 5 seconds after removal of the igniting flame

Ann 8, 4.7.

Sample No.	T1 Time from flame application to severance of marker 1 (secs)	T2 Time from flame application to severance of marker 2 (secs)	T3 Time from flame application to severance of marker 3 (secs)
1	--	--	--
2	--	--	--
3	--	--	--

Note. NS: Trip thread not severed.

Sample No.	D1 Burn distance 1 (mm)	D2 Burn distance 2 (mm)	D3 Burn distance 3 (mm)
1	--	--	--
2	--	--	--
3	--	--	--

Note. NS: Trip thread not severed.

Sample No.	V1 Burn Rate 1 (mm/min)	V2 Burn Rate 2 (mm/min)	V3 Burn rate 3 (mm/min)
1	--	--	--
2	--	--	--
3	--	--	--

Maximum burn rate:	NA
Minimum burn rate:	NA
Any burn rate > 1.5 x minimum burn rate:	NA

Results

Material type	~~Non-isotropic~~
2nd Direction of burn	~~Warp / Weft~~ *

Ann 8, 4.5.

Ignition occurred after 5 second application of flame to sample*
Ignition did not occur after 5 second application of flame to sample, so flame was applied to a new sample for 15 seconds*

** Strike through, as appropriate.*

Note. 1. Ignition is deemed to have occurred if flaming of the specimen continues for 5 seconds after removal of the igniting flame

Ann 8, 4.7.

Sample No.	T1 Time from flame application to severance of marker 1 (secs)	T2 Time from flame application to severance of marker 2 (secs)	T3 Time from flame application to severance of marker 3 (secs)
1	--	--	--
2	--	--	--
3	--	--	--

Sample No.	D1 Burn distance 1 (mm)	D2 Burn distance 2 (mm)	D3 Burn distance 3 (mm)
1	--	--	--
2	--	--	--
3	--	--	--

Sample No.	V1 Burn Rate 1 (mm/min)	V2 Burn Rate 2 (mm/min)	V3 Burn rate 3 (mm/min)
1	--	--	--
2	--	--	--
3	--	--	--

Maximum burn rate:	N/A
Minimum burn rate:	N/A
Any burn rate > 1.5 x minimum burn rate:	N/A

Ann 8, 4.6.

- No sample in a set of three had a burn rate greater than 1.5 x the minimum burn rate result *
- One or more samples in a set of three had a burn rate greater than 1.5 x the minimum burn rate result *

**Strike through, as appropriate.*

Note. If any result in any set of three samples exceeds the minimum burn rate result by 50 per cent, another set of three samples shall be tested for that direction

Ann 8, 4.6.

- No samples in a set of three burnt to the top marker thread*
- All samples in a set of three burnt to the top marker thread*
- One sample in a set of three burnt to the top marker thread, but one or more other samples in the same set failed to burn to the top marker thread*

*Strike through, as appropriate.

Note. If one or two samples in any set of three samples fail to burn to the top marker thread, another set of three samples shall be tested for that direction

No sample had a burn rate (V1, V2 or V3) ≤ 100 mm/min : ~~Yes / No~~ / N/A

Resistance to Fuel & Lubricant Absorption Annex 9:

This test is only applicable if the material is used for: : ~~Yes / No /~~ N/A

6.2.5.

- All insulation material(s) installed in the engine compartment and any separate heating compartment

Sampling and principle

Ann 9, 2.1. The test samples shall measure: 140 mm x 140 mm. : ~~Yes / No~~ / N/A

Ann 9, 2.2. The thickness of the samples shall be 5 mm. : ~~Yes / No~~ / N/A

Note: If the thickness of the test sample is more than 5 mm, it shall be reduced to 5 mm by a mechanical process applied to the side which does not face the engine compartment or separate heating compartment.

Ann 9, 2.3. The test liquid shall be diesel fuel according to standard EN 590:1999 (Market fuels). : ~~Yes / No~~ / N/A

Note: alternatively diesel fuel according to Regulation No. 83 (Annex 10: Specification of reference fuels).

Ann 9, 2.4. Four samples shall undergo the test : ~~Yes / No~~ / N/A

3. Apparatus (see Figures 4a and 4b)

Ann 9, 3 The apparatus shall consist of:

(A) a base plate, with a hardness of at least 70 Shore D. : ~~Yes / No~~ / N/A

(B) an absorbent surface on the baseplate (e.g. paper); : ~~Yes / No~~ / N/A

(C) a metal cylinder (inner diameter of 120 mm, outer diameter of 130 mm, height of 50 mm), filled with the test liquid; : ~~Yes / No~~ / N/A

(D-D') two screws with wing nuts; : ~~Yes / No~~ / N/A

(E) the test sample; : ~~Yes / No~~ / N/A

(F) top plate : ~~Yes / No~~ / N/A

4. Test Procedure

Ann 9, 4.1. The test sample and the apparatus shall be conditioned for at least 24 hours at a temperature of 23°C ???2°C and a relative humidity of 50 + 5 per cent and shall be maintained under these conditions until immediately prior to testing. : ~~Yes / No~~ / N/A

Ann 9, 4.2. The test sample shall be weighed : ~~Yes / No~~ / N/A

Number of Samples	Pre-test sample weight (grams)
Sample 1	--
Sample 2	--
Sample 3	--
Sample 4	--

Ann 9, 4.3. The test sample, with its exposed face uppermost, shall be placed on the base of the apparatus by fixing the metal cylinder in a centred position with sufficient pressure on the screws. No test liquid shall leak. : ~~Yes / No~~ / N/A

Ann 9, 4.4. The metal cylinder shall be filled with test liquid to a height of 20 mm and left to rest for 24 hours. : ~~Yes / No~~ / N/A

Ann 9, 4.5. The test liquid and the test sample shall be removed from the apparatus. : ~~Yes / No~~ / N/A

Note: If residue of the test liquid is found on the test sample it shall be removed without compressing the test sample.

Ann 9, 4.6. The test sample shall be weighed at conclusion of test : ~~Yes / No~~ / N/A

Number of Samples	Pre-test sample weight (grams)	Post-test sample weight (grams)	Increase in sample weight (grams)
Sample 1	--	--	--
Sample 2	--	--	--
Sample 3	--	--	--
Sample 4	--	--	--

Note. 1. The result of the test shall be considered satisfactory if, taking the worst test results into account, the increase of the weight of the test sample does not exceed 1 g

The weight of the Test Sample did not increase by more than 1 gram : ~~Yes / No~~ / N/A

Resistance to Flame Propagation (ISO 6722-1:2011)
5.22 Resistance to Flame Propagation

This test is only applicable if the material is used for the following purpose: : Yes ~~/ No / N/A~~
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.

ISO 6722-1:2011 5.22.1

Purpose

This test is intended to verify that a cable should not sustain combustion.

Evidence has been provided by the manufacturer in respect of the material Type detailed at the beginning of this Test Report in respect of the test requirements outlined in ISO 6722-1:2011, paragraph 5.22 : ~~Yes / No~~ / N/A
Evidence in the form of a Test Report is attached to this Test Report*
Evidence in the form of a declaration from the manufacturer is attached to this Test Report*
**Strike through, as appropriate.*

If no evidence has been provided, a test to the requirements outlined in ISO 6722-1:2011, paragraph 5.22 shall be performed : Yes ~~/ No / N/A~~

ISO 6722-1:2011 5.22.2

Test Samples

: Yes ~~/ No / N/A~~

Prepare five test samples with at least 600 mm of insulation.

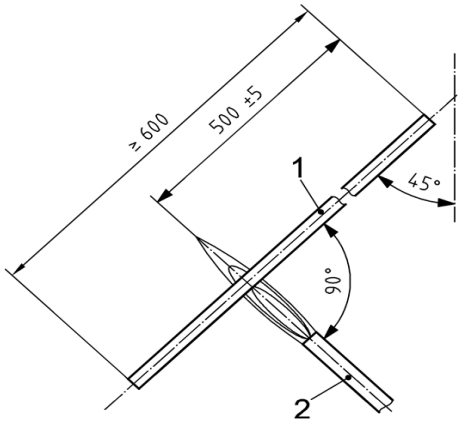
ISO 6722-1:2011 5.22.3

Test.

Determine the resistance to flame propagation using a Bunsen burner fed with appropriate gas, having a combustion tube of 9 mm internal diameter, where the flame temperature at the tip of the inner blue cone shall be (950 ± 50)

Dimensions in millimetres

Key
1 Test Sample
2 Bunsen burner



Test Apparatus for resistance to flame propagation

ISO 6722-1:2011 5.22.3

Procedure

Suspend the test sample in a draught-free chamber and expose the test sample to the tip of the inner cone of the flame, as shown in Figure 10.	:	Yes~~/ No / N/A~~
The upper end of the cable shall point away from the closest wall of the chamber.	:	Yes~~/ No / N/A~~
The sample shall be subject to a stress, e.g. by means of a weight over a pulley, in order to keep it straight at all times.	:	Yes~~/ No / N/A~~
The angle of the cable shall be 45° ± 1° relative to the vertical line.	:	Yes~~/ No / N/A~~
In any case, the shortest distance of any part of the sample shall be 100 mm minimum from any wall of the chamber	:	Yes~~/ No / N/A~~
Apply the flame with the tip of the inner blue cone touching the insulation (500 ± 5) mm from the upper end of the insulation.	:	Yes~~/ No / N/A~~

ISO 6722-1:2011 5.22.3

Exposure to flame finished: : Yes~~/ No / N/A~~

When the conductor (in the case of single-core cable) or the first conductor (in case of multi-core cables) become visible*
~~After 15 seconds for cables with conductor sizes ≤ 2,5² mm² *~~
~~After 30 seconds for cables with conductor sizes >2,5² mm² *~~
~~After 30 seconds for multi-core cables with one conductor size >2,5² mm² *~~
For sheathed, screened and unscreened single- or multi-core cables with a sum of conductor sizes smaller than or equal to 15 mm^2:
(a) Until a conductor becomes visible or for 30 s, for all cables, whichever comes first;
~~For sheathed, screened and unscreened single- or multi-core cables with a sum of conductor sizes greater than 15 mm2:~~
~~(a) According to (1) or (2), whichever is applicable.~~
~~Strike through, as appropriate.~~

Flame is removed sideways from the cable after exposure.	:	Yes~~/ No / N/A~~

Requirements

ISO 6722-1:2011 5.22.4 Any combustion flame of insulating material is extinguished within 70 seconds.	:	Yes~~/ No / N/A~~
ISO 6722-1:2011 5.22.4 A minimum of 50 mm of insulation at the top of the test sample remains unburned.	:	Yes~~/ No / N/A~~

Test Results

Sample No:	Sample exposed to Test Flame for (secs)	Extinguishing of combustion flame occurred within? (secs) from end of ignition (secs)	Insulation at top of sample remaining unburnt (mm)
1	30s	13s	453mm
2	30s	14s	450mm
3	30s	15s	455mm
4	30s	13s	451mm
5	30s	12s	458mm

Note: 1)*Sample exposed to Test Flame 15 seconds for cables with conductor sizes ≤ 2,5² mm²*
2)Sample exposed to Test Flame 30 seconds for cables with conductor sizes >2,5² mm²
3)Extinguishing of combustion flame must occur within 70seconds from the end of ignition

ISO 6722-1:2011 5.22.4

All five samples shall pass the test. : Yes ~~/ No / N/A~~

2.3 Other information

Place of inspection:	**Jiangsu Huachen Vehicle Inspection Co., Ltd.** Xihuan Road, Xinqiao, Danbei, Danyang, Jiangsu, China	
Date of inspection:	12.01.2022	
Technical service representative:	**Senior Inspector** Mr. Yu Hongfeng	**Junior Inspector (if applicable)** N/A
Manufacturer's representative:	N/A	
Remarks:	**None**	

2.4 Appendix

1. List of modifications
2. Test Photo (s)

2.5 Enclosures

Information Folder

3. Statement of conformity

The information document as given in paragraph 0.4 and the type described there are in compliance with the test specification mentioned above.

With regard to the required level of performance to be achieved, the tested items were representative for the type to be approved (see paragraph 1).

The tests were carried out in accordance with the relevant requirements of EN ISO/IEC 17025 and EN ISO/IEC 17020 / ECE/UN R118.04.

The inspection report comprises pages 1 to 24.

Il shall not be reproduced except in full, without written approval of the laboratory.

Dogana, Repubblica di San Marino, 26.01.2022

Number of project and protocol	***Originality Check*** (*) **ATS-SM-PR-03657**	**Automotive Technical Service S.r.l.** ***Inspector*** (Mr. Yu Hongfeng) **Automotive Technical Service S.r.l.** ***Deputy Technical Director*** (Eng. Bogdan Domnescu)	AUTOMOTIVE TECHNICAL SERVICE S.r.l. · Via Consiglio dei Sessanta, 99 · 47891 RSM ATS Technical Service RSMAO-01

(*) To check the originality of documents, scan the QR Code or connect to the site https://www.ats.sm/originality-control-atp-adr-tyapp/ and follow the instruction in it.

Appendix 1

List of modifications **~~Applicable~~ / Not Applicable** **Appendix 1**

More details for application of **Date :**

Correction of : -

Modification of : -

Addition of : -

Deletion of : -

Appendix 2

Test Photo(s) **Appendix 2**

Guangzhou Rongsheng Technology Co., Ltd.
4th Floor, G Building, Jiyi Industrial Park,
No. 270 Changjiang Road, Panyu District,
Guangzhou City, Guangdong Province, China 511447

January 5, 2022

Dear Sirs,

We would like to apply for the type approval according to ECE.

Function	**ECE approval number**
Electric Cables	E57*118RII04/00*0081*00

Trade name or mark	:	融盛科技 Rong Sheng
Manufacturer's name for type of device	:	RS-WH10100
Name and address of manufacturer	:	Guangzhou Rongsheng Technology Co., Ltd. 4th Floor, G Building, Jiyi Industrial Park, No. 270 Changjiang Road, Panyu District, Guangzhou City, Guangdong Province, China 511447

We confirm that the above mentioned application has not been submitted to any other EC member state nor has any other member state granted a corresponding approval.

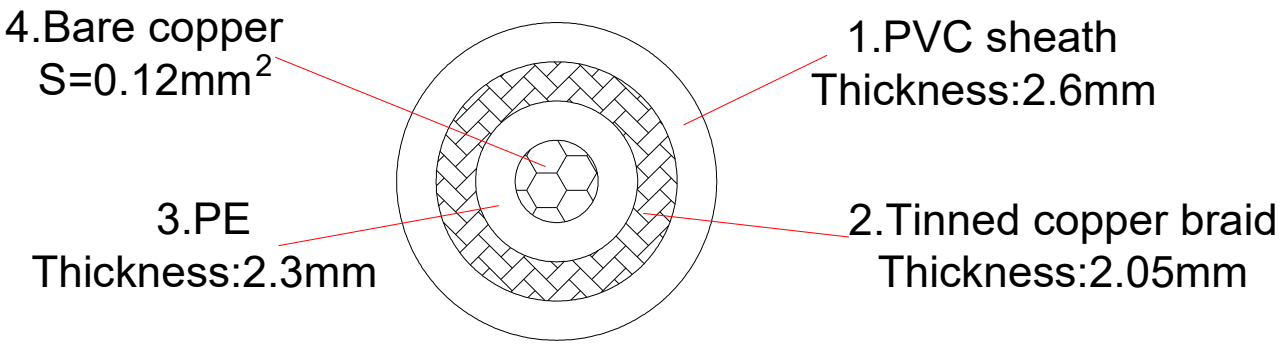
Sincerely

Mr. Zhu Xiaokang
Guangzhou Rongsheng Technology Co., Ltd.

Information folder No. :	RS-WH10100-00
First application date :	January 5, 2022

INFORMATION DOCUMENT

1	**General**	
1.1	Make (trade name of manufacturer)	融盛科技 Rong Sheng
1.1.1	Type and general commercial description	RS-WH10100
1.1.2	Location of that marking	Label on the surface of cable.
1.1.3	Approval mark	See below drawings
1.1.4	In the case of components and separate technical units, location and method of affixing of the ECE approval mark	Label on the surface of cable.
1.1.5	Name and address of manufacturer	Guangzhou Rongsheng Technology Co., Ltd. 4th Floor, G Building, Jiyi Industrial Park, No. 270 Changjiang Road, Panyu District, Guangzhou City, Guangdong Province, China 511447
1.1.6	Name(s) and address(es) of assembly plant(s)	See 1.1.5.
1.1.7	Name and address of sales representative	N/A
2	Interior Materials	
2.1.	Material(s) used for	N/A
2.2.	Base material(s)/designation	N/A
2.3.	Composite/single material, number of layers	N/A
2.4.	Type of coating	N/A
2.5.	Maximum/minimum thickness (mm)	N/A
2.6.	Type-approval number, if available	N/A
3	Insulation Materials	
3.1.	Material(s) used for	N/A
3.2.	Base material(s)/designation	N/A
3.3.	Composite/single material, number of layers	N/A
3.4.	Type of coating	N/A
3.5.	Maximum/minimum thickness (mm)	N/A
3.6.	Type-approval number, if available	N/A
4	Electric Cables	Single Core
4.1.	Material(s) used for	Video harness
4.2.	Base material(s)/designation	Refer to drawing No. RS-WH10100-01
4.3.	Composite/single material, number of layers	Refer to drawing No. RS-WH10100-01
4.4.	Type of coating	N/A
4.5.	Maximum/minimum thickness (mm)	Refer to drawing No. RS-WH10100-01
4.6.	Type-approval number, if available	N/A
4.7.	Outer color	Black



Electric Cables	
Drawing No.	RS-WH10100-01

Approval mark

a=8 mm min

Trade mark

融盛科技
Rong Sheng

XXXX means an approval number, please refer to the certificate.

Electric Cables	
Drawing No.	RS-WH10100-02