भारतीय मानक ब्यूरो
Bureau of Indian Standards
The National Standards Body of India

For any other communication

Address: Delhi Branch Office - II-Manak Bhavan, 9 Bahadur Shah Zafar Marg, Delhi, CENTRAL DELHI,DELHI,110002

Phone: 011-23230131, 23233375

Fax: 01123234062

E-Mail: dlbo2@bis.gov.in

Web: www.bis.org.in, www.manakonline.in

BUREAU OF INDIAN STANDARDS

Attachment to Licence No. CM/L- 9641285

CM/L-No	Name of the Licensee with the Factory Address	Name of the Product	Indian Standard No.
9641285	ATC Cables -B- 16 & 17 . SECTOR 5 , DSIIDC BAWANA INDUSTRIAL AREA , BAWANA : 110039	POLYVINYL CHLORIDE INSULATED UNSHEATHED AND SHEATHED CABLES CORDS WITH RIGID AND FLEXIBLE CONDUCTOR FOR RATED VOLTAGES UP TO AND INCLUDING 1100 V	IS 694 : 2010

Endorsement No. 13 Dated 14-Dec-2021

Whereas, the licence was valid upto First January Two Thousand Twenty Two.

Now, consequent upon renewal, the validity of the licence given in schedule of the Licence Dated 31-DEC-2021 has been extended from First January Two Thousand Twenty Two to Thirty First December Two Thousand Twenty Two

Other terms and conditions of licence remain same.

Branch Head (Delhi Branch Office - II)

भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS
Parwanoo Branch Office

Address:H.No. IV, Sector-5,
Parwanoo,Dist.Solan(HP)-173220

Phones : 01792-235436 to 39
Fax: 01792-235435
E-Mail: nlbo@bis.org.in
web : http://www.bis.org.in

REGISTERED A/D

Out Ref :CM/L-9641285

Dated :18 Dec 2007

Subject: Grant of BIS Certification Marks Licence No. CM/L-9641285 as per IS 694 : 1990

ATC Cables,
Village Burranwala, Barotiwala, Tehsil Kasuali,
P.O. : Solan
Himachal Pradesh

Dear Sir,

With reference to your application, we are pleased to inform you that it has been decided to grant you licence to use the Standard Mark in respect of the following:

Product: PVC Insulated cables for working voltages upto and including 1100 V

IS No : IS 694 : 1990

PVC insulated cable for fixed wiring (single core only), flexible cord (single & multicore), cu & Al. conductor, sheathed/unsheathed, size upto 630 mm2 (excluding cables for outdoor use & low temperature use)

2. The licence is being granted with the explicit condition that you will mark entire/substantial production which conforms to the Indian Standards referred above.

3.The number assigned to this licence is CM/L- 9641285 which has been made operative from 17/12/2007 and is valid upto 16/12/2008. The licence number should invariably be referred to in your future correspondence.

4.According to sub-regulation (2) of Regulation 6 of Bureau of Indian Standards (Certification) Regulations,1988, the licence fee of Rs 1000/- and the marking fee of Rs. 23200.00as stipulated in the Second Schedule of this licence is payable by you with effect from 17/12/2007 for the period of validity of the licence.

Service tax @12.36% as applicable shall also be charged.

mark your product or not with the Standard Mark. [illegible]
27192.00for the licence fee (Rs.1000/-) and the minimum marking enclosed/sent separately.

6. This advance minimum marking fee will be carried over to the next year on every renewal. The actual marking fee calculated on the unit rate on the production marked or the minimum marking fe whichever is higher shall be payable by you at the time of renewal.

7. With a view to streamlining the reporting of quantity marked, calculation and collections of mark fee on the unit rate basis, fees will be calculated on the production marked during the first nine mon of operation of the licence at the time of first renewal and the production marked during twelve mo comprising the last three months of the previous operative year, at the time of second and subseque renewals. In case the licence expires, the entire production marked till the expiry date shall be take into account for calculating the marking fee payable.

8. The Scheme of Testing and Inspection DOC: STI/694/9:JUNE 2006 which has already been accepted by you vide your letter dated 13/12/2007will have to be implemented by your organizatio strictly and control function in your organization. The supervision of the operation of the Scheme s be done by a person responsible for the quality control function in your organization. Kindly infor the name and designation of the person who will be held responsible for the operation and mainten of the Scheme. Any future change in this respect will have to be communicated by you to us and whenever this takes place.

9. We are enclosing a sheet giving the preferred dimensions of the Standard Mark to enable you to prepare the designs of the Standard Mark for marking the above product. Photographic reduction i any size is permissible. This will ensure the relative proportions of the different dimensions are maintained. Preferred dimensions may be used as far as possible. Kindly get the designs of the stencil/label/rating plate incorporating the Standard Mark approved by us. You will be permitted t commence marking the above mentioned product only after approval by this office.

10. On commencement of marking of your product for which you are licensed, you may advertise product with Standard Mark in hoardings, slides and newspapers only during the validity of your licence. The use of Standard Mark on letterheads and publicity literature will be permitted only or receipt of your assurance that in the event of cancellation or lapsing of your licence, the letterhead with the Standard Mark will be destroyed/obliterated. The required assurance may please be subr in the enclosed proforma.

11. You are requested to intimate us the actual date from which you intend to introduce the use o Standard Mark on your product. Our Inspecting Officer may be present in your factory at that tim assist you in adopting the Scheme of Testing and Inspection (STI) and in the maintenance of test records.

12. The Licence is being granted for you factory situated at Village Burranwala, Baroliwala, T Kasuali Solan and the rights and privileges under the licence shall not be exercised by any other firm/company/factory,etc.This licence is not transferable.In the event of shifting of the manufact and testing equipment from the licenced premises to some other place ,use of Standard Mark sha stopped till the new premises are inspected and found to be satisfactory by us in respect of manufacturing and testing facilities available there and address of the new premises is endorsed licence.

factory is/are enclosed for your records.

14. You are requested to intimate to this office the address of your servicing unit where applicable an the name and designation of the person; his telephone and telex number who should be contacted in case of complaints. It is obligatory on your part as a licensee to keep this office informed about changes taking place from time to time in your declared list of servicing units.

15. The licence is under preparation and will be posted to you in due course.

16. You are requested to send us back the enclosed proforma No. CMD/PF615 duly filled in.

17. An instruction sheet containing Responsibilities of BIS Licensees is also enclosed for information compliance.

It may please be noted that licence is being granted subject to the condition that if samples draw BIS during surveillance visit immediately after grant of licence or sample submitted by you for lor duration tests fail to conform to the requirements of relevant Indian Standards in any requirement, tl licence shall be liable to be cancelled.

Kindly acknowledge receipt of this letter.

Thanking you,

(Y B Gadekar)
Scientist E

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Bureau of Indian Standards
The National Standards Body of India

For any other communication

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BUREAU OF INDIAN STANDARDS

Attachment to Licence No. CM/L- 9641386

CM/L-No	Name of the Licensee with the Factory Address	Name of the Product	Indian Standard No.
9641386	ATC Cables -B-16&17, SECTOR-5, BAWANA INDUSTRIAL AREA , BAWANA , DELHI : 110039	Crosslinked polyethylene insulated PVC sheathed cables: Part 1 For working voltage upto and including 1 100 V	IS 7098 : PART 1 : 1988

Endorsement No. 12 Dated 14-Dec-2021

Whereas, the licence was valid upto First January Two Thousand Twenty Two.

Now, consequent upon renewal, the validity of the licence given in schedule of the Licence Dated 31-DEC-2021 has been extended from First January Two Thousand Twenty Two to Thirty First December Two Thousand Twenty Two

Other terms and conditions of licence remain same.

Branch Head (Delhi Branch Office - II)

भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS
Parwanoo Branch Office

Address: H.No. 15, Sector-3,
Parwanoo, Dist.Solan(HP)-173220

Phones : 01792-235436 to 39
Fax: 01792-235435
E-Mail: nlbo@bis.org.in
web : http://www.bis.org.in

REGISTERED A/D

Our Ref :CM/L-9641386 Dated :18 Dec 2007

Subject: Grant of BIS Certification Marks Licence No. CM/L-9641386 as per IS 7098 : Part 1 : 1988

ATC Cables,
Village Burranwala, Barotiwala, Tehsil Kasuali,
Barotiwala
Distt : Solan
Himachal Pradesh

Dear Sir,

With reference to your application, we are pleased to inform you that it has been decided to grant you a licence to use the Standard Mark in respect of the following:

Product: **Crosslinked polyethylene insulated PVC sheathed cables: Part 1 For working voltage upto and including 1 100 V**

IS No : **IS 7098 : Part 1 : 1988**

Type/Size/Grade/Variety covered under licence :
Crosslinked polyethylene insulated PVC sheathed cables: Part 1 For working voltage upto and includin g 1 100 V, sheathed, armoured/unarmoured Al/Cu conductor, single core/multiple core, outer sheath ST-2 (excluding cable for improved fire performance)

2. The licence is being granted with the explicit condition that you will mark entire/substantial production which conforms to the Indian Standards referred above.

3.The number assigned to this licence is CM/L- 9641386 which has been made operative from 17/12/2007 and is valid upto 16/12/2008. The licence number should invariably be referred to in your future correspondence.

4.According to sub-regulation (2) of Regulation 6 of Bureau of Indian Standards (Certification) Regulation, 1988, the licence fee of Rs 1000/- and the marking fee of Rs. 29200.00as stipulated in the Second Schedule of this licence is payable by you with effect from 17/12/2007 for the period of validity of the licence.

Service tax @12.36% as applicable shall also be charged.

5.Minimum marking fee stipulated therein is payable by you regardless of the whether you actually mark your product or not with the Standard Mark. Our Receipt No. 9605126 dated 17/12/2007for Rs. 33934.00for the licence fee (Rs.1000/-) and the minimum marking enclosed/sent separately.

6. This advance minimum marking fee will be carried over to the next year on every renewal. The actual marking fee calculated on the unit rate on the production marked or the minimum marking fee, whichever is higher shall be payable by you at the time of renewal.

7. With a view to streamlining the reporting of quantity marked, calculation and collections of marking fee on the unit rate basis, fees will be calculated on the production marked during the first nine months of operation of the licence at the time of first renewal and the production marked during twelve months comprising the last three months of the previous operative year, at the time of second and subsequent renewals. In case the licence expires, the entire production marked till the expiry date shall be taken into account for calculating the marking fee payable.

8. The Scheme of Testing and Inspection DOC: STI/7098(PT 1)/3 MAY 2007 which has already been accepted by you vide your letter dated 13/12/2007will have to be implemented by your organization strictly and control function in your organization. The supervision of the operation of the Scheme shall be done by a person responsible for the quality control function in your organization. Kindly inform us the name and designation of the person who will be held responsible for the operation and maintenance of the Scheme. Any future change in this respect will have to be communicated by you to us and whenever this takes place.

9.We are enclosing a sheet giving the preferred dimensions of the Standard Mark to enable you to prepare the designs of the Standard Mark for marking the above product. Photographic reduction in any size is permissible. This will ensure the relative proportions of the different dimensions are maintained. Preferred dimensions may be used as far as possible. Kindly get the designs of the stencil/label/rating plate incorporating the Standard Mark approved by us. You will be permitted to commence marking the above mentioned product only after approval by this office.

10. On commencement of marking of your product for which you are licensed, you may advertise your product with Standard Mark in hoardings, slides and newspapers only during the validity of your licence. The use of Standard Mark on letterheads and publicity literature will be permitted only on receipt of your assurance that in the event of cancellation or lapsing of your licence, the letterheads etc. with the Standard Mark will be destroyed/obiliterated. The required assurance may please be submitted in the enclosed proforma.

11. You are requested to intimate us the actual date from which you intend to introduce the use of Standard Mark on your product. Our Inspecting Officer may be present in your factory at that time to assist you in adopting the Scheme of Testing and Inspection (STI) and in the maintenance of test records.

12. The Licence is being granted for you factory situated at : Village Burranwala, Barotiwala, Tehsil Kasuali Barotiwala Solan and the rights and privileges under the licence shall not be exercised by any other firm/company/factory,etc.This licence is not transferable.In the event of shifting of the manufacturing and testing equipment from the licenced premises to some other place ,use of Standard Mark shall be stopped till the new premises are inspected and found to be satisfactory by us in respect of manufacturing and testing facilities available there and address of the new premises is endorsed in the licence.

13. A copy/copies of test report(s) of the sample(s) drawn at the time of preliminary inspection of your factory is/are enclosed for your records.

14. You are requested to intimate to this office the address of your servicing unit where applicable and the name and designation of the person, his telephone and telex number who should be contacted in case of complaints. It is obligatory on your part as a licensee to keep this office informed about changes taking place from time to time in your declared list of servicing units.

15. The licence is under preparation and will be posted to you in due course.

16. You are requested to send us back the enclosed proforma No. CMD/PF615 duly filled in.

17. An instruction sheet containing Responsibilities of BIS Licensees is also enclosed for information / compliance.

18. It may please be noted that licence is being granted subject to the condition that if samples drawn by BIS during surveillance visit immediately after grant of licence or sample submitted by you for long duration tests fail to conform to the requirements of relevant Indian Standards in any requirement, the licence shall be liable to be cancelled.

Kindly acknowledge receipt of this letter.

Thanking you,

(Y B Gadekar)
Scientist E

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BUREAU OF INDIAN STANDARDS

Attachment to Licence No. CM/L- 9641487

CM/L-No	Name of the Licensee with the Factory Address	Name of the Product	Indian Standard No.
9641487	ATC Cables -B- 16 & 17 SECTOR - 5 , DSIIDC INDUSTRIAL AREA , Bawana : 110039	PVC insulated (heavy duty) electric cables: Part 1 For working voltages upto and including 1 100 V	IS 1554 : PART 1 : 1988

Endorsement No. 14 Dated 14-Dec-2021

Whereas, the licence was valid upto First January Two Thousand Twenty Two.

Now, consequent upon renewal, the validity of the licence given in schedule of the Licence Dated 31-DEC-2021 has been extended from First January Two Thousand Twenty Two to Thirty First December Two Thousand Twenty Two

Other terms and conditions of licence remain same.

Branch Head (Delhi Branch Office - II)

भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS
Parwanoo Branch Office

Address: H.No. 15, Sector-3,
Parwanoo, Dist.Solan(HP)-173220

Phones : 01792-235436 to 39
Fax: 01792-235435
E-Mail: nlbo@bis.org.in
web : http://www.bis.org.in

REGISTERED A/D

Our Ref :CM/L-9641487

Dated :18 Dec 2007

Subject: Grant of BIS Certification Marks Licence No. CM/L-9641487 as per IS 1554 : Part 1 : 1988

ATC Cables,
Village Burranwala, Barotiwala, Tehsil Kasuali,
Barotiwala
Distt : Solan
Himachal Pradesh

Dear Sir,

With reference to your application, we are pleased to inform you that it has been decided to grant you a licence to use the Standard Mark in respect of the following:

Product: **PVC insulated (heavy duty) electric cables: Part 1 For working voltages upto and including 1 100 V**

IS No : **IS 1554 : Part 1 : 1988**

Type/Size/Grade/Variety covered under licence :
PVC insulated (heavy duty) electric cable, sheathed/unsheathed, armoured/unarmoured, Al./cu conductor, single core/multicore, type of sheath – ST-1, insulation 'A' (except cable for improved fire performance)

2. The licence is being granted with the explicit condition that you will mark entire/substantial production which conforms to the Indian Standards referred above.

3.The number assigned to this licence is CM/L- 9641487 which has been made operative from 17/12/2007 and is valid upto 16/12/2008. The licence number should invariably be referred to in your future correspondence.

4.According to sub-regulation (2) of Regulation 6 of Bureau of Indian Standards (Certification) Regulation, 1988, the licence fee of Rs 1000/- and the marking fee of Rs. 29200.00as stipulated in the Second Schedule of this licence is payable by you with effect from 17/12/2007 for the period of validity of the licence.

Service tax @12.36% as applicable shall also be charged.

5.Minimum marking fee stipulated therein is payable by you regardless of the whether you actually mark your product or not with the Standard Mark. Our Receipt No. 9605128 dated 17/12/2007for Rs. 33934.00for the licence fee (Rs.1000/-) and the minimum marking enclosed/sent separately.

6. This advance minimum marking fee will be carried over to the next year on every renewal. The actual marking fee calculated on the unit rate on the production marked or the minimum marking fee, whichever is higher shall be payable by you at the time of renewal.

7. With a view to streamlining the reporting of quantity marked, calculation and collections of marking fee on the unit rate basis, fees will be calculated on the production marked during the first nine months of operation of the licence at the time of first renewal and the production marked during twelve months comprising the last three months of the previous operative year, at the time of second and subsequent renewals. In case the licence expires, the entire production marked till the expiry date shall be taken into account for calculating the marking fee payable.

8. The Scheme of Testing and Inspection DOC: STI 1554(PART 1) NOV 90 which has already been accepted by you vide your letter dated 13/12/2007will have to be implemented by your organization strictly and control function in your organization. The supervision of the operation of the Scheme shall be done by a person responsible for the quality control function in your organization. Kindly inform us the name and designation of the person who will be held responsible for the operation and maintenance of the Scheme. Any future change in this respect will have to be communicated by you to us and whenever this takes place.

9.We are enclosing a sheet giving the preferred dimensions of the Standard Mark to enable you to prepare the designs of the Standard Mark for marking the above product. Photographic reduction in any size is permissible. This will ensure the relative proportions of the different dimensions are maintained. Preferred dimensions may be used as far as possible. Kindly get the designs of the stencil/label/rating plate incorporating the Standard Mark approved by us. You will be permitted to commence marking the above mentioned product only after approval by this office.

10. On commencement of marking of your product for which you are licensed, you may advertise your product with Standard Mark in hoardings, slides and newspapers only during the validity of your licence. The use of Standard Mark on letterheads and publicity literature will be permitted only on receipt of your assurance that in the event of cancellation or lapsing of your licence, the letterheads etc. with the Standard Mark will be destroyed/obiliterated. The required assurance may please be submitted in the enclosed proforma.

11. You are requested to intimate us the actual date from which you intend to introduce the use of Standard Mark on your product. Our Inspecting Officer may be present in your factory at that time to assist you in adopting the Scheme of Testing and Inspection (STI) and in the maintenance of test records.

12. The Licence is being granted for you factory situated at : Village Burranwala, Barotiwala, Tehsil Kasuali Barotiwala Solan and the rights and privileges under the licence shall not be exercised by any other firm/company/factory,etc.This licence is not transferable.In the event of shifting of the manufacturing and testing equipment from the licenced premises to some other place ,use of Standard Mark shall be stopped till the new premises are inspected and found to be satisfactory by us in respect of manufacturing and testing facilities available there and address of the new premises is endorsed in the licence.

13. A copy/copies of test report(s) of the sample(s) drawn at the time of preliminary inspection of your factory is/are enclosed for your records.

14. You are requested to intimate to this office the address of your servicing unit where applicable and the name and designation of the person, his telephone and telex number who should be contacted in case of complaints. It is obligatory on your part as a licensee to keep this office informed about changes taking place from time to time in your declared list of servicing units.

15. The licence is under preparation and will be posted to you in due course.

16. You are requested to send us back the enclosed proforma No. CMD/PF615 duly filled in.

17. An instruction sheet containing Responsibilities of BIS Licensees is also enclosed for information / compliance.

18. It may please be noted that licence is being granted subject to the condition that if samples drawn by BIS during surveillance visit immediately after grant of licence or sample submitted by you for long duration tests fail to conform to the requirements of relevant Indian Standards in any requirement, the licence shall be liable to be cancelled.

Kindly acknowledge receipt of this letter.

Thanking you,

(Y B Gadekar)
Scientist E

भारतीय मानक ब्यूरो
Bureau of Indian Standards
The National Standards Body of India

For any other communication

Address:	Delhi Branch Office - II-Manak Bhavan, 9 Bahadur Shah Zafar Marg, Delhi, CENTRAL DELHI,DELHI,110002
Phone:	011-23230131, 23233375
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E-Mail:	dlbo2@bis.gov.in
Web:	www.bis.org.in, www.manakonline.in

BUREAU OF INDIAN STANDARDS

Attachment to Licence No. CM/L- 4874990

CM/L-No	Name of the Licensee with the Factory Address	Name of the Product	Indian Standard No.
4874990	ATC Cables -B-16,17 Sector -5 , DSIIDC Bawana Industrial Area , Bawana : 110039	Aerial Bunched Cables for working voltagess upto and including 1100 Volts	IS 14255 : 1995

Endorsement No. 8 Dated 20-Jul-2021

Whereas, the licence was valid upto Thirty First July Two Thousand Twenty One.

Now, consequent upon renewal, the validity of the licence given in schedule of the Licence Dated 31-JUL-2021 has been extended from Thirty First July Two Thousand Twenty One to Thirty First July Two Thousand Twenty Two

And, whereas the renewal was deferred till 20-Jul-2021 and licensee was not allowed to use or apply the Standard Mark from 09-Oct-2020 to 20-Jul-2021.

Other terms and conditions of licence remain same.

Branch Head (Delhi Branch Office - II)

भारतीय मानक ब्यू
BUREAU OF INDIAN STANDAR

Parwanoo Branch Office

Addres House # 15, Sector - 3,
s: Parwanoo, District Solan (HP) - 173220
Phones 01792-235436 to 39
:
Fax: 01792-235435
E-Mail: nlbo@bis.org.in
web : http://www.bis.org.in

REGISTERED A/D

Our Ref :CM/L-4874990

Dated :25 Jul 2014

Subject: Grant of BIS Certification Marks Licence No. CM/L-4874990 as per IS 14255 : 1995

ATC Cables,
Village Burranwala, Barotiwala, Tehsil Kasuali,
Distt : Solan
Himachal Pradesh
174103

Dear Sir,

With reference to your application, we are pleased to inform you that it has been decided to grant you a licence to use the Standard Mark in respect of the following:

Product: **Aerial Bunched Cables for working voltages upto and including 1100 Volts-specification**

IS No : **IS 14255 : 1995**

Type/Size/Grade/Variety covered under licence :

Aerial bunched cables for working voltages upto and including 1100 Volts.
Stranded circular compacted/non-compacted aluminium conductor, XLPE insulated for the following sizes : phase conductor single / three phase of size upto & including 50 sq.mm with or without

i) Neutral /Messenger aluminium alloy conductor, bare/insulated upto & including 35 sq .mm.
ii) Street lighting conductor of 16 sq.mm as per IS 14255:1995

2. The licence is being granted with the explicit condition that you will mark entire/substantial production which conforms to the Indian Standards referred above.

3. The number assigned to this licence is CM/L- 4874990 which has been made operative from 24/07/2014 and is valid upto 23/07/2015. The licence number should invariably be referred to in your future correspondence.

कंचेरला राजा, वैज्ञानिक 'ई' एवं प्रमुख
Kancherla Raja, Scientist 'E' & Head
भारतीय मानक ब्यूरो
Bureau of Indian Standards
पारवानू शाखा कार्यालय, Parwanoo Branch Office
15, सेक्टर 3, परवानू, जिला सोलन (हि.प्र.)
15, Sector-3, Parwanoo, Distt. Solan (H.P.)

4.According to sub-regulation (2) of Regulation 6 of Bureau of Indian Standards (Certification) Regulation, 1988, the licence fee of Rs 1000/- and the marking fee of Rs. 120202.00as stipulated in the Second Schedule of this licence is payable by you with effect from 24/07/2014 for the period of validity of the licence.

Service tax @ 12.36 % as applicable shall also be charged.

5.Minimum marking fee stipulated therein is payable by you regardless of the whether you actually mark your product or not with the Standard Mark. Our Receipt No. 9614089 dated 24/07/2014for Rs. 136182.00for the licence fee (Rs.1000/-) and the minimum marking enclosed/sent separately.

6. This advance minimum marking fee will be carried over to the next year on every renewal. The actual marking fee calculated on the unit rate on the production marked or the minimum marking fee, whichever is higher shall be payable by you at the time of renewal.

7. With a view to streamlining the reporting of quantity marked, calculation and collections of marking fee on the unit rate basis, fees will be calculated on the production marked during the first nine months of operation of the licence at the time of first renewal and the production marked during twelve months comprising the last three months of the previous operative year, at the time of second and subsequent renewals. In case the licence expires, the entire production marked till the expiry date shall be taken into account for calculating the marking fee payable.

8. The Scheme of Testing and Inspection DOC: STI/14255/1:FEB 2004 which has already been accepted by you vide your letter dated 09/07/2014will have to be implemented by your organization strictly and control function in your organization. The supervision of the operation of the Scheme shall be done by a person responsible for the quality control function in your organization. Kindly inform us the name and designation of the person who will be held responsible for the operation and maintenance of the Scheme. Any future change in this respect will have to be communicated by you to us and whenever this takes place.

9.We are enclosing a sheet giving the preferred dimensions of the Standard Mark to enable you to prepare the designs of the Standard Mark for marking the above product. Photographic reduction in any size is permissible. This will ensure the relative proportions of the different dimensions are maintained. Preferred dimensions may be used as far as possible. Kindly get the designs of the stencil/label/rating plate incorporating the Standard Mark approved by us. You will be permitted to commence marking the above mentioned product only after approval by this office.

10. On commencement of marking of your product for which you are licensed, you may advertise your product with Standard Mark in hoardings, slides and newspapers only during the validity of your licence. The use of Standard Mark on letterheads and publicity literature will be permitted only on receipt of your assurance that in the event of cancellation or lapsing of your licence, the letterheads etc. with the Standard Mark will be destroyed/obiliterated. The required assurance may please be submitted in the enclosed proforma.

11. You are requested to intimate us the actual date from which you intend to introduce the use of Standard Mark on your product. Our Inspecting Officer may be present in your factory at that time to assist you in adopting the Scheme of Testing and Inspection (STI) and in the maintenance of test records.

कंचेरला राजा, वैज्ञानिक 'ई' एवं प्रमुख
Kancherla Raja, Scientist 'E' & Head
भारतीय मानक ब्यूरो
Bureau of Indian Standards
परवाणू शाखा कार्यालय, Parwanoo Branch Office
15, सैक्टर 3, परवाणू, जिला सोलन (हि.प्र.)
15, Sector-3, Parwanoo, Distt. Solan (H.P.)

L- 487499

12. The Licence is being granted for you factory situated at : Village Burranwala, Barotiwala, Tehsil Kasuali Solan and the rights and privileges under the licence shall not be exercised by any other firm/company/factory,etc.This licence is not transferable.In the event of shifting of the manufacturing and testing equipment from the licenced premises to some other place ,use of Standard Mark shall be stopped till the new premises are inspected and found to be satisfactory by us in respect of manufacturing and testing facilities available there and address of the new premises is endorsed in the licence.

13. You are requested to intimate to this office the address of your servicing unit where applicable and the name and designation of the person, his telephone and telex number who should be contacted in case of complaints. It is obligatory on your part as a licensee to keep this office informed about changes taking place from time to time in your declared list of servicing units.

14. The licence is under preparation and will be posted to you in due course.

15. You are requested to send us back the enclosed proforma No. CMD/PF615 duly filled in.

16. An instruction sheet containing Responsibilities of BIS Licensee is also enclosed for information / compliance.

17. It may please be noted that the licence is being granted subject to the condition that if the verification samples (any sample including the long duration test samples drawn by BIS prior to grant of licence) drawn by BIS prior to grant of licence fail to conform to the requirements of relevant Indian Standards in any requirement, the licence fee deposited by you will not be refunded.

Kindly acknowledge receipt of this letter.

Thanking you.

(Kancherla Raja)
Scientist 'E' & Head

कंचेरला राजा, वैज्ञानिक 'ई' एवं प्रमुख
Kancherla Raja, Scientist 'E' & Head
भारतीय मानक ब्यूरो
Bureau of Indian Standards
परवाणू शाखा कार्यालय, Parwanoo Branch Office
15, सैक्टर 3, परवाणू, जिला सोलन (हि.प्र.)
15, Sector-3, Parwanoo, Distt. Solan (H.P.)

CiMEC Infralabs Private Limited

Laboratory : Plot. No. 179/13, Anand Industrial Estate, Mohan Nagar, Ghaziabad-201007
Ph : 0120-4909853, M. 9599383143 Fax : 0120-4156544 cimecinfralabs@gmail.com
Regd. Office : 4/1697, Plot No. 17, Shop No. 2, Mahavir Block, Bhola Nath Nagar, Shahdara, Delhi-32
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TC-5668

Format No: CIL/LAB-QF/7.8-01

ULR-TC566819000001599F

TEST REPORT

As Per IS 694-2010 with Amend. No.1, 2 & 3

Report No. : CIL/191016001
Issued To : M/s ATC Cables
B-16 & 17, Sector-5, DSIDC Industrial Area,
Bawana, Delhi - 110039

Date of Issue : 13.11.2019
Date of Receipt : 16.10.2019
Date of Completion : 12.11.2019

Particulars of Samples Submitted:

Nature of Sample : PVC Insulated, PVC Sheathed Flat Cable for working voltage up to and including 1100 Volts
Size/Grade/Class/Variety/ Type/Lot/Batch No. etc. : 2C x 2.5 mm^2 (1/1.80 mm) Circular Solid Class-1 Aluminium Conductor (H2 Grade) PVC Insulation Type-A PVC Sheath Type ST-1 Flat Cable Cat- 02 Cable Code: AYYOUSZ Brand/Make: ATC Sheath Colour: Black

Quantity : 20 Meter

TEST RESULTS

Sl.No.	TEST (Cl. Ref.)	TEST METHOD	SPECIFIED REQUIREMENTS			TEST RESULTS		
A.	GENERAL REQUIREMENTS: SECTION-1							
1	**Conductor, Cl.4**							
a)	Material (Cl.4.1)	IS 694-2010	Annealed, bare or tinned high conductivity copper wire / Aluminium wire complying with IS 8130.			Aluminium Conductor (Refer results below)		
b)	Class of conductor (Cl. 4.2)	IS 694-2010	Class 1/ Class 2/ Class 5			Class-1		
c)	Type of conductor (Cl. 4.2)	IS 694-2010	Circular Solid/ Circular Stranded/ Compacted Circular/ Shaped Stranded/ Flexible			Circular Solid		
d)	Nominal CSA, mm^2 (Cl. 4.2)	IS 694-2010	Nominal Cross Sectional Area, 2C x 2.5 mm^2			2C x 2.5 mm^2		
2	**Insulation (Cl.5)**							
a)	Material (Cl. 5.1)	IS 694-2010	PVC Compound conforming to the requirements IS 5831.			PVC (Refer results below)		
b)	Type (Cl.5.1)	IS 694-2010	Type A: For fixed installation Type C: For Heat Resistant Cable (HR) Type D: For Flexible Cords			Type-A		
c)	Application to the conductor (Cl. 5.2)	IS 694-2010	The insulation shall fit closely on the conductor and it shall be possible to remove it without damage to itself, to conductor or to tin coating.			Satisfactory		
d)	Thickness, mm (Cl. 5.3)	IS 10810(Pt-6)-1984	Nominal thickness (t_i)	0.70	Nom.	Core	Nom.	Min
						Red	0.77	0.62
			Smallest measured $\{t_i-(0.1+0.1t_i)\}$	0.53	Min.	Black	0.75	0.59
3	**Filler (Cl.6)**							
a)	Material (Cl. 6.1)	IS 694-2010	Un-vulcanized rubber or Plastic/ Natural or synthetic textile/ Paper /PVC.			PVC Sheath used as filler. No dummy filler used		
b)	Application (Cl.6.2)	IS 694-2010	The filler shall fill the space between the cores giving assembly a circular shape.					
			The filler shall not adhere to the cores.			Satisfactory		

Checked By

Partner

Authorised Signatory

NB:(1) This Test Report is ONLY FOR THE SAMPLE TESTED. Endorsement of product is neither inferred nor implied. (2) This report is not to be reproduced wholly or in part & forbidden to be used as evidence in the court of law & ought not to be used in any advertising media without special permission in writing. (3)Any discrepancies observed in the test report shall be brought to the notice of the Laboratory within one week. (4) Total Liability of CIMEC is limited to the invoices amount. (5) Visual Observation requirements are not accredited by NABL.

Report No. : CIL/191016001
Issued To : M/s ATC Cables

Date of Issue : 13.11.2019
IS 694-2010 (with Amend-1,2 & 3)

Sl.No.	TEST (Cl. Ref.)	TEST METHOD	SPECIFIED REQUIREMENTS			TEST RESULTS	
4	**Binder Tape (Cl.7)**	IS 694-2010	Plastic or proofed textile material.			N. A.	
5	**Sheath (Cl.8)**						
a)	Material (Cl.8.1)	IS 694-2010	PVC compound conforming to the requirements of IS 5831-1984.			PVC Sheath (Refer results below)	
b)	Type (Cl.8.1)	IS 694-2010	Type ST-1 : Fixed Installation Type ST-2 : HR PVC 85°C Type ST-3 : Flexible Cable			Type- ST-1	
c)	Application (Cl.8.2)	IS 694-2010	On core in case of single core cable. On assembly in case of other cable.			Satisfactory	
			The sheath shall not adhere to the cores.			Satisfactory	
d)	Thickness, mm (Cl.8.3)	IS 10810(Pt-6)-1984	Nominal thickness (t_s)	1.00	Nom.	1.06	
			Smallest measured {t_s-(0.1+0.15t_s)}	0.75	Min.	0.83	
e)	Sheath Colour (Cl.22.1.4)	IS 694-2010	Black or any other colour as agreed between the purchaser and the supplier			Black	
6	**Assembly of Cores (Cl. 22.1.3)**	IS 694-2010	The core shall be laid in the flat formation			Flat Formation	
7	**Overall Dimensions (Cl.9)**						
a)	Mean overall dimensions, mm	IS 10810(Pt-6)-1984	Circular Cable, diameter	---	Max.	N. A.	
			Flat/Parallel Twin cable	10.5 x 6.6	Max.	9.1 x 5.6	
b)	Ovality, % (Cl. 9.1)	IS 10810(Pt-6)-1984	Difference between Max. & Min. measured value of OD.	---	Max.	N. A.	
B.	**TESTS AS PER TABLE-1 (Cl. 10)**						
1	**Test on Conductor, IS 8130**						
a)	Annealing Test, % (Copper Conductor) (Cl.7.1.2)	IS 10810(Pt-1)-1984	Wire diameter, mm	Elongation, %		N. A.	
			Up to including 0.21	9.0	Min.		
			above 0.21 to 0.41	13.5			
			above 0.41 to 1.36	18.0			
			above 1.36 mm	22.5			
b)	Persulphate Test (For Tinned Cu only) (Cl.7.1.1)	IS 10810(Pt-4)-1984	Permissible mass of copper dissolved, g/m^2 :			N. A.	
			Dia.up to & including 0.41 mm	5	Max.		
			Dia. above 0.41 mm	3			
c)	Tensile Strength, N/mm^2 (Aluminium) (Cl.7.2.1)	IS 10810(Pt-2)-1984	Grade O	100 Max.		Red : 116 Black : 113	
			Grade H2	>100 to 150			
			Grade H4	>150			
d)	Wrapping Test (Aluminium(Cl.7.2.2)	IS 10810(Pt-3)-1984	The wire shall not break when tested as per IS 10810 (Pt-3)			Red : Passes Black : Passes	
e)	Resistance Test, Ohm/km (Cl.7.3)	IS 10810(Pt-5)-1984	Corrected to 20°C, Ohm/km	12.1	Max.	Red	11.84
						Back	11.91

ATC CABLES

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Report No. : CIL/191016001
Issued To : M/s ATC Cables

Date of Issue : 13.11.2019
IS 694-2010 (with Amend-1,2 & 3)

Sl.No.	TEST (Cl. Ref.)	TEST METHOD	SPECIFIED REQUIREMENTS		TEST RESULTS	
2	**Physical Test for Insulation Type-A (Ref. IS 5831:1984)**					
a)	Tensile Strength and Elongation at break (Without ageing):					
(i)	Tensile Strength, N/mm^2	IS 10810(Pt-7)-1984	12.5	Min.	Red	15.7
					Black	15.1
(ii)	Elongation at break, %	IS 10810(Pt-7)-1984	150	Min.	Red	235
					Black	252
b)	Tensile Strength and Elongation at break (After ageing in air Oven):					
(i)	Tensile Strength, N/mm^2	IS 10810(Pt-7)-1984	12.5	Min.	Red	16.9
					Black	16.6
(ii)	Elongation at break, %	IS 10810(Pt-7)-1984	150	Min.	Red	210
					Black	225
c)	Variation in Tensile Strength and Elongation at break (After ageing in air oven):					
(i)	Tensile Strength, Variation, %	IS 10810(Pt-11)-1984	± 20	Max.	Red	- 7.6
					Black	- 9.9
(ii)	Elongation, Variation, %	IS 10810(Pt-11)-1984	± 20	Max.	Red	+ 10.6
					Black	+ 10.7
d)	Loss of Mass Test, mg/cm^2	IS 10810(Pt-10)-1984	2	Max.	Red	1.08
					Black	0.96
e)	Shrinkage Test, %	IS 10810(Pt-12)-1984	4	Max.	Red	1.00
					Black	1.00
f)	Heat Shock Test	IS 10810(Pt-14)-1984	No sign of cracks or scales		Red	No cracks or scales
					Black	
g)	Hot Deformation Test, %	IS 10810(Pt-15)-1984	50	Max.	Red	29
					Black	27
h)	Thermal Stability Test, Minutes	IS 10810(Pt-60)-1988	80	Min.	Red	> 80
					Black	> 80
i)	Cold Bend Test (Cat-02) (≤12.5mm)	IS 10810(Pt-20)-1984	No sign of cracks or scales		Red	No cracks or scales
					Black	
j)	Cold Imapct Test (Cat-02) (>12.5mm)	IS 10810(Pt-21)-1984	No sign of cracks or scales		Red	N.A.
					Black	N.A.
3	**Physical Test for Sheath, ST-1 Type Ref. IS 5831-1984 (Removed from finished cable)**					
a)	Tensile Strength and Elongation at break (Without ageing):					
(i)	Tensile Strength, N/mm^2	IS 10810(Pt-7)-1984	12.5	Min.	15.4	
(ii)	Elongation at break, %	IS 10810(Pt-7)-1984	150	Min.	245	
b)	Tensile Strength and Elongation at break (After ageing in air Oven):					
(i)	Tensile Strength, N/mm^2	IS 10810(Pt-11)-1984	12.5	Min.	16.6	
(ii)	Elongation at break, %	IS 10810(Pt-11)-1984	150	Min.	218	
c)	Variation in Tensile Strength and Elongation at break (After ageing in air oven):					
(i)	Tensile Strength, Variation, %	IS 10810(Pt-11)-1984	± 20	Max.	- 7.8	
(ii)	Elongation, Variation, %	IS 10810(Pt-11)-1984	± 20	Max.	+ 11.0	

For ATC CABLES
Partner

Authorised Signatory

Report No. : CIL/191016001
Issued To : M/s ATC Cables

Date of Issue : 13.11.2019
IS 694-2010 (with Amend-1,2 & 3)

Sl.No.	TEST (Cl. Ref.)	TEST METHOD	SPECIFIED REQUIREMENTS			TEST RESULTS	
d)	Loss of Mass, mg/cm^2	IS 10810(Pt-10)-1984	2		Max.	1.09	
e)	Shrinkage Test, %	IS 10810(Pt-12)-1984	4		Max.	1.50	
f)	Heat Shock Test	IS 10810(Pt-14)-1984	No sign of cracks or scales			No cracks or scales	
g)	Hot Deformation Test, %	IS 10810(Pt-15)-1984	50		Max.	28	
h)	Thermal Stability Test, Minutes	IS 10810(Pt-60)-1988	40		Min.	> 40	
i)	Cold Bend Test (Cat-02) (≤12.5mm)	IS 10810(Pt-20)-1984	No sign of cracks or scales			No cracks or scales	
j)	Cold Impact Test (Cat-02) (>12.5mm)	IS 10810(Pt-21)-1984	No sign of cracks or scales			N. A	
4	**Insulation Resistance, IS 5831-1984**						
a)	Volume Resistivity, Ohm-cm	IS 10810(Pt-43)-1984	At room temperature 27°C	1x10^{13}	Min.	Red	9.7 x10^{13}
						Black	10.4 x10^{13}
			At max.rated temperature 70°C	1x10^{10}	Min.	Red	18.1 x10^{10}
						Black	21.3 x10^{10}
b)	Insulation Resistance Constant, MΩ-km	IS 10810(Pt-43)-1984	At room temperature 27°C	36.7	Min.	Red	354.2
						Black	379.6
			At max.rated temperature 70°C	0.037	Min.	Red	0.664
						Black	0.781
5	**High Voltage Test (Water Immersion, Temp. 60±3°C) (Cl.10.1)**						
a)	AC Voltage Test	IS 10810(Pt-45)-1984	The Core shall withstand ac 6 kV (rms) for 5 minutes.			Red	Withstood
						Black	Withstood
b)	DC Voltage Test	IS 10810(Pt-45)-1984	The Core shall withstand dc 1.2 kV for 240 hours.			Red	Withstood
						Black	Withstood
6	**High Voltage Test (at room Temperature) (Cl.10.2)**						
a)	AC Voltage Test	IS 10810(Pt-45)-1984	The Cable shall withstand ac 3.0 kV (rms) for 5 minutes for each connection.			Red	Withstood
						Black	Withstood
7	**Flammability Test (Cl.10.4)**	IS 10810(Pt-53)-1984	The period of burning, sec.	60	Max.	2	
			Unaffected portion, mm	50	Min.	342	

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Date of Issue : 13.11.2019
IS 694-2010 (with Amend-1,2 & 3)

Sl.No.	TEST (Cl. Ref.)	TEST METHOD	SPECIFIED REQUIREMENTS	TEST RESULTS	
8	**Additional Ageing Test (Cl. 10.9)-for outdoor use cable (For Cat. 02)**				
a)	High Voltage Test, (Water Immersion, Temp. 60±3°C)	IS 10810(Pt-45)-1984	Shall withstand ac 3.0 kV (rms) for 5 mins.	Red	Withstood
				Black	Withstood
b)	Cold Bend Test (For ≤12.5 mm)	IS 10810(Pt-20)-1984	No sign of cracks or scales	No cracks or scales	
c)	Cold Impact Test (For >12.5 mm)	IS 10810(Pt-21)-1984	No sign of cracks or scales	N. A.	
9	**Identification (Cl.11)**	IS 694-2010	i) Manufacturer's name or trade-mark shall be identified throughout the length of cable.	ATC Cables 2.5 Sq.mm. 1100 V IS:694	
			ii) The distance between any two consecutive printing indentation or embossing shall not be more than 1m.	Satisfactory	
10	**Durability (Cl.11.1)**	IS 694-2010	i) In case of printed marking, it shall be durable and compliance with the requirement as per Cl.11.1	Satisfactory	
			ii) The colour of core shall be easily identifiable and durable. The durability shall be checked by test as given in Cl. 11.1	Satisfactory	
11	**Legibility (Cl.11.2)**	IS 694-2010	All marking shall be clearly legible.	Satisfactory	
12	**Core Identification (Cl. 12)**	IS 694-2010	Each core shall be identified as per Table-2	Satisfactory	
13	**Cable Code (Cl. 13)**	IS 694-2010	The cable code shall be used for designating the cable as per Cl. 13.	AYYOUSZ	

Remarks : The sample conforms to IS 694-2010 with respect to above requirements.

Ravindra Singh Bora
Incharge (Electrical)

------End of the Report------

ABLES

Partner

BHAVYA LABORATORIES

MCF No.-1274, Gali No.-25,Sanjay Colony,
Sector : 23, Faridabad- 121005 (HARYANA)
Contact : 0129-2231248, Mobile : 9350000800
E-mail : bhavyalab@yahoo.com
Website : www.bhavyalab.com

T-3530

5.10F-0

TEST REPORT

IS 694-2010

Test Report No. & Date	BL/TR/01/102	11-04-2017

01.	Name & Address of the Customer	ATC Cables Village Bhurranwala, Barotiwala, Tehsil – Kasuli, Distt.- Solan (H.P.)-174103.
02.	Customer's Reference No. And date	NIL dated 24/03/2017
03.	Nature of Sample	Polyvinyl Chloride Insulated Unsheathed and Sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100V.
04.	Sample Description	2C x 6Sq.mm Solid Aluminium Conductor (Class – 1) PVC Insulated (Type A) & Flat weather Proof PVC Sheathed (ST1) Cable, Category – 02
05.	Brand Name	ATC
06.	Cable Code	AYYOUSZ
07.	Date of Receipt of Sample	24/03/2017
08.	Quantity	30 Meter
09.	JOB Number	BL/JOB/01/102
10.	Condition of sample on receipt	Good
11.	Start Date of Test	25/03/2017
12.	End Date of Test	10/04/2017
13.	Issue Date	12/04/2017
14.	Particulars of tests conducted	Type Test
15.	Number of pages	Seven

Tested By
Sudha Sharma
(Testing Engineer)

Approved By
Girish Sharma
(Quality Manager)

For ATC CABLES

Partner

BHAVYA LABORATORIES

MCF No.-1274, Gali No.-25,Sanjay Colony,
Sector : 23, Faridabad- 121005 (HARYANA)
Contact : 0129-2231248, Mobile : 9350000800
E-mail : bhavyalab@yahoo.com
Website : www.bhavyalab.com

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TEST REPORT

IS 694 : 201

Test Report No. & Date	BL/TR/01/102	11-04-2017

S. No.	Test name	Test Method	Specified Requirement	Result
1.	Test on Conductor			
1.1	No. of Wires in Conductor Cl. 6.1.1 of IS :8130-2013	Visual	The Conductor shall consist of Single wire of plain or tinned annealed copper or aluminium in accordance with Table 1.	1 (Solid) Aluminium Conductor
1.2	Tensile Strength, N/mm² (For Aluminum Conductor) Cl. 7.2.1 of IS 8130 : 2013	IS:10810 (Pt-2)1984	Grade / Strength, / Tensile N/mm² 0 — Upto & including 100 H2 — Above 100 & upto including 150 H4 — Above 150	H2 Grade 121 to 127 N/mm²
1.3	Wrapping Test (For Aluminum Conductor) Cl. 7.2.2 of IS 8130 : 2013	IS:10810(Pt-3)1984	The Wire shall not break	Satisfactory
1.4	Conductor Resistance Test Cl. 4.2 of IS 694 : 2010 Cl. 7.3 & Table 1 of IS 8130 : 2013			
	Red Core Black Core	IS:10810(Pt-5)1984	4.61 ohm/km, (max) at 20°C	4.598 ohm/km 4.596 ohm/km
2.	Test for Insulation			
2.1	Thickness of Insulation Cl. 22.1.2 & Table 10 of IS 694 : 2010			
(a)	Thickness	IS:10810(Pt-6)1984	Nominal / Minimum	Nominal / Minimum
	Red Core		0.8 mm / 0.62 mm	0.89 mm / 0.70 mm
	Black Core		0.8 mm / 0.62 mm	0.90 mm / 0.71 mm
2.2	Thickness of Outer Sheath	IS:10810(Pt-6)1984	Nominal – 1.1 mm Minimum – 0.84 mm	1.21 mm 0.92 mm
2.3	Overall Diameter Table 10 of IS 694 : 2010	IS:10810(Pt-6)1984	13.0 X 8.0	12.7 X 7.5

Tested By

Sudha Sharma
(Testing Engineer)

Approved By

Girish Sharma
(Quality Manager)

For ATC CABLES

Partner

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Sector : 23, Faridabad- 121005 (HARYANA)
Contact : 0129-2231248, Mobile : 9350000800
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Website : www.bhavyalab.com

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TEST REPORT

IS 694 : 201

Test Report No. & Date	BL/TR/01/102		11-04-2017
S. No. / Test name	Test Method	Specified Requirement	Result
3. PHYSICAL TEST ON PVC (TYPE A) INSULATION & SHEATH (ST1)			
3.1 Tensile Strength (Before Ageing) Cl. 15.1 c(1) & d(1) of IS 694 : 2010 Cl. 4.1, Table 1 & 2 of IS:5831-1984	IS:10810(Pt-7)1984		
Red Core		12.5N/mm² (min.)	15.51
Black Core			15.82
Outer Sheath		12.5N/mm² (min.)	16.12
3.2 Elongation at break (Before Ageing) Cl. 15.1 c(1) & d(1) of IS 694 : 2010 Cl. 4.1, Table 1 & 2 of IS:5831-1984	IS:10810(Pt-7)1984		
Red Core		150% (min.)	185
Black Core			175
Outer Sheath		150% (min.)	190
3.3 Loss of Mass Test Cl. 15.1 c(2) & d(2) of IS 694 : 2010 Cl. 4.1, Table 1 & 2 of IS:5831-1984			
Red Core	IS:10810(Pt-10)1984	2 mg/cm² (max.)	0.87 mg/cm²
Black Core		2 mg/cm² (max.)	0.91 mg/cm²
Outer Sheath		2 mg/cm² (max.)	0.95 mg/cm²
3.4 Tensile Strength (after Ageing) Cl. 15.1 c(3) & d(3) of IS 694 : 2010 Cl. 4.1, Table 1 & 2 of IS:5831-1984	IS:10810(Pt-11)1984		
Red Core		12.5N/mm² (min.)	16.32
Black Core			16.87
Outer Sheath		12.5N/mm² (min.)	17.32
3.5 Tensile Strength (Variation)	IS:10810(Pt-11)1984		
Red Core		±20% (Max.)	-5.22
Black Core			-6.64
Outer Sheath		±20% (Max.)	-7.44
3.6 Elongation at break (after Ageing) Cl. 15.1 c(3) & d(3) of IS 694 : 2010 Cl. 4.1, Table 1 & 2 of IS:5831-1984	IS:10810(Pt-11)1984		
Red Core		150% (min.)	175
Black Core			165
Outer Sheath		150% (min.)	175
3.7 Elongation at break (Variation)	IS:10810(Pt-11)1984		
Red Core		±20% (Max.)	5.41
Black Core			5.71
Outer Sheath		±20% (Max.)	7.89

Tested By

Sudha Sharma
(Testing Engineer).

BHAVYA LABORATORIES FARIDABAD

Approved By

Girish Sharma
(Quality Manager)

For ATC CABLES

Partner

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MCF No.-1274, Gali No.-25,Sanjay Colony,
Sector : 23, Faridabad- 121005 (HARYANA)
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5.10F-01

TEST REPORT

IS 694 : 2010

Test Report No. & Date	BL/TR/01/102	11-04-2017

S. No.	Test name	Test Method	Specified Requirement	Result
3.8	**Shrinkage Test** Cl. 15.1 c(4) & d(4) of IS 694 : 2010 Cl. 4.1, Table 1 & 2 of IS:5831-1984			
	Red Core	IS:10810(Pt-12)1984	4 % (max.)	1.5
	Black Core			1.5
	Outer Sheath		4 % (max.)	1.0
3.9	**Heat Shock Test** Cl. 15.1 c(5) & d(5) of IS 694 : 2010 Cl. 4.1, Table 1 & 2 of IS:5831-1984			
	Red Core	IS:10810(Pt-14)1984	Visual Examination- No Sign of cracks Or scales	No cracks
	Black Core			No cracks
	Outer Sheath			No cracks
3.10	**Hot Deformation Test** Cl. 15.1 c(6) & d(6) of IS 694 : 2010 Cl. 4.1, Table 1 & 2 of IS:5831-1984			
	Red Core	IS:10810(Pt-15)1984	Depth of Indentation - 50 % (max.)	29.6
	Black Core			31.2
	Outer Sheath			28.4
3.11	**Thermal Stability Test** Cl. 15.1 c(7) & d(7) of IS 694 : 2010 Cl. 4.1, Table 1 & 2 of IS:5831-1984			
	Red Core	IS:10810(Pt-60)1988	80 Minutes (min.)	>100
	Black Core			>100
	Outer Sheath		40 Minutes (min.)	>80
3.12	Cold Bend Test for Insulation Cl. 15.1 c(8) of IS 694 : 2010 Cl. 4.1, Table 1 & 2 of IS:5831-1984	IS:10810 (Pt-20)1984	No sign of cracks or scales	No Sign of Cracks
3.13	Cold Bend Test for Outer Sheath Cl. 15.1 d(12) of IS 694 : 2010 Cl. 4.1, Table 1 & 2 of IS:5831-1984	IS:10810 (Pt-20)1984	No sign of cracks or scales	No Sign of Cracks
4.	Flammability Test Cl. 15.1 c(10) & 10.4 of IS 694 : 2010 Cl.16.5 of IS 694 : 2010	IS:10810(Pt-53)1984		
	Period of Burning after removal of flame		60 Sec (Max.)	5
	Unaffected (uncharred) portion from the lower edge of the top clamp		50 mm (Min.)	352

Tested By
Sudha Sharma
(Testing Engineer)

BHAVYA LABORATORIES FARIDABAD

Approved By
Girish Sharma
(Quality Manager)

For ATC CABLES
Partner

BHAVYA LABORATORIES

MCF No.-1274, Gali No.-25,Sanjay Colony,
Sector : 23, Faridabad- 121005 (HARYANA)
Contact : 0129-2231248, Mobile : 9350000800
E-mail : bhavyalab@yahoo.com
Website : www.bhavyalab.com

T-3530

TEST REPORT

IS 694 : 2010

Test Report No. & Date	BL/TR/01/102		11-04-2017
S. No.	**Test name**	**Test Method**	**Specified Requirement**	**Result**
5	**Insulation Resistance Test Cl. 4.1 & Table 1 of IS:5831-1984**			
5.1	**Volume Resistivity at 27°C**	IS:10810(Pt-43)1984	1 X 10^{13}Ω-cm (min.)	
	Red Core			5.86 x 10^{13}
	Black Core			5.92 x 10^{13}
5.2	**Volume Resistivity at Maximum Rated Temp. at 70°C**	IS:10810(Pt-43)1984	1 X 10^{10}Ω-cm (min.)	
	Red Core			2.54 x 10^{11}
	Black Core			2.38 x 10^{11}
5.3	**Insulation Resistance Constant at 27°C**	IS:10810(Pt-43)1984	36.7 MΩ-Km (min.)	
	Red Core			215.06
	Black Core			217.26
5.4	**Insulation Resistance Constant at Maximum Rated Temp. at 70°C**	IS:10810(Pt-43)1984	0.037 MΩ-Km (min.)	
	Red Core			0.93
	Black Core			0.87
6.	**High Voltage Test (Water Immersion) Cl. 10.1, 15.1 e (1) of IS 694 : 2010**			
6.1	**AC Test Cl. 10.1 of IS 694 : 2010**	IS:10810(Pt-45)1984	The core shall be immersed in a water bath at 60±3°C after 24 hour a voltage of 3kV (rms) shall be applied between the conductors and water. This voltage shall be raised to 6kV (rms) within 10 sec and held constant at this values for 5 minutes.	
	Red Core			Withstood
	Black Core			Withstood
6.2	**DC Test Cl. 10.1 of IS 694 : 2010**	IS:10810(Pt-45)1984	The core should withstand a DC voltage of 1.2 kV kept in a water bath at 60±3°C for 240 hours continuously without breakdown.	
	Red Core			Withstood
	Black Core			Withstood
7.	**High Voltage Test at Room Temp. Cl. 15.1 e (2) & Cl.10.2 of IS:694 : 2010**	IS:10810(Pt-45)1984	The cable shall withstand an a.c. voltage of 3kV a dc voltage of 7.2 kV. The duration of test shall be 5 minute for each connection.	
	Red Core			Withstood
	Black Core			Withstood

Tested By

Sudha Sharma
(Testing Engineer)

BHAVYA LABORATORIES FARIDABAD

Approved By

Girish Sharma
(Quality Manager)

For ATC CABLES

Partner

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TEST REPORT

IS 694 : 201

Test Report No. & Date	BL/TR/01/102	11-04-2017

S. No.	Test name	Specified Requirement	Result
8.	Additional Ageing Test (For Outdoor Cable) Cl. 10.9 of IS 694 : 2010	A Sample, 5m long, taken from the conditioned sample as stated Cl.10.9.1 of IS 694:2010 shall be tested for high voltage test in accordance with 10.2 of IS 694 : 2010. The test has however, to be carried out on the finished cable and in water bath at 60±3°C.	Withstood
		The remaining Sample shall be submitted to cold bend or cold impact test as appropriate.	No Sign of Cracks
9.	Conductor Cl. 4 of IS 694 : 2010		
9.1	Conductor Cl. 4.1 & 22.1.1 of 694 : 2010	The conductor shall be composed of aluminium wires	Aluminium wire
		Aluminum conductor of sizes 1.5, 2.5, 4, 6 & 10 Aq.mm Sizes, it shall be either Solid (Class 1) or Stranded and all above sizes above 10 Sq.mm Shall be Stranded.	Class 1
10.	Insulation		
10.1	Insulation Cl. 5 & 22.1.2 of 694 : 2010	The insulation shall be of Polyvinyl Chloride compound of the type specified for each type of cable	Type A
		Type A – Cables for fixed Installation	
		Type C – Heat –resisting Cable (HR)	
		Type D – Flexible cables and cords	
10.2	Application to the Conductor Cl. 5.2 of IS 694 : 2010	The insulation shall be so applied that it fits closely on the conductor & it shall be possible to remove it without damage to the conductor.	Satisfactory
11.	Core Identification Cl. 12 & Table 2 of IS 694 : 2010	In case of cables for fixed wiring upto and including four cores shall be identified as per Table 2 of IS 694 : 2010	Satisfactory
		The flexible cables/cords having upto and including 25 cores shall be marked as per the colour scheme given in Table 2 of IS 694 : 2010.	
12.	Identification Cl. 11 of IS 694 : 2010	Manufacturers' Name or Trade-mark shall be printed, indented or embossed on the cable.	Printed
		The printing, indentation or embossing shall be done on the insulation in case of unsheathed cables and on the sheath in case of sheathed cable.	Printed
		The distance between any two consecutive printing, indentation or embossing shall not be more than 1 m.	Satisfactory

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(Quality Manager)

For ATC LABS
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5.10F-0

TEST REPORT

Test Report No. & Date	BL/TR/01/102	11-04-2017

S. No.	Test name	Specified Requirement	Result
13.	Durability Cl. 11.1 of IS 694 : 2010	In case of printed marking, it shall be durable and compliance with the requirements. The compliance with requirement shall be checked by trying to remove the marking of manufacturer's name or trade-mark and the colours of cores or numerals by rubbing lightly ten times with a piece of cotton wool or cloth soaked in water	Satisfactory
14.	Legibility Cl. 11.2 of IS 694 : 2010	All markings shall be clear and legible.	Satisfactory
		The colours of the identification threads shall be easy to recognize or easily made recognizable, if necessary, by cleaning with petrol or other suitable solvent.	Not Applicable
15.	Sheath Cl. 8 of IS 694 : 2010		
15.1	Sheath Cl. 8.1 of IS 694 : 2010	The Sheath shall be polyvinyl chloride compound of the type specified for each type of cable (Section 3)	
		Type ST1 – Cables for fixed Installations.	Type ST1
		Type ST2 – Cable sheathed with 85°C HRPVC Compound	
		Type ST3 – Flexible cables	
15.2	Application Cl. 8.2 of IS 694 : 2010	The sheath shall be extruded in a single layer	
		a) on the core, in case of single-core cables	Not Applicable
		b) on the assembly of cores and fillers or inner covering, if any, in case of other cables	Satisfactory
		c) The sheath shall not adhere to the cores	Satisfactory
		d) A separator, consisting of a film or tape, or talcum powder may be placed under the sheath.	Satisfactory
		e) sheath may penetrate into the spaces between the cores, thus forming a filling	Not Applicable
15.3	Color of Sheath Cl. 22.1.4 of IS 694 :2010	The outer sheath shall be black or any colour as agreed to between purchaser and the supplier	Black

Remarks: - The Sample conforms to various requirements specified in IS 694:2010 with latest amendments.

****** END OF REPORT******

Tested By
Sudha Sharma
(Testing Engineer)

BHAVYA LABORATORIES FARIDABAD

Approved By
Girish Sharma
(Quality Manager)

For ATC CABLES
Partner

CiMEC Infralabs Private Limited

Laboratory : Plot. No. 179/13, Anand Industrial Estate, Mohan Nagar, Ghaziabad-201007
Ph : 0120-4909853, M. 9599383143 Fax : 0120-4156544 cimecinfralabs@gmail.com
Regd. Office : 4/1697, Plot No. 17, Shop No. 2, Mahavir Block, Bhola Nath Nagar, Shahdara, Delhi-32
CIN: U73100DL2013PTC257132 | ISO 9001-2015 Certified

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ULR-TC566820000000565F

TEST REPORT

(As Per IS 1554 (Pt-1)-1988, Reaff. 2015)
(With Amendment No. 1, 2, 3, 4 & 5)

Report No. : CIL/200120053
Issued To : M/s. ATC CABLES
B-16 & 17, Sector-05, DSIIDC Industrial Area,
Bawana, Delhi-110039

Date of Issue : 14.03.2020
Date of Receipt : 20.01.2020
Date of Completion : 13.03.2020

Particulars of Samples Submitted:

Nature of Sample : PVC Insulated (Heavy Duty) Electric Cable for working voltage up to and including 1100 Volts
Size/Grade/Class/Variety/ Type/Lot/Batch No. etc. : 2Cx2.5 mm^2 (7/ 0.67 mm) Stranded Circular (Class-2) Annealed Tinned Copper Conductor Insulation PVC (Type-C) Sheath- PVC (Type ST-2) GI Steel Round Wire Armoured Cable Cat- 01 Cable Code: YWY Brand/Make: ATC Sheath Colour: Black
Quantity : 15 Meter Any other information: 5 meter for Annealing Test

TEST RESULTS

Sl. No.	TEST (Cl. Ref.)	TEST METHOD	SPECIFIED REQUIREMENTS				TEST RESULTS	
A.	**MATERIAL REQUIREMENTS: SECTION-2**							
1	Conductor (Cl.3)	IS 1554(Pt-1)-1988	The conductor shall be composed of plain copper or aluminum wires complying with IS : 8130-2013.				Annealed Tinned Copper Conductor (Refer results below)	
2	Insulation (Cl.4)	IS 1554(Pt-1)-1988	Type A (General Purpose)/ Type C (Heat Resisting) PVC Compound conforming to the requirements of IS 5831-1984.				PVC (Type-C) (Refer results below)	
3	Filler & Inner Sheath (Cl.5)	IS 1554(Pt-1)-1988	Unvulcanized rubber /Thermoplastic material / Proofed Tape				PVC	
4	Armouring (Cl.6)	IS 1554(Pt-1)-1988	GI round steel wire or Galvanized steel formed wire(strip) or Metallic/ non-magnetic wire/strip.				GI Steel Round Wire	
5	Outer Sheath (Cl.7)	IS 1554(Pt-1)-1988	Type ST-1(General Purpose)/ Type ST-2(Heat Resisting) PVC Compound conforming to the requirements of IS 5831-1984.				PVC (Type ST-2) (Refer results below)	
B.	**CONSTRUCTIONAL REQUIREMENTS: SECTION-3**							
1	**Conductor (Cl.8)**	IS 1554(Pt-1)-1988	(i)	Solid (Class-1)/Stranded (Class-2)			Stranded Circular (Class-2)	
			(ii)	Main Conductor Nominal CSA,mm^2			2Cx2.5 mm^2	
			(iii)	Reduced neutral conductor, CSA, mm^2			N. A.	
2	**Insulation (Cl.9)**							
a)	Thickness (Cl.9.2)	IS 1554(Pt-1)-1988, Table 2	(i)	Nominal thickness (ti), mm	0.90	Nom.	Red	0.98
							Black	0.96
			(ii)	Smallest measured value, (ti-(0.1+0.1ti), mm	0.71	Min.	Red	0.85
							Black	0.84
b)	Application of Insulation (Cl.9.4)	IS 1554(Pt-1)-1988	The insulation shall fit closely on the conductor and it shall be possible to remove it without damage to the conductor.				Satisfactory	
3	Core Identification (Cl.10)	IS 1554(Pt-1)-1988	Cores shall be identified by different coloring of PVC insulation.				Red & Black	
4	Laying up of Cores (Cl.11)	IS 1554(Pt-1)-1988	As per Table-3 of IS 1554(Pt-1)-1988				Satisfactory	

Checked By

CiMEC Infralabs Pvt. Ltd. Mohan Nagar, Ghaziabad

Authorised Signatory

Report No. : CIL/200120053
Issued To : M/s. ATC CABLES

Date of Issue : 14.03.2020
IS 1554 (Pt-1)-1988, Reaff. 2015)

Sl.No.	TEST (Cl. Ref.)	TEST METHOD	SPECIFIED REQUIREMENTS				TEST RESULTS	
5	**Inner Sheath (Cl.12)**							
a)	Application (Cl.12.1 & 12.2)	IS 1554(Pt-1)-1988	(i)	Over laid up cores by extrusion/ wrapping.			Satisfactory	
			(ii)	The sheath shall fit closely on the laid-up cores and it shall be possible to remove it without damage to the insulation.			Satisfactory	
b)	Thickness (Cl.12.3)	IS 1554(Pt-1)-1988, Table-4	Thickness, mm		0.30	Min.	0.43	
6	**Armouring (Cl.13)**							
a)	Application (Cl.13.1)	IS 1554(Pt-1)-1988	(i)	Over the insulation in case single core/ Over inner sheath in case twin or multiple core.			Satisfactory	
			(ii)	The direction of lay shall be left hand. For double outer layer in reverse direction.			Satisfactory	
			(iii)	The armour shall be applied so closely as possible with a coverage of not less than 90%.			>90 %	
b)	Type of Armour (Cl. 13.2)	IS 1554(Pt-1)-1988	Galvanized steel round wire/ Formed wire (strip)/ or non-megnatic/strip.				GI Steel Round Wire	
c)	Dimensions, mm (Cl.13.3)	IS 1554(Pt-1)-1988	(i)	Round wire diameter, mm	1.40	± 0.04	1.38	
			(ii)	Strip dimensions, mm	----		N. A.	
d)	Joints (Cl. 13.4)	IS 1554(Pt-1)-1988	At least 300 mm from the nearest joint in any other wire/strip.				Satisfactory	
e)	Resistance, Ohm/km (Cl.13.5)	IS 1554(Pt-1)-1988	If specified by the purchaser: dc Resistance Corrected at 20°C:		---	Max.	Not specified	
			In case cable for use in mines: Max. 33 % of conductor resistance				N. A.	
7	**Outer Sheath (Cl. 14)**							
a)	Application (Cl.14.1)	IS 1554(Pt-1)-1988	Unarmoured single core cable		Over Insulation		N. A.	
			Unarmoured multi core cable		Over Inner sheath		N. A.	
			Armoured Cable		Over armouring		Satisfactory	
b)	Colour (Cl.14.3)	IS 1554(Pt-1)-1988	Black Unless any other colour is specifed				Black	
c)	Thickness of Outer Sheath (Cl.14.4)	IS 1554(Pt-1)-1988, Table 7	Unarmoured Cable, mm		----	Nom.	N. A.	
					---	Min.	N. A.	
			Armoured Cable, mm		1.24	Min.	1.30	
C.	**TESTS: SECTION-4 (Type Tests, Cl. 15.1)**							
1	**Tests on Conductor (Ref. IS 8130-2013)**							
a)	Annealing Test (For Copper) (Cl.7.1.2)	IS 10810(Pt-1)-1984	Wire Diameter, mm		Elongation, %		28.8	
			Up to & including 0.21		9.0	Min		
			Above 0.21 to 0.41		13.5			
			above 0.41 to 1.36		18.0			
			Above 1.36		22.5			
b)	Persulphate Test (For Tinned Cu only) (Cl.7.1.1)	IS 10810(Pt-4)-1984	Permissible mass of copper dissolved, g/m^2 :				2.1	
			Dia.up to & including 0.41 mm		5	Max.		
			Dia. above 0.41 mm		3			
c)	Tensile Strength N/mm^2 (Al.) (Cl.7.2.1)	IS 10810(Pt-2)-1984	Grade O		100 Max.		N. A.	
			Grade H2		>100 to 150			
			Grade H4		>150			
d)	Wrapping Test (Aluminium)(Cl.7.2.2)	IS 10810(Pt-3)-1984	The criteria for passing is that the wire shall not break.				N. A.	
e)	Resistance Test (Cl.7.3)	IS 10810(Pt-5)-1984	Corrected to 20°C, Ohm/km		7.56	Max.	Red	7.15
							Black	7.18

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Report No. : CIL/200120053
Issued To : M/s. ATC CABLES

Date of Issue : 14.03.2020
IS 1554 (Pt-1)-1988, Reaff. 2015)

Sl.No.	TEST (Cl. Ref.)	TEST METHOD	SPECIFIED REQUIREMENTS	TEST RESULTS
2	**Test on armouring (Cl. 13.6)**			
a)	Tensile Strength, N/mm^2	IS 10810(Pt-37)-1984	250 to 580	360 to 372
b)	Elongation, %	IS 10810(Pt-37)-1984	6 Min.	9 to 11
c)	Torsion Test (Wire)	IS 10810(Pt-38)-1984	Shall pass the test as per IS 3975-1999	Passes
d)	Winding test (Strip)	IS 10810(Pt-39)-1984	The zinc coating shall not show any cracks and shall not flake off on rubbing by the bare finger.	N. A.
e)	Uniformity of Zinc Coating (Dip Test)	IS 10810(Pt-40)-1984	There shall be no Red Deposit of copper on the specimen — No. of dip 2	No Red deposit of Copper
f)	Mass of Zinc Coating	IS 10810(Pt-41)-1984	104.5 g/m^2 Min.	119
g)	Resistivity, ohm-cm	IS 10810(Pt-42)-1984	at 20° C 14.5 x 10^{-6} ohm-cm Max.	13.9 x10^{-6}
3	**Physical Test for Insulation and Sheath, Ref. IS 5831-1984**			
a)	Tensile Strength and Elongation at break (Without ageing):			
(i)	Tensile Strength, N/mm^2	IS 10810(Pt-7)-1984	Insulation : 12.5 Min.	Red 15.3; Black 15.5
			Sheath : 12.5 Min.	15.5
(ii)	Elongation at break, %	IS 10810(Pt-7)-1984	Insulation : 125 Min.	Red 254; Black 258
			Sheath : 150 Min.	252
b)	Tensile Strength and Elongation at break (After ageing in air Oven):			
(i)	Tensile Strength, N/mm^2	IS 10810(Pt-7)-1984	Insulation : 12.5 Min.	Red 16.8; Black 17.1
			Sheath : 12.5 Min.	17.4
(ii)	Elongation at break, %	IS 10810(Pt-7)-1984	Insulation : 125 Min.	Red 224; Black 225
			Sheath : 150 Min.	222
c)	Variation in Tensile Strength and Elongation at break (After ageing in air oven):			
(i)	Tensile Strength, Variation, %	IS 10810(Pt-11)-1984	Insulation : ± 25 Max.	Red - 9.8; Black - 10.3
			Sheath : ± 25 Max.	- 12.3
(ii)	Elongation, Variation,%	IS 10810(Pt-11)-1984	Insulation : ± 35 Max.	Red + 11.8; Black + 12.8
			Sheath : ± 25 Max.	+ 11.9

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Report No. : CIL/200120053
Issued To : M/s. ATC CABLES

Date of Issue : 14.03.2020
IS 1554 (Pt-1)-1988, Reaff. 2015)

Sl.No.	TEST (Cl. Ref.)	TEST METHOD	SPECIFIED REQUIREMENTS			TEST RESULTS	
d)	Shrinkage Test, %	IS 10810(Pt-12)-1984	Insulation :	4	Max.	Red	2.00
						Black	1.75
			Sheath :	4	Max.		2.00
e)	Hot Deformation Test, %	IS 10810(Pt-15)-1984	Insulation :	50	Max.	Red	32
						Black	31
			Sheath :	50	Max.		28
f)	Loss of Mass in air oven, mg/cm^2	IS 10810(Pt-10)-1984	Insulation :	----	Max.	Red	N. A.
						Black	N. A.
			Sheath :	2	Max.		1.02
g)	Heat Shock Test	IS 10810(Pt-14)-1984	Insulation : No sign of cracks or scales			Red	No cracks or scales
						Black	
			Sheath : No sign of cracks or scales			No cracks or scales	
h)	Thermal Stability Test, minutes	IS 5831-1984 (Appendix-B)	Insulation :	100	Min.	Red	> 100
						Black	> 100
			Sheath :	80	Min.		> 80
4	**Insulation Resistance Test, Ref. IS 5831-1984**						
a)	Volume Resistivity, Ohm-cm	IS 10810(Pt-43)-1984	At room temperature (27^{0}C)	$1x10^{13}$	Min.	Red	$3.8 x10^{13}$
						Black	$3.6 x10^{13}$
			At max. rated temperature (85^{0}C)	$1x10^{10}$	Min.	Red	$11.9 x10^{10}$
						Black	$11.7 x10^{10}$
b)	Insulation Resistance Constant, M Ohm-km	IS 10810(Pt-43)-1984	At room temperature (27^{0}C)	36.7	Min.	Red	139.5
						Black	132.1
			At max. rated temperature (85^{0}C)	0.037	Min.	Red	0.440
						Black	0.433
5	**High Voltage Test (at room Temperature) (Cl.16.2)**						
a)	AC Test	IS 10810(Pt-45)-1984	The cable shall withstand ac voltage of 3.0 kV (rms) for 5 minutes .			Red	Withstood
						Black	Withstood
6	**High Voltage Test (Water Immersion) (Cl.16.3)**						
a)	AC Test	IS 10810(Pt-45)-1984	The cable shall withstand ac voltage of 6.0 kV (rms) for 5 minutes .			Red	Withstood
						Black	Withstood
b)	DC Test	IS 10810(Pt-45)-1984	The cable shall withstand dc voltage of 1.2 kV for 240 hours.			Red	Withstood
						Black	Withstood
7	**Flammability Test (Cl.16.3)**	IS 10810(Pt-53)-1984	The period of burning, sec.	60	Max.	4	
			Unaffected portion, mm	50	Min.	365	
8	**OPTIONAL TEST: (Cl.15.4)**						
a)	Cold Bend Test (≤12.5 mm dia.)	IS 10810(Pt-20)-1984	There shall be no cracks or scales.			Red	No cracks or scales
						Black	
b)	Cold Impact Test (>12.5 mm dia) (Sheath)	IS 10810(Pt-21)-1984	There shall be no cracks or scales.			No cracks or scales	

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Report No. : CIL/200120053
Issued To : M/s. ATC CABLES

Date of Issue : 14.03.2020
IS 1554 (Pt-1)-1988, Reaff. 2015)

D.	IDENTIFICATION, PACKING, MARKING: SECTION-5			
1	**Identification (Cl.17)**			
a)	Manufacturer's Identification(Cl.17.1)	IS 1554(Pt-1)-1988	Manufacturer's name or trade-mark shall be identified throughout the length of cable.	ATC Electric Cable 1100 V 2Cx2.5 Sq.mm. YWY IS:1554(Part-1) 1988
b)	Legend (Cl.17.2)	IS 1554(Pt-1)-1988	Appropriate legend on the outer sheath throughout of the cable length.	Satisfactory
c)	Cable Code (Cl.17.3)	IS 1554(Pt-1)-1988	The cable code shall be used for designating the cable.	YWY

Remarks: The sample conforms to IS: 1554(Pt-1)-1988 with respect to above requirements.

CIMEC Infralabs ... Mohan Nagar Ghaziabad

(V. S Rana, Director)
Authorised Signatory

------End of the Report------

CiMEC Infralabs Private Limited

Laboratory : Plot. No. 179/13, Anand Industrial Estate, Mohan Nagar, Ghaziabad-201007
Ph : 0120-4909853, M. 9599383143 Fax : 0120-4156544 cimecinfralabs@gmail.com
Regd. Office : 4/1697, Plot No. 17, Shop No. 2, Mahavir Block, Bhola Nath Nagar, Shahdara, Delhi-32
CIN: U73100DL2013PTC257132 | ISO 9001-2015 Certified

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TC-5668

Format No: CIL/LAB-QF/7.8-01

ULR-TC566820000000615F

TEST REPORT

(As Per IS 1554 (Pt-1)-1988, Reaff. 2015)
(With Amendment No. 1, 2, 3, 4 & 5)

Report No. : CIL/200120056
Issued To : M/s. ATC CABLES
B-16 & 17, Sector-05, DSIIDC Industrial Area,
Bawana, Delhi-110039

Date of Issue : 19.03.2020
Date of Receipt : 20.01.2020
Date of Completion : 18.03.2020

Particulars of Samples Submitted:

Nature of Sample : PVC Insulated (Heavy Duty) Electric Cable for working voltage up to and including 1100 Volts

Size/Grade/Class/Variety /Type/Lot/Batch No. etc. : 12Cx2.5 mm^2 (7/0.67 mm) Stranded Circular (Class-2) Annealed Tinned Copper Conductor Insulation PVC (Type-C) Sheath- PVC (ST-2) G.I. Steel Formed Wire Armoured Cable Cat- 01 Cable Code: YFY Brand /Make: ATC Sheath Colour: Black

Quantity : 15 Meter Any other information: 5 meter plain wire for Annealing Test

TEST RESULTS

Sl.No.	TEST (Cl. Ref.)	TEST METHOD	SPECIFIED REQUIREMENTS	TEST RESULTS
A.	**MATERIAL REQUIREMENTS: SECTION-2**			
1	Conductor (Cl.3)	IS 1554(Pt-1)-1988	The conductor shall be composed of plain copper or aluminum wires complying with IS : 8130-2013	Annealed Tinned Copper Conductor (Refer results below)
2	Insulation (Cl.4)	IS 1554(Pt-1)-1988	Type A (General Purpose)/ Type C (Heat Resisting) PVC Compound conforming to the requirements of IS 5831-1984.	PVC (Type-C) (Refer results below)
3	Filler & Inner Sheath (Cl.5)	IS 1554(Pt-1)-1988	Unvulcanized rubber /Thermoplastic material / Proofed Tape.	PVC
4	Armouring (Cl.6)	IS 1554(Pt-1)-1988	GI round steel wire or Galvanized steel formed wire(strip) or Metallic/ non-magnetic wire/strip.	G.I. Steel Formed Wire
5	Outer Sheath (Cl.7)	IS 1554(Pt-1)-1988	Type ST-1 (General Purpose)/ Type ST-2 (Heat Resisting) PVC Compound conforming to the requirements of IS 5831-1984.	PVC (ST-2) (Refer results below)
B.	**CONSTRUCTIONAL REQUIREMENTS: SECTION-3**			
1	**Conductor (Cl.8)**	IS 1554(Pt-1)-1988	(i) Solid (Class-1)/Stranded (Class-2)	Stranded Circular (Class-2)
			(ii) Nominal Cross Sectional Area, mm^2	12Cx2.5 mm^2
			(iii) Reduced neutral conductor, CSA, mm^2	N. A.
2	**Insulation (Cl.9)**			
a)	Thickness (Cl.9.2)	IS10810(Pt-6)-1984	(i) Nominal thickness (ti), mm — 0.90 Nom.	All Grey Cores (1 to 12): 0.94 to 0.96
			(ii) Smallest measured value, (ti-(0.1+0.1ti), mm — 0.71 Min.	All Grey Cores (1 to 12): 0.78 to 0.82
b)	Application of Insulation (Cl.9.4)	IS 1554(Pt-1)-1988	The insulation shall fit closely on the conductor and it shall be possible to remove it without damage to the conductor.	Satisfactory
3	**Core Identification (Cl.10)**	IS 1554(Pt-1)-1988	Cores shall be identified by different coloring of PVC insulation.	Grey-1 to 12
4	**Laying up of Cores (Cl.11)**	IS 1554(Pt-1)-1988	As per Table-3 of IS 1554(Pt-1)-1988	Satisfactory

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CiMEC Infralabs Pvt. Ltd. Mohan Nagar Ghaziabad

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Report No. : CIL/200120056
Issued To : M/s. ATC CABLES

Date of Issue : 19.03.2020
IS 1554 (Pt-1)-1988, Reaff. 2015)

Sl.No.	TEST (Cl. Ref.)	TEST METHOD	SPECIFIED REQUIREMENTS				TEST RESULTS	
5	**Inner Sheath (Cl.12)**							
a)	Application (Cl.12.1 & 12.2)	IS 1554(Pt-1)-1988	(i)	Over laid up cores by extrusion/ wrapping.			Extruded	
			(ii)	The sheath shall fit closely on the laid-up cores and it shall be possible.to remove it without damage to the insulation.			Satisfactory	
b)	Thickness (Cl.12.3)	IS10810(Pt-6)-1984	Thickness, mm		0.3	Min.	0.46	
6	**Armouring (Cl.13)**							
a)	Application (Cl.13.1)	IS 1554(Pt-1)-1988	(i)	Over the insulation in case single core/ Over inner sheath in case twin or multiple core.			Satisfactory	
			(ii)	The direction of lay shall be left hand. For double outer layer in reverse direction.			Satisfactory	
			(iii)	The armour shall be applied so closely as possible with a coverage of not less than 90%.			>90 %	
b)	Type of Armour (Cl. 13.2)	IS 1554(Pt-1)-1988	Galvanized steel round wire/ Formed wire (strip)/ or non-megnatic/strip.				G.I. Steel Formed Wire	
c)	Dimensions, mm (Cl.13.3)	IS 1554(Pt-1)-1988	(i)	Round wire diameter, mm	---	± ---	N. A.	
			(ii)	Strip dimensions, mm	4.0 x 0.80	± 10%	3.98 x 0.79	
d)	Joints (Cl. 13.4)	IS 1554(Pt-1)-1988	At least 300 mm from the nearest joint in any other wire/strip.				Satisfactory	
e)	Resistance, Ohm/km (Cl.13.5)	IS 1554(Pt-1)-1988	If specified by the purchase: dc Resistance Corrected at 20°C:		---	Max.	Not specified	
			In case cable for use in mines: Max. 33 % of conductor resistance				N. A.	
7	**Outer Sheath (Cl. 14)**							
a)	Application (Cl.14.1)	IS 1554(Pt-1)-1988	Unarmoured single core cable		Over Insulation		N. A.	
			Unarmoured multi core cable		Over Inner sheath		N. A.	
			Armoured Cable		Over armouring		Satisfactory	
b)	Colour (Cl.14.3)	IS 1554(Pt-1)-1988	Black Unless any other colour is specifed				Black	
c)	Thickness of Outer Sheath (Cl.14.4)	IS10810(Pt-6)-1984	Unarmoured Cable, mm		---	Nom.	N. A.	
					---	Min.	N. A.	
			Armoured Cable, mm		1.40	Min.	1.61	
C.	**TESTS: SECTION-4 (Type Tests, Cl. 15.1)**							
1	**Tests on Conductor (Ref. IS 8130-2013)**							
a)	Annealing Test, % (Copper Conductor) (Cl.7.1.2)	IS 10810(Pt-1)-1984	Wire Diameter, mm		Elongation, %		28.6	
			Up to & including 0.21		9.0	Min		
			Above 0.21 to 0.41		13.5			
			above 0.41 to 1.36		18.0			
			Above 1.36		22.5			
b)	Persulphate Test (For Tinned Cu only) (Cl.7.1.1)	IS 10810(Pt-4)-1984	Permissible mass of copper dissolved, g/m^2 :				1.9	
			Dia.up to & including 0.41 mm		5	Max.		
			Dia. above 0.41 mm		3			
c)	Tensile Strength, N/mm^2 (Aluminium) (Cl.7.2.1)	IS 10810(Pt-2)-1984	Grade O		100 Max.		N. A.	
			Grade H2		>100 to 150			
			Grade H4		>150			
d)	Wrapping Test (Aluminium)(Cl.7.2.2)	IS 10810(Pt-3)-1984	The criteria for passing is that the wire shall not break.				N. A.	
e)	Resistance Test, Ohm/km (Cl. 7.3)	IS 10810(Pt-5)-1984	Corrected to 20°C, Ohm/km		7.56	Max.	All Grey Cores (1 to 12)	7.19 to 7.25

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IS 1554 (Pt-1)-1988, Reaff. 2015)

Sl.No.	TEST (Cl. Ref.)	TEST METHOD	SPECIFIED REQUIREMENTS		TEST RESULTS	
2	**Test on armouring (Cl. 13.6)**					
a)	Tensile Strength, N/mm^2	IS 10810(Pt-37)-1984	250 to 580		356 to 370	
b)	Elongation, %	IS 10810(Pt-37)-1984	6 Min.		10 to 12	
c)	Torsion Test (Wire)	IS 10810(Pt-38)-1984	Shall pass the test as per IS 3975-1999		N. A.	
d)	Winding test (Strip)	IS 10810(Pt-39)-1984	The zinc coating shall not show any cracks and shall not flake off on rubbing by the bare finger.		Passes	
e)	Uniformity of Zinc Coating (Dip Test)	IS 10810(Pt-40)-1984	There shall be no Red Deposit of copper on the specimen	No. of Dip 2	No Red deposit of Copper	
f)	Mass of Zinc Coating, g/m^2	IS 10810(Pt-41)-1984	104.5 g/m^2 Min.		121	
g)	Resistivity, ohm-cm	IS 10810(Pt-42)-1984	at 20° C 14.5 x 10^{-6} ohm-cm Max.		13.9 x10^{-6}	
3	**Physical Test for Insulation and Sheath, Ref. IS 5831-1984**					
a)	Tensile Strength and Elongation at break (Without ageing):					
(i)	Tensile Strength, N/mm^2	IS 10810(Pt-7)-1984	Insulation : 12.5 Min.	All Grey Cores (1 to 12)	15.1 to 15.8	
			Sheath : 12.5 Min.		15.4	
(ii)	Elongation at break, %	IS 10810(Pt-7)-1984	Insulation : 125 Min.	All Grey Cores (1 to 12)	245 to 262	
			Sheath : 150 Min.		256	
b)	Tensile Strength and Elongation at break (After ageing in air Oven):					
(i)	Tensile Strength, N/mm^2	IS 10810(Pt-7)-1984	Insulation : 12.5 Min.	All Grey Cores (1 to 12)	16.6 to 17.8	
			Sheath : 12.5 Min.		17.2	
(ii)	Elongation at break, %	IS 10810(Pt-7)-1984	Insulation : 125 Min.	All Grey Cores (1 to 12)	216 to 225	
			Sheath : 150 Min.		224	
c)	Variation in Tensile Strength and Elongation at break (After ageing in air oven):					
(i)	Tensile Strength, Variation, %	IS 10810(Pt-11)-1984	Insulation : ± 25 Max.	All Grey Cores (1 to 12)	-9.9 to -12.6	
			Sheath : ± 25 Max.		- 11.7	
(ii)	Elongation, Variation, %	IS 10810(Pt-11)-1984	Insulation : ± 35 Max.	All Grey Cores (1 to 12)	11.8 to +14.1	
			Sheath : ± 25 Max.		+ 12.5	

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IS 1554 (Pt-1)-1988, Reaff. 2015)

Sl.No.	TEST (Cl. Ref.)	TEST METHOD	SPECIFIED REQUIREMENTS			TEST RESULTS	
d)	Shrinkage Test, %	IS 10810(Pt-12)-1984	Insulation :	4	Max.	All Grey Cores (1 to 12)	1.50 to 2.25
			Sheath :	4	Max.		2.00
e)	Hot Deformation Test, %	IS 10810(Pt-15)-1984	Insulation :	50	Max.	All Grey Cores (1 to 12)	28 to 34
			Sheath :	50	Max.		36
f)	Loss of Mass in air oven, mg/cm^2	IS 10810(Pt-10)-1984	Insulation :	-----	Max.	All Grey Cores (1 to 12)	N. A.
			Sheath :	2	Max.		0.98
g)	Heat Shock Test	IS 10810(Pt-14)-1984	Insulation :	No sign of cracks or scales		All Grey Cores (1 to 12)	No cracks or scales
			Sheath :	No sign of cracks or scales			No cracks or scales
h)	Thermal Stability Test, minutes	IS 5831-1984 (Appendix-B)	Insulation :	100	Min.	All Grey Cores (1 to 12)	> 100
			Sheath :	80	Min.		> 80
4	**Insulation Resistance Test, Ref. IS 5831-1984**						
a)	Volume Resistivity, Ohm-cm	IS 10810(Pt-43)-1984	At room temperature (27^{0}C)	$1x10^{13}$	Min.	Grey-1	$6.1 x10^{13}$
						Grey-2	$6.4 x10^{13}$
						Grey-3	$5.9 x10^{13}$
						Grey-4	$6.2 x10^{13}$
						Grey-5	$6.3 x10^{13}$
			At max. rated temperature (85^{0}C)	$1x10^{10}$	Min.	Grey-1	$15.2 x10^{10}$
						Grey-2	$15.4 x10^{10}$
						Grey-3	$14.9 x10^{10}$
						Grey-4	$14.6 x10^{10}$
						Grey-5	$15.4 x10^{10}$
b)	Insulation Resistance Constant, M Ohm-km	IS 10810(Pt-43)-1984	At room temperature (27^{0}C)	36.7	Min.	Grey-1	223.9
						Grey-2	234.9
						Grey-3	216.5
						Grey-4	227.5
						Grey-5	231.2
			At max. rated temperature (85^{0}C)	0.037	Min.	Grey-1	0.562
						Grey-2	0.570
						Grey-3	0.551
						Grey-4	0.540
						Grey-5	0.570

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IS 1554 (Pt-1)-1988, Reaff. 2015)

Sl.No.	TEST (Cl. Ref.)	TEST METHOD	SPECIFIED REQUIREMENTS	TEST RESULTS	
5	**High Voltage Test (at room Temperature) (Cl.16.2)**				
a)	AC Test	IS 10810(Pt-45)-1984	The cable shall withstand ac voltage of 3.0 kV (rms) for 5 minutes for each connection.	Withstood	
6	**High Voltage Test (Water Immersion) (Cl.16.3)**				
a)	AC Test	IS 10810(Pt-45)-1984	The cable shall withstand ac voltage of 6.0 kV (rms) for 5 minutes .	All Grey Cores (1 to 12)	All Cores Withstood the Test
b)	DC Test	IS 10810(Pt-45)-1984	The cable shall withstand dc voltage of 1.2 kV for 240 hours.	All Grey Cores (1 to 12)	All Cores Withstood the Test
7	**Flammability Test (Cl.16.3)**	IS 10810(Pt-53)-1984	The period of burning, sec. 60 Max.	4	
			Unaffected portion, mm 50 Min.	344	
8	**OPTIONAL TEST: (Cl.15.4)**				
a)	Cold Bend Test (≤12.5 mm dia.) (Insulation)	IS 10810(Pt-20)-1984	There shall be no cracks or scales.	All Grey Cores (1 to 12)	No cracks or scales
b)	Cold Impact Test (>12.5 mm dia) (Sheath)	IS 10810(Pt-21)-1984	There shall be no cracks or scales.	No cracks or scales	
D.	**IDENTIFICATION, PACKING, MARKING: SECTION-5**				
1	**Identification (Cl.17)**				
a)	Manufacturer's Identification (Cl.17.1)	IS 1554(Pt-1)-1988	Manufacturer's name or trade-mark shall be identified throughout the length of cable.	ATC Electric 1100V 12Cx2.5 Sq.mm. YFY IS:1554(Part-1) 1988	
b)	Legend (Cl.17.2)	IS 1554(Pt-1)-1988	Appropriate legend on the outer sheath throughout of the cable length.	Satisfactory	
c)	Cable Code (Cl.17.3)	IS 1554(Pt-1)-1988	The cable code shall be used for designating the cable.	YFY	

Remarks : The sample conforms to IS: 1554(Pt-1)-1988 with respect to above requirements.

(V.S.Rana, Director)
Authorised Signatory

------End of the Report------

CiMEC Infralabs Private Limited

Laboratory : Plot. No. 179/13, Anand Industrial Estate, Mohan Nagar, Ghaziabad-201007
Ph : 0120-4909853, M. 9599383143, Fax : 0120-4156544, E-mail : cimecinfralabs@gmail.com
Regd. Office : 4/1697, Plot No. 17, Shop No. 2, Mahavir Block, Bhola Nath Nagar, Shahdara, Delhi-32
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TC-5668

Format No: CIL/LAB-QF/7.8-01

ULR-TC566820000000807F

TEST REPORT

AS PER IS: 14255-1995 (Reaff.2015, Amd. No. 1)

Report No.	:	CIL/200515002	**Date of Report**	:	20.06.2020
Issued to	:	M/s ATC Cables B-16-17, Sector-5, DSIDC Industrial Area, Bawana, Delhi-110039	**Date of Receipt**	:	15.05.2020
			Date of Completion	:	19.06.2020

PARTICULARS OF THE SAMPLE SUBMITTED:

Nature of the Sample : Aerial Bunched Cable for working voltage up to and including 1100 Volts as per IS 14255-1995

Size/Grade/Class etc. : 3Cx70 Sq. mm (19/2.17 mm) + 1Cx16 Sq.mm. (7/1.71 mm) (Strt. Light) + 1Cx 50 Sq.mm. (7/3.02 mm) (Msg.), Stranded Circular Compacted Aluminium Conductor (H2 Gr.), XLPE Insulated. Three Phase Conductors & Street Light Conductor are Twisted Around Stranded Insulated Aluminium Alloy Messenger wire of Size-50 mm^2
Brand/Make: ATC

Quantity : 15 meter + 5 Meter Each Plain Wire.

Test Results:

Sl. No.	Test	Test Method	Specified Requirements (As Per IS 14255-1995, Reaff. 2015)			Test Results	
1.	**Test on Phase Conductor: IS 8130-2013**						
a)	Tensile Strength, N/mm^2	IS 10810(Pt-2)-1984	Grade H2	100 to 150		140	
			Grade H4	>150			
b)	Wrapping Test	IS 10810(Pt-3)-1984	The wire shall not break.			Passes	
c)	Resistance Test, Ohm/km	IS 10810(Pt-5)-1984	Corrected at 20° C:	0.443	Max.	Phase-1	0.418
						Phase-2	0.421
						Phase-3	0.419
2.	**Test on Street Light Conductor: IS 8130-2013**						
a)	Tensile Strength, N/mm^2	IS 10810(Pt-2)-1984	Grade H2	100 to 150		128	
			Grade H4	>150			
b)	Wrapping Test	IS 10810(Pt-3)-1984	The wire shall not break.			Passes	
c)	Resistance Test, Ohm/km	IS 10810(Pt-5)-1984	Corrected at 20° C:	1.91	Max.	1.842	
3.	**Test on Messenger Conductor:**						
a)	Resistance Test, Ohm/km	IS 10810(Pt-5)-1984	DC Resistance at 20° C:	0.689	Max.	0.635	
b)	Breaking Load, kN	IS 10810(Pt-2)-1984	14.0 Min.			15.4	
c)	Elongation, %	Cl. 11.3	4 Min.			6.8	

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IS: 14255-1995 (Reaff. 2015)

Sl. No.	Test	Test Method	Specified Requirements (As Per IS 14255-1995, Reaff. 2015)			Test Results	
4.	**Physical Test on XLPE Insulation:**						
a)	Tensile Strength, N/mm^2	IS 10810(Pt-7)-1984	12.5 Min.			Phase-1	16.9
						Phase-2	17.6
						Phase-3	17.3
						Messenger	16.4
						Street Light	16.8
b)	Elongation at break, %	IS 10810(Pt-7)-1984	200 Min.			Phase-1	412
						Phase-2	420
						Phase-3	406
						Messenger	408
						Street Light	412
c)	Ageing in air Oven:						
	i) Tensile Strength Variation, %	IS 10810(Pt-11)-1984	± 25 Max			Phase-1	-12.4
						Phase-2	-11.6
						Phase-3	-10.9
						Messenger	-13.2
						Street Light	-11.8
	ii) Elongation Variation, %	IS 10810(Pt-11)-1984	± 25 Max			Phase-1	+13.4
						Phase-2	+12.9
						Phase-3	+13.2
						Messenger	+12.8
						Street Light	+11.8
d)	Hot Set Test, %	IS 10810(Pt-30)-1984	Elongation under Load	175	Max.	Phase-1	106
						Phase-2	109
						Phase-3	112
						Messenger	105
						Street Light	102
			Permanent Elongation	15	Max.	Phase-1	6.5
						Phase-2	5.7
						Phase-3	6.8
						Messenger	7.3
						Street Light	7.6
e)	Shrinkage Test, %	IS 10810(Pt-12)-1984	4 Max.			Phase-1	2.25
						Phase-2	2.00
						Phase-3	2.00
						Messenger	1.75
						Street Light	2.00
f)	Water Absorption, mg/cm^2	IS 10810(Pt-33)-1984	1 Max.			Phase-1	0.27
						Phase-2	0.29
						Phase-3	0.25
						Messenger	0.26
						Street Light	0.24

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IS: 14255-1995 (Reaff. 2015)

Sl. No.	Test	Test Method	Specified Requirements (As Per IS 14255-1995, Reaff. 2015)			Test Results	
5.	**Thickness of Insulation, mm**						
a)	Phase Conductor	IS 10810(Pt-6)-1984	Nominal Value: ti	1.50	Nom.	Phase-1	1.57
						Phase-2	1.56
						Phase-3	1.57
			Smallest measured Value: ti-(0.1ti+0.1)	1.25	Min.	Phase-1	1.39
						Phase-2	1.36
						Phase-3	1.38
b)	Messenger conductor	IS 10810(Pt-6)-1984	Nominal Value	1.50	Nom.	1.56	
			Smallest measured Value: ti-(0.1ti+0.1)	1.25	Min.	1.38	
c)	Street Light Conductor	IS 10810(Pt-6)-1984	Nominal Value	1.20	Nom.	1.26	
			Smallest measured Value: ti-(0.1ti+0.1)	0.98	Min.	1.10	
6.	**Volume Resistivity, ohm-cm**	IS 10810(Pt-43)-1984	At 27°C Temp.	1×10^{13}	Min.	Phase-1	8.4×10^{13}
						Phase-2	7.9×10^{13}
						Phase-3	7.8×10^{13}
						Messenger	7.9×10^{13}
						Street Light	7.6×10^{13}
			At 70°C Temp.	1×10^{11}	Min.	Phase-1	16.1×10^{11}
						Phase-2	14.2×10^{11}
						Phase-3	16.0×10^{11}
						Messenger	14.8×10^{11}
						Street Light	14.8×10^{11}
7.	**High Voltage Test (At room Temperature)**	IS 10810(Pt-45)-1984	The cable shall withstand a voltage of 3 kV ac (rms) at a frequency of 40 to 60 Hz between conductors for 5 minute.			Phase-1	Withstood
						Phase-2	Withstood
						Phase-3	Withstood
						Messenger	Withstood
						Street Light	Withstood
8.	**Bending Test on Completed Cable**	Cl. 11.4	No cracks visible to the necked eyes are allowed.			No Cracks observed	
9.	**Carbon Black**						
	a) Content, %	ASTM D 1603, Customer Spec.	--			2.3	
	b) Dispersion	ASTM D 1603, Customer Spec.	In Well Manner Dispersion			Passes	

Remarks: The sample conforms to IS 14255-1995 (Reaff.2015) with respect to above requirements.

CIMEC Infralabs Pvt. Ltd. Mohan Nagar Ghaziabad

(V S Rana, Director)
Authorised Signatory

------- End of Report -------

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THE NATIONAL SMALL INDUSTRIES CORPORATION LIMITED

(A Government of India Enterprise)

Sr. No. 16998

Branch Office : NSIC , New Govind Puri Metro Station, New Delhi Pin Code -110020
Ph : 011-26382567 Fax : .
Email : delhinsic@nsic.co.in Website : www.nsic.co.in

STORE DETAILS CERTIFICATE

	Service(s) Name			Capacity PA
5	PVC Insulated Cables for working voltage up to 1100 V	IS 694:2010	working voltage up to 1100 V Single core-0.5 sq.mm-500 sq.mm Multi core-2c x 0.5 Sq.mm to 4C x 95 sq.mm Aluminium/Copper	5000 KM OR (Assorted sizes)
6	Cross Linked Polyethylene Insulated PVC Sheathed Cables up to & including 1100 V	IS 7098(Pt.1):1988	working voltage up to 1100 V Single core-2.5 sq.mm-240 sq.mm Multi core-2c x 2.5 Sq.mm to 4C x 400 sq.mm 2c x 1.5 sq. mm to 4c x 120 sq.mm Aluminium/Copper (Armoured/Unarmoured)	2000 KM OR (Assorted sizes)
7	Aerial Bunched Cables for Working Voltage up to 1100 V	IS 14255:1995	Working Voltage up to 1100 V Up to 3CX 95+70+16 Sqmm	1000 KM (Assorted sizes)

SGS-Gurgaon Haryana
Comments / Note
(Optional):

N.S.I.C. LTD. Branch Office DELHI

M/s. A T C CABLES

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"Authenticity of the certificate can be checked through the web portal: www.nsicspronline.com"

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THE NATIONAL SMALL INDUSTRIES CORPORATION LIMITED

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(A Government of India Enterprise)

S.No. DEL-0002332
Sr. No. 110902

Branch Office : NSIC , New Govind Puri Metro Station, New Delhi Pin Code -110020
Ph : 011-26382567 Fax : .
Email : delhinsic@nsic.co.in Website : www.nsic.co.in

GOVERNMENT PURCHASE ENLISTMENT CERTIFICATE

Ref.No NSIC/GP/DEL/2021/86407 **(Valid From 29/10/2021 to 28/10/2023)** **Date: 08/11/2021**

M/s. A T C CABLES
Plot No-B 16-17,Sec-5,Bawana Industrial Area,Bawana
New Delhi,
DELHI- 110039

Factory Address:
1 .Plot No-B 16-17,Sec-5,Bawana Industrial Area,Bawana
New Delhi, DELHI -110039
2 .Plot No-C-625,DSIIDC Industrial Area,Narela
New Delhi, DELHI -110040

Name of the Partners
1.SUNIL SOOD
2.SUSHIL SOOD
3.DAVINDER SOOD

Constitution: Partnership

Udyam Registration Number UDYAM-DL-04-0001824

Enterprise Social Class: GENERAL

Special Category: GENERAL

GOVERNMENT PURCHASE REGISTRATION NO: NSIC/GP/DEL/2021/0047488

Monetary Limit: ₹ 1541 lakhs (₹ One Thousand Five Hundred Fourty One Lakh Only)

TURNOVER (Rupees in Lakhs)

Financial Year	Annual Turnover
2017-18	1407.5
2018-19	3081.58
2019-20	2823.09
Monetary Limit	1541

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Name of the Store(s)/ Service(s)	Specification(s)	Qualitative Capacity	Quantitative Capacity P.A.

"As per List Attached" (7 item only)

Disclaimer:- The purchasing agencies are advised to satisfy themselves with the store details in the certificate while doing the Technical Evaluation stage before placing the tender/order on the units, certified by NSIC.

N.S.I.C. LTD. Branch Office DELHI

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Conditions overleaf.

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(A Government of India Enterprise)

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Branch Office : NSIC , New Govind Puri Metro Station, New Delhi Pin Code -110020
Ph : 011-26382567 Fax : .
Email : delhinsic@nsic.co.in Website : www.nsic.co.in

STORE DETAILS CERTIFICATE

(Valid From 29/10/2021 to 28/10/2023)

ANNEXURE TO GOVERNMENT PURCHASES ENLISTMENT CERTIFICATE

NO. **NSIC/GP/DEL/2021/0047488** D.T. 08/11/2021

ISSUED TO **M/s. A T C CABLES,** DELHI

UNIT-1) Plot No-B 16-17,Sec-5,Bawana Industrial Area,Bawana, New Delhi, DELHI-110039

Sno	Store(s)/ Service(s) Name	Specification(s)	Qualitative Capacity	Quantitative Capacity PA
1	PVC Insulated Cables for working voltage up to 1100 V	IS 694:2010	working voltage up to 1100 V Single core-0.5 sq.mm - 500 sq.mm Multi core-2c x 0.5 Sq.mm to 4C x 95 sq.mm Aluminium/Copper	6000 KM OR (Assorted sizes)
2	Cross Linked Polyethylene Insulated PVC Sheathed Cables up to & including 1100 V	IS 7098(Pt.-1):1988	working voltage up to 1100 V Single core-2.5 sq.mm-240 sq.mm Multi core-2c x 2.5 Sq.mm to 4C x 400 sq.mm 2c x 1.5 sq.mm to 4c x 120 sq.mm Aluminium/Copper (Armoured/Unarmoured)	3000 KM OR (Assorted sizes)
3	Aerial Bunched Cables for Working Voltage up to 1100V	IS 14255:1955	Working Voltage up to 1100 V Up to 3CX95+70+16 Sqmm	3000 KM OR (Assorted Sizes)
4	PVC Insulated (Heavy Duty) Electric Cable for Working Voltage up to 1100 V	IS 1554(Pt.-1):1988	Working Voltage up to 1100 V 1C X 2.5 Sqmm to 1C X 630 Sqmm 2c x2.5 sq to 4c x 400 sq.mm 4C x1.5mm to 240 Sqmm. 2C x1.5mm to 61C x 4 Sqmm. 2C x 6 Sqmm to 19 C x 6 Sqmm CU/Al. Armoured/Unarmoured 1100 V	4500 KM (Assorted sizes)

UNIT-2) Plot No-C-625,DSIIDC Industrial Area,Narela, New Delhi, DELHI-110040

Sno	Store(s)/	Specification(s)	Qualitative Capacity	Quantitative

N.S.I.C. LTD. Branch Office DELHI

M/s A T C CABLES

Authorised Signatory

"Authenticity of the certificate can be checked through the web portal: www.nsicspronline.com"

CIN : U74140DL1955GOI002481

QRO
QUALITY RESEARCH ORGANIZATION

Certificate of Registration

This is to certify that

ATC CABLES

B 16 -17, Sec 5, DSIIDC Industrial Area, Bawana, Delhi-110039, India

has been independently assessed by QRO
and is compliant with the requirements of:

ISO 9001:2015

Quality Management System

For the following scope of activities:

Manufacturing and Supply of Wires, Cables, LED Lights and Luminaires

Date of Certification: 22nd July 2019
1st Surveillance Audit Due: 21st July 2020
2nd Surveillance Audit Due: 21st July 2021
Certificate Expiry: 21st July 2022

Certificate Number: 1150719099K

QRO QUALITY RESEARCH ORGANIZATION

UKAF UKAF-CB-004

QUALITY RESEARCH ORGANIZATION QRO QRO Certification LLP

Head of Certification

Validity of this certificate is subject to annual surveillance audits to be done successfully on or before 365 days from date of the audit.
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भारत सरकार
Govt. of India
सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES

उद्योग आधार Udyog Aadhaar

B	Type of Enterprise	Micro	Small	Medium
	Manufacturing	A	B	C
	Services	D	E	F
	UAM No.	DL06B0016868		

Udyog Aadhaar Registration Certificate

Udyog Aadhaar Number: DL06B0016868

Name of Enterprise: ATC CABLES

Location of Plant Details

SN	Flat/Door/Block No.	Name of Premises/Building Village	Road/Street/ Lane	Area/Locality	City	Pin	State	District
1	B	16-17	SECTOR 5	BAWANA INDUSTRIAL AREA	BAWANA INDUSTRIAL AREA	110034	DELHI	NORTH WEST DELHI

Official Address of Enterprise: B, 16-17, SECTOR 5, BAWANA INDUSTRIAL AREA

District: NORTH WEST DELHI State: DELHI PIN: 110034

Mobile No: 9312872044 Email: ATC1601@HOTMAIL.COM

Date of commencement: 01/07/2007

Major Activity: MANUFACTURING

Enterprise Type: Small

Previous Registration details-if any: ::

National Industry Classification Code

SN	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit Code	Activity Type
1	32 - Other manufacturing	3290 - Other manufacturing n.e.c.	32909 - Manufacture of other articles n.e.c.	Manufacturing

Acknowledgement: Date of Filing 05/06/2019 Date of Printing 05/06/2019

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