

TEST REPORT

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1.	Test Report No.	:	ERL/2020-21/3100008237A / 107	17.12.2020
2.	SO No.	:	3100008237	
3.	Customer's Name	:	RAVIRAJ PROCESS CONTROLS	
4.	Customer's Address	:	Plot No. A-795, TTC Industrial Area, MIDC Village Khairne, Navi Mumbai, Thane Navi Mumbai-400709	
5.	Letter Reference and Date	:	Email dt. 03.09.2020	
6.	Kind Attention	:	Mr. Nitin K. Head, Marketing	
7.	Service Requirements	:	Testing of Cable samples as per AIS 140.	
8.	No. of Samples	:	01	
9.	No. of Pages	:	03	
10.	Test Report Compiled By	:		<i>S.P. Mane</i> 18/12/20 Ms. S.P. MANE DEPUTY MANAGER
11.	Test Report Verified by	:		<i>R.R. Naik</i> 18/12/2020 Ms. R. R. NAIK DEPUTY MANAGER
12.	Test Report Approved by	:		<i>M.A. Bawase</i> M. A. BAWASE DEPUTY GENERAL MANAGER

Place of Issue: PUNE

Date of Issue: 17.12.2020

DISCLAIMER:

This test report pertains only to the components / parts / assemblies / vehicles etc. actually tested at ARAI in the presented condition based on the documents / information produced / submitted by the customer. The issuance of this test report alone does not indicate any measure of approval, certification, supervision, control of quality surveillance by ARAI of the product. No extract, abridgement or abstraction from this test report shall be published or used to advertise the product without the written consent of the Director, ARAI, who reserves the absolute right to agree or reject all or any of the details of any items of publicity for which consent may be sought. ARAI is in no way responsible for any misuse of copying of any design / type / system in connection with entire vehicle / components / parts and assemblies. Breach of any statutory provision of Indian laws or laws of other countries, will be the sole responsibility of the customer and ARAI shall not be liable for any claims or damages, made by the party, whatsoever, the customer shall alone be liable for the same, and undertakes to indemnify ARAI in this regard. Further, the ARAI has the right to initiate cancellation / withdrawal of the certificate issued, in case of any fraud, misrepresentation, when it surfaces and comes in the knowledge of ARAI. **The appropriate local courts at Pune shall have the jurisdiction in respect of any dispute, claim or liability arising out of this report.**

ARAI will preserve the tested samples for a period of ONE month from the date of issue of the test report. Queries, if any, regarding the sample or the test report, will be entertained / attended to in this stipulated period of one month only. Further, all the related test standards, drawings supplied by customer, letters, e mails etc exchanged with respect to this test work will be preserved in our custody for a span of only THREE years from the date of the test report.

An ISO 9001, ISO 14001, OHSAS 18001 Certified and ISO/IEC17025 Accredited Organization

TEST REPORT

Customer's Name : RAVIRAJ PROCESS CONTROLS.
 Service requirements : Testing of Cable samples as per AIS 140
 Date of testing : 07.12.2020 to 11.12.2020

1. Introduction:

The customer has submitted wire sample for testing as detailed below:

1. Details of the cables submitted for testing (refer notes on page 2 of this checklist):

Sr. No.	Manufacturer's Name	Nominal Cross Sectional Area, mm ²	Color	Part No. (if any)	Batch No. & date	Conductor Material	Insulation Material	Wire Grade/ Type	Applicable standard (AIS028 or DIN 72551 or ISO 6722)	
a.	RAVIRAJ PROCESS CONTROLS	0.50	RED	Not Provided	03-09-20	ANNEALED BARE COPPER	FLRY-B	AUTO CABLE	DIN 72551	
2. Details of Wiring Harness (not mandatory):										
a.	Manufacturer's name	RAVIRAJ PROCESS CONTROLS			d.	Identification code				Not Provided
b.	Drawing/ part number	0.50SQMM, ABC, FLRY-B CABLE			e.	Total number of cables in W/H				Not Provided
c.	Batch number and date	03-09-2020			f.	How many cables are of same grade and sizes?				Not Provided

2.0 Test results:

2.1 Flammability Test as per; IS: 2465-1984, Clause No.22, IS 10810 (Part 53)

Sr. No.	Wire Identification	Period of Burning, Seconds		Unaffected Portion of wire, mm	
		Specified	Observed	Specified	Observed
1	0.50 mm ² , Red	Period of burning after removal of the flame shall not exceed 60 seconds.	1	The unaffected portion (un charred) from the lower edge of top clamp shall be at least 50 mm	322

2.2 Electrical Properties as per; DIN 72551.

Sr No	Wire Identification	Conductor Resistance, mΩ/m, Clause No. 3.5.1		Thirty-minute Electric Strength, Clause No. 3.5.3 Requirement: Note 1*	Specific volume resistivity of insulation at 70 ⁰ C, Clause No. 3.6.1 Requirement: Note 2*
		Specified at 20°C (For bare copper)	Observed		
1	0.50 mm ² , Red	34.1 min to 37.1 max	35.8	No breakdown occurred at 1 kV for 30 minutes and 5 kV for 5 minutes	More than 10 ¹² Ω.cm

*Note 1: No disruptive discharge shall occur in the cable with any of test voltage applied:

- 1 kV up to 30 minutes.
- Up to 5 kV for 5 minutes

*Note 2: The Specific volume resistivity shall be at least 10¹⁰ Ω .cm

3.0 Remarks:

- Electrical cable sample submitted for testing meets the requirements of Flammability (as per IS 2465) and Electrical properties (as per DIN 72551) as specified in AIS 140 (Sr. no. 7 and 8 of table 6B).

Test report compiled by

Sorame
 18/12/20
 Ms. S.P. MANE
 DEPUTY MANAGER

Test report verified by

Naik
 18/12/2020
 Ms. R. R. NAIK
 DEPUTY MANAGER