

Rolycab[®] POWERFLEX



www.rolycab.com

ABOUT US:

Rolycab Industries, a cables manufacturing company, is an ISO 9001 Certified Company and was established in the year 2006. "Rolycab Industries" is distinguished by ROHS, CE and URS for quality products. Our products are marked with ISI (IS : 694). Our manufacturing unit is located in Umbergaon. We also established a new manufacturing unit of Rigid PVC Duct and Channel at Vasai, in the year 2011.

The company specializes in manufacturing Instrumentation cables, Control cables, Thermocouple extensions & Compensating cables, and all kinds of Single core and Multi core wires. Adding to this range, we introduce our new product, ROLYCAB POWERFLEX.

ROLYCAB POWERFLEX

ROLYCAB POWERFLEX is formed with multiple layers of thin copper stripes, insulated with high resistance, self extinguishing PVC compound. In this product the holes are punched directly through the laminates and are connected. The advantage of this product is that there is elimination of lugs, which eventually reduces labour and well as process cost also making the installation easier. This product is running successfully in the American as well as the European market.

FEATURES:

- Rolycab Powerflex consists of copper lamination with high quality durable polymers.
- Internal copper laminates are insulated in such a way that it helps to give flexibility in bending and twisting.
- To get optimum surface connectivity terminals can be created by direct punch on copper lamination.
- It reduces cost of labour and eliminated cost of lugs.
- It is an alternative to large sizes of cables with lugs and solid rigid busbars for a panel board.
- It requires less space for high ampere.
- It is very easy to use as the product is flexible and easy to bend.
- It is also available as per drawing.

APPLICATION:

- Switch board & Panel
- Motor control center
- Power supply
- Battery storage & supply
- DG set for power generation
- Control AC/DC driven unit
- Transformer
- Electrical machinery
- Power convertor
- Busbar system & link
- UPS System
- Windmill power generator unit
- Combination motor starter, controller
- Railways, coach & power supply system
- Requirement of high ampere with small conductor size

SELECTION OF ROLYCAB POWERFLEX

Ex : For a current of 400A with
 $T_1 = 40^\circ\text{C} - T_2 = 90^\circ\text{C}$

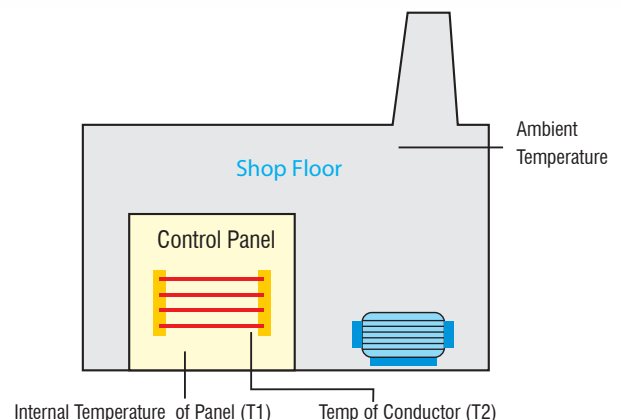
1) $\Delta T = 90 - 40 = 50^\circ\text{C}$ ($T_2 - T_1$)

2) In 50°C column, find the closest current value to 400A

3) Size : $5 \times 20 \times 1.00\text{mm}$

OR $3 \times 24 \times 1.00\text{mm} = 413 \text{ Amp.}$

Select according to size of Terminal.



ROLYCAB POWERFLEX SIZES & AMPLICITY TABLE

A	Part Code	N X A X B			sqmm	$\Delta T(K)$					Current Coefficient		Length 2M
		N	A	B		70	60	50	40	30	2	* 3	* Pack qty
125A	1258605	8	X 6	X 0.5	24	196	182	166	143	128	1.72	2.25	10
	1253908	3	X 9	X 0.8	21.60	158	147	134	120	104	1.72	2.25	10
	1253135	3	X 13	X 0.5	19.50	198	184	167	150	130	1.72	2.25	10
	1252158	2	X 15.5	X 0.8	25.80	252	234	212	191	165	1.72	2.25	10
250A	2504158	4	X 15.5	X 0.8	49.60	380	350	320	286	248	1.72	2.25	10
	2502201	2	X 20	X 1	40	326	300	275	246	214	1.72	2.25	5
	2503201	3	X 20	X 1	60	428	395	360	323	280	1.72	2.25	5
	2502241	2	X 24	X 1	48	450	416	380	340	295	1.72	2.25	5
	2506135	6	X 13	X 0.5	39	300	277	253	226	196	1.72	2.25	5
400A	4005201	5	X 20	X 1	100	498	460	420	376	326	1.72	2.25	5
	4003241	3	X 24	X 1	72	490	453	413	370	320	1.72	2.25	5
	4004241	4	X 24	X 1	96	550	510	465	416	360	1.72	2.25	5
	4002321	2	X 32	X 1	64	480	445	406	363	315	1.72	2.25	5
	4002401	2	X 40	X 1	80	538	500	455	406	352	1.72	2.25	5
	4006158	6	X 15.5	X 0.8	74.4	476	440	402	360	318	1.72	2.25	5
500A	5005241	5	X 24	X 1	120	608	563	514	460	398	1.72	2.25	5
	5004321	4	X 32	X 1	128	648	600	548	490	425	1.72	2.25	5
630A	6308241	8	X 24	X 1	192	802	743	678	606	525	1.72	2.25	5
	6305321	5	X 32	X 1	160	758	702	640	573	496	1.72	2.25	5
	6306321	6	X 32	X 1	192	846	783	715	640	555	1.72	2.25	5
	6305401	5	X 40	X 1	200	900	832	760	680	590	1.72	2.25	5
	6301201	10	X 20	X 1	200	762	706	645	576	500	1.72	2.25	5
800A	8000241	10	X 24	X 1	240	948	877	800	716	592	1.72	2.25	5
	8008321	8	X 32	X 1	256	1018	943	860	770	667	1.72	2.25	5
	8006401	6	X 40	X 1	240	1018	943	860	770	667	1.72	2.25	5
	8005501	5	X 50	X 1	250	1100	1016	930	830	718	1.72	2.25	5
1000A	1008401	8	X 40	X 1	320	1230	1140	1040	930	805	1.72	2.25	3
	1008501	8	X 50	X 1	400	1393	1290	1175	1050	912	1.72	2.25	3
1250A	1251501	10	X 50	X 1	500	1650	1525	1395	1245	1080	1.72	2.25	2

Note:

This table indicates the temperature rise produced by chosen current in the given section. This calculation does not take into account the heat dissipation from the switchgear.

Any other size on request with Minimum Order Quantity

Available in 2 & 3 meters of length in red copper.

* When using 2 or 3 ROLY CAB POWERFLEX in parallel use the current coefficient at 50 °C (T)

Example: 640 Amps

Amps capacity = 2 bar Parallel 640A x 1.72 = 1100A

= 3 bar Parallel 640A x 2.25 = 1440A

TECHNICAL CHARACTERISTICS:

- Weight and volume saving within the panel, i.e. cross section area 40% lower than a cable.
- Allows ultimate twisting and bending
- Time saver while assembling or installing
- Easy to use and cost effective
- Aesthetically improves the appearance of the panel.
- Improves safety and reliability of your panel due to the reduced amount of connection
- Guaranteed isolation thickness, including the corner.

CONDUCTOR :

- Copper strip Electrolytic grade (> 99.9% Cu)
- Surface : uncoated bare
- Tensile : > 200N/mm
- Extensibility : > 20% (minimum)
- Lamination thickness : 0.5mm to 1.00mm

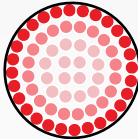

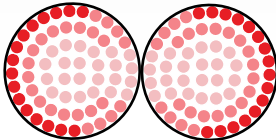

INSULATION:

- High grade polymer
- Colour : Black
- Thickness : 2mm ± 0.20mm
- Shore Hardness: A 85(I 3)
- ROHS Compliance
- Electrical Strength : > 20 Kv/mm
- Flammability : UL 94 VO
- Tensile Strength: > 9N/mm
- Elongation: > 250%
- Dielectric rigidity: 20 Kv/mm

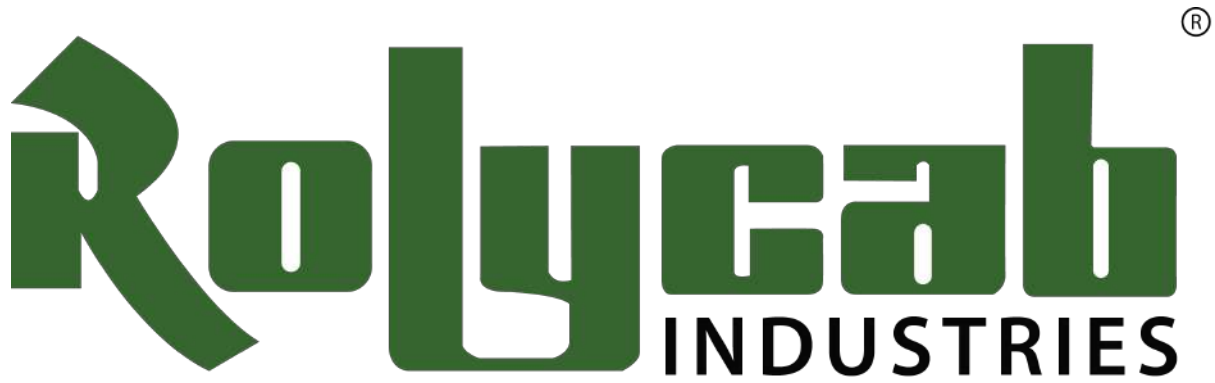
FINISHED PRODUCT:

- Operation Temperature: -20°C to +105°C
- Operating Voltage: 1100 volts AC & 1500 volts DC
- Test Voltage: 3000 volts/5 minutes

SKIN EFFECT

Comparison of the penetration depth between COPPER CABLE & ROLYCAB POWERFLEX		
250 A	 1 X 95 SQMM COPPER CABLES 95 SQMM	 1 X ROLYCAB POWERFLEX 2 X 20 X 1 40 SQMM
630 A	 2 X 150 SQMM COPPER CABLES 300 SQMM	 1 X ROLYCAB POWERFLEX 5 X 32 X 1 160 SQMM





ROLYCAB POWERFLEX.

Introduction:

Rolycab PowerFlex serves as a major cost saving item when used against regular copper busbar at various applications.

We are pleased to share a study and test we have conducted in order to highlight the advantages of Rolycab PowerFlex against regular copper busbar.

Two Tests were conducted with the following parameters with respect to 400 Ampere application & 630 Ampere Application.

*Third Party Test Reports have been attached below for your ready reference for Temperature Rise.

* All Tests have been conducted considering latest norms of **IEC61439-1**.

1.Comparative study of Rolycab PowerFlex against solid copper busbar for 400 Ampere Application.

Size of Rolycab PowerFlex used for this test: 4 x 24 x 1.00

Size of Solid Copper Busbar used for this test: 30 x 10

Material	Rolycab PowerFlex	Solid Copper Busbar
Area [Sq.mm]	96.00Sq.mm	300Sq.mm
Ampere Rating @50° C	400 Amperes	400 Amperes
Ampere Rating @70°C	500 Amperes	500 Amperes

2.Comparative study of Rolycab PowerFlex against solid copper busbar for 630 Ampere Application.

Size of Rolycab PowerFlex used for this test: 5 x 32 x 1.00

Size of Solid Copper Busbar used for this test: 50 x 10

Material	Rolycab PowerFlex	Regular Solid Copper Busbar
Area [Sq.mm]	160.00Sq.mm	500Sq.mm
Ampere Rating @50° C	640 Amperes	640 Amperes
Ampere Rating @70°C	760 Amperes	760 Amperes



सत्यमेव जयते
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES
GOVERNMENT OF INDIA

भारत सरकार
एमएसएमई परीक्षण केन्द्र (प.क्षे.)
सूक्ष्म लघु एवं मध्यम उद्यम मंत्रालय
कुर्ला अंधेरी मार्ग, साकी नाका,
मुंबई - 400 072.

पत्र संख्या: एमएसएमई-पके/मुंबई/2022-23 (285)

दिनांक: 11.10.2022

मेसर्स,
रोलीकैब इंडस्ट्रीज
प्लॉट नंबर 4/5/6, मानेक इंडस्ट्रियल पार्क,
सर्वेक्षण संख्या 31/1/3/1-पी4, गणगदेवी रोड,
गांव - पालगाम, तालुका - उम्बर्गगांव
जिला वलसाड, गुजरात - 396170

महोदय,

जॉब ओर्डर संख्या क्र. **MSMETC-WR/EL/124-127/08/2022-23** के संदर्भ में जांचे गये उत्पाद की टेस्ट रिपोर्ट(स) क्र. **MSMETC-WR/EL/124-127/10/2022-23** (कुल रिपोर्ट(स)04) आपको प्रेषित की जा रही है।

कृपया प्राप्ति की रसीद भेजें।

संलग्न:- टेस्ट रिपोर्ट(स)(04)

वि. वि. गायकवाड
11/10/22

कृते निदेशक

वि. वि. गायकवाड
सहायक निदेशक



एम.एस.एम.ई परीक्षण केन्द्र (प.क्षे),

सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय,

भारतसरकार,

कुर्ला-अंधेरीरोड, साकीनाका, मुम्बई - 400 072.

टेलीफोन: 022 - 28570588, 28576998

फैक्स : 022 - 28572238.

e-mail : dctc-wr@dcm sme.gov.in



MSME TESTING CENTRE (W.R),

Ministry of Micro, Small & Medium Enterprises,

Government of India,

Kurla Andheri Road, Saki Naka,

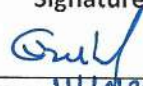
Mumbai - 400 072.

Tel.: 022 - 28570588, 28576998

Fax: 022 - 28572238.

Web: www.msme testingcentre.gov.in

परीक्षण रिपोर्ट TEST REPORT

रिपोर्ट संख्या / Report No MSMETC-WR/EL/124/08/2022-23	जारी करने की तिथि/ Date of Issue 11.10.2022	कुल पृष्ठ संख्या/Total Page Nos. 02
1. कार्य संख्या / Job Order No. :	CSC/EL/124-127/09/2022-23	
2. तिथि / Date :	21.09.2022	
C U S T O M E R	3. नाम / M/s. :	Rolyca.b industries
	4. पता / Address :	Plot No. 4/5/6, Manek Industrial Park, Survey No. 31/1/3/1-P4, Ganagadevi Road, Village - Palgam, Taluka - Umbergaon Dist. Valsad, Gujrat - 396170
	5. अनुरोध पत्र संख्या/ Request : Letter No.	Nil
	6. तिथि/Date :	19.09.2022
	7. सैम्पल प्राप्ति का दिनांक / Date of receipt of sample :	21.09.2022
	8. सैम्पल की स्थिति/ Condition of the sample(s) :	Suitable for testing
	9. सैम्पल-कोड/ Sample Code (if any) :	Nil
10. टी.आर.5 संख्या / T. R. 5 No.:	2009220018864	
तिथि / Date:	20/09/2022	
11. द्वारा जारी / Issued by :	Signature  11/10/2022	

N.B.: 1. This report pertains to the particular sample submitted for test.

2. This report shall not be reproduced in part or full.

3. The Test / Calibration Report shall not be used for Legal purpose and shall not be produced to the court of law.

4. Tested sample(s) should be collected within 30 days from issue of this report failing which no claim whatsoever & no correspondence in matter shall be entertained and such samples(s) will be disposed as per Govt. Procedure.

V. V. Gaikwad
Assistant Director

टेस्ट रिपोर्ट/Test Report

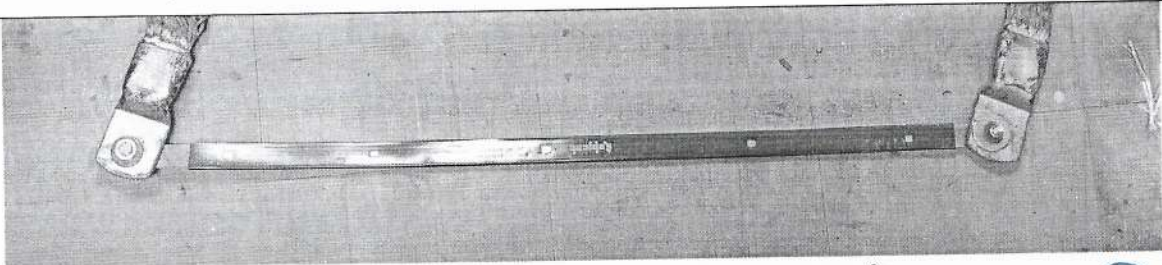


रिपोर्ट नं./Report No.	: MSMETC-WR/EL/124/09/2022-23
Date	: 21.09.2022
सैम्पल -विवरण / Sample Description :	: Polymer Insulated Flexible Copper Busbar Size : 04 nos. x 24 mm (width) x 1.0mm (thickness) of each copper laminate of 1 mtr length Make : ROLYCAB POWERFLEX
मात्रा /Quantity:	: 1set.
किया गया परीक्षण / Test Conducted	: Verification of Temperature Rise
परीक्षण विशिष्ट/ Test Specification	: 1) IEC 61439-1 Specification for Low Voltage Switchgear and Controlgear Assemblies Part 1 : General Rules 2) As per customer's requirement
मानककासंशोधन, यदिकोईहो Amendment of Standards, if any	: Nil
परीक्षणप्रारंभदिनांक/ Test Commencement Date	: 28.09.2022
परीक्षणपूराहोनेका दिनांक / Test Completion Date	: 29.09.2022

परिणाम/ Results

क्रमसंख्या Sr. No.	परीक्षणविवरण Test Description	मानकविशिष्ट Standard Specification	परीक्षण परिणाम Test Results	टिप्पणी Remarks									
1	Verification of Temperature Rise (Cl. 10.10 of IEC 61439-1 & Customer's Requirement) A different rating of current i.e. 400 A/500 A is passed through bus bar and temperature is measure for each current rating after attaining steady state condition.(i.e. after 8 hrs)	Temperature rise on busbar should not exceed above ambient by For 400 A : 50 °C (+ 5°C) For 500 A : 70 °C (+ 5°C) (Customer's requirement)	<table><tr><td>Current (Amp.)</td><td>Amb. Temp. (°C)</td><td>Temp. rise on busbar (°C)</td></tr><tr><td>400</td><td>29.3</td><td>39.6</td></tr><tr><td>500</td><td>29.7</td><td>47.4</td></tr></table>	Current (Amp.)	Amb. Temp. (°C)	Temp. rise on busbar (°C)	400	29.3	39.6	500	29.7	47.4	Satisfactory Satisfactory
Current (Amp.)	Amb. Temp. (°C)	Temp. rise on busbar (°C)											
400	29.3	39.6											
500	29.7	47.4											

General Remarks : The sample meet the customers requirement with respect to the test carried out.



द्वाराजारी :
Issued by:

Manoj Khunekar
Signature

प्राधिकृतहस्ताक्षरकर्ता: Manoj Khunekar, IEDS
Authorized Signatory : Asst. Director Gr.-I (Elect)



सत्यमेव जयते

एम.एस.एम.ई परीक्षण केन्द्र (प.क्षे),

सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय,

भारतसरकार,

कुर्ला-अंधेरीरोड, साकीनाका, मुम्बई - 400 072.

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फैक्स : 022 - 28572238.

e-mail : dctc-wr@dcmsme.gov.in



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Mumbai - 400 072.

Tel.: 022 - 28570588, 28576998

Fax: 022 - 28572238.

Web: www.msmetcmumbai.gov.in

परीक्षण रिपोर्ट
TEST REPORT

रिपोर्ट संख्या / Report No MSMETC-WR/EL/125/08/2022-23	जारी करने की तिथि/ Date of Issue 11.10.2022	कुल पृष्ठ संख्या/Total Page Nos. 02
1. कार्य संख्या / Job Order No. :	CSC/EL/124-127/09/2022-23	
2. तिथि / Date :	21.09.2022	
C U S T O M E R	3. नाम / M/s. :	Rolycab industries
	4. पता / Address :	Plot No. 4/5/6, Manek Industrial Park, Survey No. 31/1/3/1-P4, Ganagadevi Road, Village - Palgam, Taluka - Umbergaon Dist. Valsad, Gujrat - 396170
	5. अनुरोध पत्र संख्या/ Request : Letter No.	Nil
	6. तिथि/Date :	19.09.2022
	7. सैम्पल प्राप्ति का दिनांक / Date of receipt of sample :	21.09.2022
	8. सैम्पल की स्थिति/ Condition of the sample(s)	Suitable for testing
	9. सैम्पल-कोड/ Sample Code (if any) :	Nil
10. टी.आर.5 संख्या / T. R. 5 No.:	2009220018864	
तिथि / Date:	20/09/2022	
11. द्वारा जारी / Issued by :	Signature 	

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V. V. Gaikwad
Assistant Director

टेस्ट रिपोर्ट/Test Report

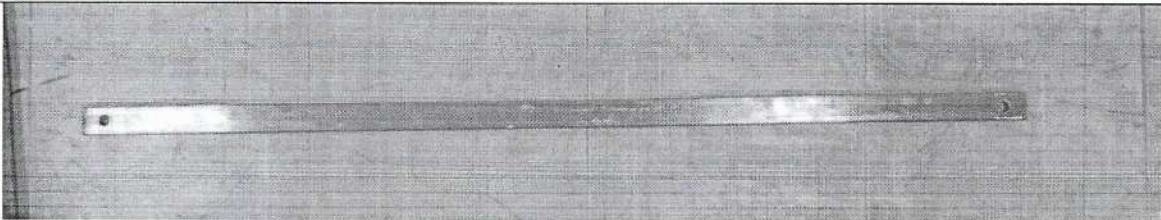


रिपोर्ट नं./Report No.	: MSMETC-WR/EL/125/09/2022-23
Date	: 21.09.2022
सैम्पल -विवरण / Sample Description :	: Solid Copper Busbar Size : 30 mm(width) x 10 mm (thickness) x 1 Mtr length
मात्रा /Quantity:	: 1 No.
किया गया परीक्षण / Test Conducted	: Verification of Temperature Rise
परीक्षण विशिष्ट/ Test Specification	: 1) IEC 61439-1 Specification for Low Voltage Switchgear and Controlgear Assemblies Part 1 : General Rules 2) As per customer's requirement
मानककासंशोधन, यदिकोईहो Amendment of Standards, if any	: Nil
परीक्षणप्रारंभदिनांक/ Test Commencement Date	: 30.09.2022
परीक्षणपूराहोनेका दिनांक / Test Completion Date	: 01.10.2022

परिणाम/ Results

क्रमसंख्या Sr. No.	परीक्षणविवरण Test Description	मानकविशिष्ट Standard Specification	परीक्षण परिणाम Test Results	टिप्पणी Remarks									
1	Verification of Temperature Rise (Cl. 10.10 of IEC 61439-1 & Customer's Requirement) A different rating of current i.e. 400 A /500 A is passed through bus bar and temperature is measure for each current rating after attaining steady state condition. (i.e. after 8 hrs)	Temperature rise on busbar should not exceed above ambient by For 400 A : 50 °C (+ 5°C) For 500 A : 70 °C (+ 5°C) (Customer's requirement)	<table><tr><td>Current (Amp.)</td><td>Amb. Temp. (°C)</td><td>Temp. rise on busbar (°C)</td></tr><tr><td>400</td><td>29.5</td><td>36.2</td></tr><tr><td>500</td><td>29.7</td><td>46.2</td></tr></table>	Current (Amp.)	Amb. Temp. (°C)	Temp. rise on busbar (°C)	400	29.5	36.2	500	29.7	46.2	Satisfactory Satisfactory
Current (Amp.)	Amb. Temp. (°C)	Temp. rise on busbar (°C)											
400	29.5	36.2											
500	29.7	46.2											

General Remarks : The sample meet the customers requirement with respect to the test carried out.



द्वाराजारी :
Issued by:

11/10/22

प्राधिकृतहस्ताक्षरकर्ता: Manoj Khunekar, IEDS
Authorized Signatory : Asst. Director Gr. I (Elect)



एम.एस.एम.ई परीक्षण केन्द्र (प.क्षे),

सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय,

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Government of India,

Kurla Andheri Road, Saki Naka,

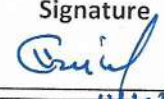
Mumbai - 400 072.

Tel.: 022 - 28570588, 28576998

Fax: 022 - 28572238.

Web: www.msme-tc-mumbai.gov.in

परीक्षण रिपोर्ट TEST REPORT

रिपोर्ट संख्या / Report No MSMETC-WR/EL/126/08/2022-23	जारी करने की तिथि/ Date of Issue 11.10.2022	कुल पृष्ठ संख्या/Total Page Nos. 02
1. कार्य संख्या / Job Order No. :	CSC/EL/124-127/09/2022-23	
2. तिथि / Date :	21.09.2022	
C U S T O M E R	3. नाम / M/s. :	Rolycab industries
	4. पता / Address :	Plot No. 4/5/6, Manek Industrial Park, Survey No. 31/1/3, I-P4, Ganagadevi Road, Village - Palgam, Taluka - Umbergaon Dist. Valsad, Gujrat - 396170
	5. अनुरोध पत्र संख्या/ Request : Letter No.	Nil
	6. तिथि/Date :	19.09.2022
	7. सैम्पल प्राप्ति का दिनांक / Date of receipt of sample :	21.09.2022
	8. सैम्पल की स्थिति/ Condition of the sample(s) :	Suitable for testing
	9. सैम्पल-कोड/ Sample Code (if any) :	Nil
	10. टी.आर.5 संख्या /T. R. 5 No.:	2009220018864
	तिथि / Date:	20/09/2022
11. द्वारा जारी / Issued by :	Signature 	

N.B.: 1. This report pertains to the particular sample submitted for test.

2. This report shall not be reproduced in part or full.

3. The Test / Calibration Report shall not be used for Legal purpose and shall not be produced in the court of law.

4. Tested sample(s) should be collected within 30 days from issue of this report failing which the claim whatsoever & no correspondence in matter shall be entertained and such samples(s) will be disposed as per Govt. Procedure.



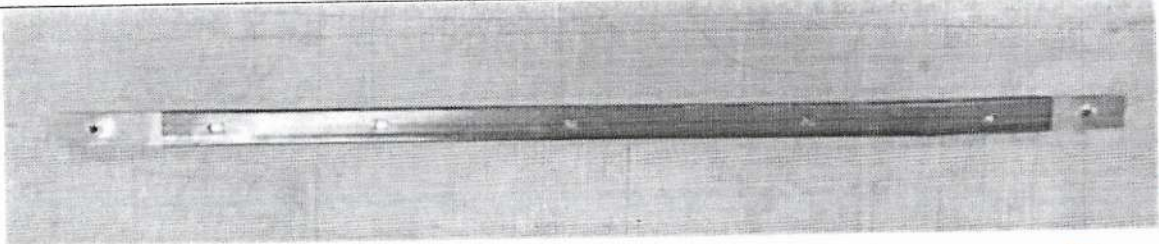
टेस्ट रिपोर्ट/Test Report

रिपोर्ट नं./Report No.	: MSMETC-WR/EL/126/09/2022-23
Date	: 21.09.2022
सैम्पल -विवरण / Sample Description :	: Polymer Insulated Flexible Copper Busbar Size : 05 nos. x 32 mm (width) x 1.0mm (thickness) of each copper laminate of 1 mtr length Make : ROLYCAB POWERFLEX
मात्रा /Quantity:	: 1set.
किया गया परीक्षण / Test Conducted	: Verification of Temperature Rise
परीक्षण विशिष्ट/ Test Specification	: 1) IEC 61439-1 Specification for Low Voltage Switchgear and Controlgear Assemblies Part 1 : General Rules 2) As per customer's requirement
मानककासंशोधन, यदिकोईहो Amendment of Standards, if any	: Nil
परीक्षणप्रारंभदिनांक/ Test Commencement Date	: 03.10.2022
परीक्षणपूराहोनेका दिनांक / Test Completion Date	: 04.10.2022

परिणाम/ Results

क्रमसंख्या Sr. No.	परीक्षणविवरण Test Description	मानकविशिष्ट Standard Specification	परीक्षण परिणाम Test Results	टिप्पणी Remarks									
1	Verification of Temperature Rise (Cl. 10.10 of IEC 61439-1 & Customer's Requirement) A different rating of current i.e. 640 A/ 760 A is passed through bus bar and temperature is measure for each current rating after attaining steady state condition. (i.e. after 8 hrs)	Temperature rise on busbar should not exceed above ambient by For 640 A : 50 °C (+ 5°C) For 760 A : 70 °C (+ 5°C) (Customer's requirement)	<table><tr><td>Current (Amp.)</td><td>Amb. Temp. (°C)</td><td>Temp. rise on busbar (°C)</td></tr><tr><td>640</td><td>29.3</td><td>45.0</td></tr><tr><td>760</td><td>29.2</td><td>61.9</td></tr></table>	Current (Amp.)	Amb. Temp. (°C)	Temp. rise on busbar (°C)	640	29.3	45.0	760	29.2	61.9	Satisfactory Satisfactory
Current (Amp.)	Amb. Temp. (°C)	Temp. rise on busbar (°C)											
640	29.3	45.0											
760	29.2	61.9											

General Remarks : The sample meet the customers requirement with respect to the test carried out.



द्वाराजारी :
Issued by:


21/10/2022

प्राधिकृतहस्ताक्षरकर्ता: Manoj Khunekar, IEDS
Authorized Signatory : Asst. Director Gr.-I (Elect)



एम.एस.एम.ई परीक्षण केन्द्र (प.क्षे),

सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय,

भारतसरकार,

कुर्ला-अंधेरीरोड, साकीनाका, मुम्बई - 400 072.

टेलीफोन: 022 - 28570588, 28576998

फैक्स : 022 - 28572238.

e-mail : dctc-wr@dcmsme.gov.in



MSME TESTING CENTRE (W.R),

Ministry of Micro, Small & Medium Enterprises,

Government of India,

Kurla Andheri Road, Saki Naka,

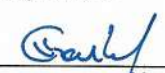
Mumbai - 400 072.

Tel.: 022 - 28570588, 28576998

Fax: 022 - 28572238.

Web: www.msme-tc-mumbai.gov.in

परीक्षण रिपोर्ट TEST REPORT

रिपोर्ट संख्या / Report No MSMETC-WR/EL/127/08/2022-23	जारी करने की तिथि/ Date of Issue 11.10.2022	कुल पृष्ठ संख्या/Total Page Nos. 02
1. कार्य संख्या / Job Order No. :	CSC/EL/124-127/09/2022-23	
2. तिथि / Date :	21.09.2022	
R E M E R C U S T O M E R	3. नाम / M/s. :	Rolycab industries
	4. पता / Address :	Plot No. 4/5/6, Manek Industrial Park, Survey No. 31/1/3/1-P4, Ganagadevi Road, Village - Palgam, Taluka - Umbergaon Dist. Valsad, Gujrat - 396170
	5. अनुरोध पत्र संख्या/ Request : Letter No.	Nil
	6. तिथि/Date :	19.09.2022
	7. सैम्पल प्राप्ति का दिनांक / Date of receipt of sample :	21.09.2022
	8. सैम्पल की स्थिति/ Condition of the sample(s) :	Suitable for testing
	9. सैम्पल-कोड/ Sample Code (if any) :	Nil
	10. टी.आर.5 संख्या / T. R. 5 No.:	2009220018864
	तिथि / Date:	20/09/2022
11. द्वारा जारी / Issued by :	Signature  V. V. Gaikwad Assistant Director	

N.B.: 1. This report pertains to the particular sample submitted for test.

2. This report shall not be reproduced in part or full.

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टेस्ट रिपोर्ट/Test Report

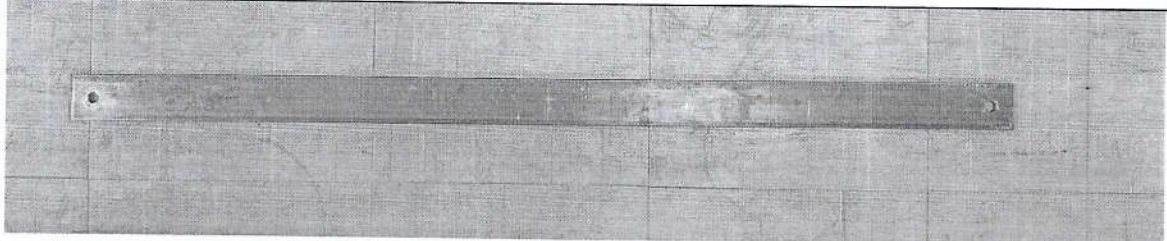


रिपोर्ट नं./Report No. : MSMETC-WR/EL/127/09/2022-23
Date : 21.09.2022
सैम्पल -विवरण /
Sample Description : Solid Copper Busbar
Size : 50 mm(width) x 10 mm(thickness) x 1 Mtr length
मात्रा /Quantity: : 1 No.
किया गया परीक्षण /
Test Conducted : Verification of Temperature Rise
परीक्षण विशिष्ट/
Test Specification : 1) IEC 61439-1 Specification for Low Voltage Switchgear and Controlgear Assemblies Part 1 : General Rules
2) As per customer's requirement
मानककासंशोधन, यदिकोईहो
Amendment of Standards, if any : Nil
परीक्षणप्रारंभदिनांक/
Test Commencement Date : 07.10.2022
परीक्षणपूराहोनेका दिनांक / Test
Completion Date : 10.10.2022

परिणाम/ Results

क्रमसंख्या Sr. No.	परीक्षणविवरण Test Description	मानकविशिष्ट Standard Specification	परीक्षण परिणाम Test Results	टिप्पणी Remarks									
1	Verification of Temperature Rise (Cl. 10.10 of IEC 61439-1 & Customer's Requirement) A different rating of current i.e. 640 A /760 A is passed through bus bar and temperature is measure for each current rating after attaining steady state condition. (i.e. after 8 hrs)	Government of India Temperature rise on busbar should not exceed above ambient by For 640 A : 50 °C (+ 5°C) For 760 A : 70 °C (+ 5°C) (Customer's requirement)	<table border="1"><thead><tr><th>Current (Amp.)</th><th>Amb. Temp. (°C)</th><th>Temp. rise on busbar (°C)</th></tr></thead><tbody><tr><td>640</td><td>29.2</td><td>39.8</td></tr><tr><td>760</td><td>29.7</td><td>59.4</td></tr></tbody></table>	Current (Amp.)	Amb. Temp. (°C)	Temp. rise on busbar (°C)	640	29.2	39.8	760	29.7	59.4	Satisfactory Satisfactory
Current (Amp.)	Amb. Temp. (°C)	Temp. rise on busbar (°C)											
640	29.2	39.8											
760	29.7	59.4											

General Remarks : The sample meet the customers requirement with respect to the test carried out.



द्वाराजारी :
Issued by:

प्राधिकृतहस्ताक्षरकर्ता: Manoj Khunekar, IEDS

Manoj
21/10/2022



मन्मथ जयते
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES
GOVERNMENT OF INDIA

भारत सरकार

एमएसएमई परीक्षण केन्द्र (प.क्षे.)
सूक्ष्म लघु एवं मध्यम उद्यम मंत्रालय
कुर्ला अंधेरी मार्ग, साकी नाका,
मुंबई - 400 072.

पत्र संख्या: एमएसएमई-पके/मुंबई/2022-23 | 1176

दिनांक: 19.07.2022

मेसर्स,
रोलीकैब इंडस्ट्रीज
प्लॉट नंबर 4/5/6, मानेक इंडस्ट्रियल पार्क,
सर्वेक्षण संख्या - 31/1/3/1-पी4, गंगादेवी रोड
ग्राम- पालगाम, तालुका- उम्बरगाँव, वलसाडी
गुजरात-396170

महोदय,

जॉब ओर्डर संख्या क्र. **CSC/EL/089/07/2022-23** के संदर्भ में जांचे गये उत्पाद की टेस्ट रिपोर्ट(स) क्र. **MSMETC-WR/EL/089/07/2022-23** (कुल रिपोर्ट(स)01) आपको प्रेषित की जा रही है।

कृपया प्राप्ति की रसीद भेजें।

वि. वि. गायकवाड
19/07/2022

कृते निदेशक

वि. वि. गायकवाड
सहायक निदेशक

संलग्न:- टेस्ट रिपोर्ट(स)(01)



एम.एस.एम.ई परीक्षण केन्द्र (प.क्षे),

सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय,

भारतसरकार,

कुर्ला-अंधेरीरोड, साकीनाका, मुम्बई - 400 072.

टेलीफोन: 022 - 28570588, 28576998

फैक्स : 022 - 28572238.

e-mail : dctc-wr@dcm sme.gov.in



MSME TESTING CENTRE (W.R),

Ministry of Micro, Small & Medium Enterprises,

Government of India,

Kurla Andheri Road, Saki Naka,

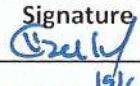
Mumbai - 400 072.

Tel.: 022 - 28570588, 28576998

Fax: 022 - 28572238.

Web: www.msme tc mumbai.gov.in

परीक्षण रिपोर्ट TEST REPORT

रिपोर्ट संख्या / Report No MSMETC-WR/EL/089/07/2022-23	जारी करने की तिथि/ Date of Issue 19.07.2022	कुल पृष्ठ संख्या/Total Page Nos. 02
1. कार्य संख्या / Job Order No. :	CSC/EL/089/07/2022-23	
2. तिथि / Date :	05.07.2022	
3. नाम / M/s. :	ROLYCAB INDUSTRIES	
4. पता / Address :	Plot No. 4/5/6, Manek Industrial Park, Survey No. - 31/1/3/1-P4, Gangadevi Road Village- Palgam, Taluka- Umbergaon, Valsad Gujarat-396170	
5. अनुरोध पत्र संख्या/ Request : Letter No.	Nil	
6. तिथि/Date :	04.07.2022	
7. सैम्पल प्राप्ति का दिनांक / Date of receipt of sample :	05.07.2022	
8. सैम्पल की स्थिति/ Condition of the sample(s) :	Suitable for testing	
9. सैम्पल-कोड/ Sample Code (if any) :	Nil	
10. टी.आर.5 संख्या /T. R. 5 No.:	0507220005692	
तिथि / Date:	05/07/2022	
11. द्वारा जारी / Issued by :	Signature  V. V. Gaikwad Assistant Director	

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टेस्ट रिपोर्ट/Test Report

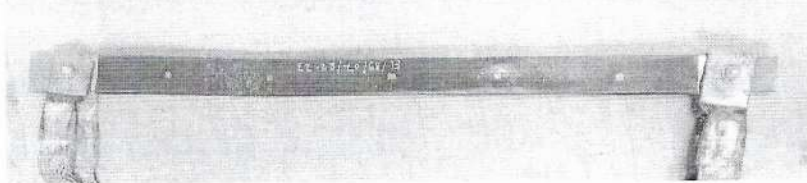


रिपोर्ट नं./Report No. : MSMETC-WR/EL/089/07/2022-23
Date : 05.07.2022
सैंपल -विवरण /
Sample Description : Polymer Insulated Copper Flexible Busbar
Size : 10 nos. x 50 mm (width) x 1.00 (thickness) of each
copper laminate of 1 mtr length
Make : ROLYTAB POWERFLEX
मात्रा /Quantity: : 1 set.
किया गया परीक्षण /
Test Conducted : Verification of Temperature Rise
परीक्षण विशिष्ट/
Test Specification : 1) IEC 61439-1 Specification for Low Voltage Switchgear and
Controlgear Assemblies Part 1 : General Rules
2) As per customer's requirement
मानक का संशोधन, यदि कोई हो
Amendment of Standards, if any : Nil
परीक्षण प्रारंभ दिनांक/
Test Commencement Date : 11.07.2022
परीक्षण पूरा होने का दिनांक / Test
Completion Date : 15.07.2022

परिणाम/ Results

क्रमसंख्या Sr. No.	परीक्षण विवरण Test Description	मानक विशिष्ट Standard Specification	परीक्षण परिणाम Test Results			टिप्पणी Remarks
1	Verification of Temperature Rise (Cl. 10.10 of IEC 61439-1 & Customer's Requirement) A different rating of current i.e. 1200 A/1300 A/ 1500A/ 1650 A is passed through bus bar and temperature is measure for each current rating after attaining steady state condition.	Temperature rise on busbar should not exceed above ambient by For 1200 A : 45 °C For 1300 A : 55 °C For 1500 A : 65 °C For 1650 A : 80 °C (Customer's requirement)	Current (Amp.)	Amb. Temp. (°C)	Temp. rise on busbar (°C)	
			1200	29.9	39.8	Satisfactory
			1300	30.2	47.0	Satisfactory
			1500	30.3	53.8	Satisfactory
			1650	30.0	79.4	Satisfactory

General Remarks : The sample meet the customers requirement with respect to the test carried out.



द्वारा जारी :
Issued by:

Manoj Khunekar
19/07/2022

प्राधिकृत हस्ताक्षरकर्ता: Manoj Khunekar, IEDS
Authorized Signatory : Asst. Director Gr.-I (Elect)

Certificate of Compliance

Application Of Council Of Directive For Low Voltage Directive
(LVD) 2014/35/EU, RoHS Directive 2011/65/EU

*This is to Certify that
The technical documentation of the company*

ROLYCAB INDUSTRIES

SURVEY NO: 31/1/3/1-P4, PLOT NO. – 4/5/6 MANEK INDUSTRIAL PARK,
GANGADEVI ROAD, VILLAGE-PALGAM, TALUKA- UMBERGAON,
DISTRICT – VALSAD, GUJARAT – 396170, INDIA.

for the products

**INSULATED FLEXIBLE BUSBAR WITH AND WITHOUT HALOGEN FREE
PROPERTIES. “ROLYCAB - POWERFLEX”**

(VOLTAGE. 100 AMP. TO 1250 AMP. 1100 V AC)

has been assessed and found to conform to the requirements of Directive for of Low Voltage Directive (LVD) 2014/35/EU, RoHS Directive 2011/65/EU This certificate refers to the information examined and read with manufacture's declaration of conformity. further, the product liability reset with the manufacturer or his representative in accordance with council Directive 85/374/EEC.

Certificate No	:20ICFG25	Issuance Date	: 17/09/2020
Initial Registration Date	:17/09/2020		
Date of Expiry	:16/09/2023		
1st Surve. Due	:17/08/2021	2nd Surve. Due	: 17/08/2022



Director

AQC MIDDLE EAST FZE.

E1-1401 E Amber Gem Tower, Sheikh Khalifa Bin Zayed Road,
2, Ajman, UAE. e-mail : info@aqcworld.com,

*Validity of the Certificate is subject to successful completion of surveillance audit on or before of due date. (in case surveillance audit is not allowed to be conducted, this certificate shall be suspended/withdrawal).

Certificate Verification: Please Re-check the validity of certificate at <http://www.aqcworld.com/activeclients.aspx> or www.aqcworld.com at Active Clients.

Certificate is the property of AQC Middle East FZE and shall be returned immediately when demanded

