

Autoshrink Immersion Insulation Resistance Testing

| Date | | |
|--------|-----------|--|
| 9/7/16 | GT-16-153 | |
| • | | |
| | | |
| Rev 1 | | |

Qualification Test Report

| Conducted by: | Preston Clover |
|---------------|----------------|
| Approved by: | Sam Farhat |

1. Scope

The intention of this testing is to measure the immersed insulation resistance (IR) effectiveness of Glenair's Autoshrink material when installed over damaged TurboFlex cable with and without adhesive.

2. Summary of Results

The table below contains a chronological summary of all testing and their results:

QUALIFICATION TEST

| Notes of the test | RESULT | | |
|-------------------------|-----------|-------|------|
| Nature of the test | Completed | WAIVE | FAIL |
| Visual Inspection | X | | |
| Immersion IR Testing | X | | |
| Autoshrink Installation | X | | |
| Immersion IR Testing | X | | |

3. Description of Samples

- Group 1: TurboFlex cable PN: 961-003-T-H-3, size 2/0 AWG with 0.062". Duralectric jacket, nominal OD .607". Autoshrink PN: 777-004-02-4-8, nominal recovered ID .375" installed with no adhesive.
- **Group 2:** TurboFlex cable PN: 961-003-T-H-3, size 2/0 AWG with 0.062". Duralectric jacket, nominal OD .607". Autoshrink PN: 777-004-02-4-8, nominal recovered ID .375" installed with adhesive.



139 W Walnut Ave Monrovia, CA 91016 T: (626) 599-9080 F: (626) 773-8180

Test Report: Autoshrink IR Testing

Client: Sam Farhat

Glenair

1211 Air Way, Glendale, CA 91201 Laboratory Report #: RPC090616-3-3463

Singer Laboratories Report #: RPC090616-1-3463

Prepared by: Preston Clover

Date: 9/6/16

Test Report Approved by: Claribel Gamboa, Quality Representative

Purpose of Test

The intention of this testing is to measure the immersed insulation resistance (IR) effectiveness of Glenair's Autoshrink material when installed over damaged TurboFlex cable with and without adhesive.

Summary of Test Results

All six test samples were measured for IR before and after the installation of Autoshrink material on the TurboFlex cables. In all cases the insulation resistance was measured as 10 Gigaohms or greater. The Autoshrink selected for testing has a nominal recovered ID of .375" and the TurboFlex selected for testing has a nominal OD of .607". This results in a 38% compression rate.

Deviation of Test

There were no deviations during testing.

Important Reference Documents

- 1. EIA-364-03C "Altitude Immersion Test Procedure for Electrical Connectors"
- 2. EIA-364-21E "Insulation Resistance Test Procedure for Electrical Connectors, Sockets and Coaxial Contacts"

Test Criteria

Per Glenair Inc.'s instructions, there are no pass/fail criteria for this testing. All six samples are to be tested pre and post Autoshrink installation and insulation resistance values are to be documented in this report.

| Doc #: QMS510-F2 | Title: Test Report | Date: 5-24-16 |
|----------------------|------------------------|---------------|
| Created By: QMS Rep. | Approved By: P. Clover | Rev: B |



Test Equipment

Hi-Pot Tester Serial #: 9633786
 Calibrated 6/17/2016
 Calibration due 6/17/2017
 Singer Labs # EM00012

Load Cell #: 223913/1445182
 Calibrated 5/12/2016
 Calibration due 5/12/2017
 Singer Labs # CP00004

Calibration certificates for all Singer Laboratories owned equipment are attached to this report.

| Doc #: QMS510-F2 | Title: Test Report | Date: 5-24-16 |
|----------------------|------------------------|---------------|
| Created By: QMS Rep. | Approved By: P. Clover | Rev: B |



Laboratory Report #: RPC090616-3-3463

TABLE 1 - Test Sample Identification

| Test Group Number | Test Item Identification Numbers | Description | Test Item Qty. |
|----------------------|--|--|-------------------|
| 1 | 001-003 | TurboFlex cable PN: 961-003-T-H-3, size 2/0 AWG with 0.062" Duralectric jacket, nominal OD .607". Autoshrink PN: 777-004-02-4-8, nominal recovered ID .375" installed with no adhesive. | 3 |
| 2 | 004-006 | TurboFlex cable PN: 961-003-T-H-3, size 2/0 AWG with 0.062" Duralectric jacket, nominal OD .607". Autoshrink PN: 777-004-02-4-8, nominal recovered ID .375" installed with adhesive. | 3 |

TABLE 2 - Order of Testing

| Test | Test Group #1 | Test Group #2 |
|-------------------------------|---------------|---------------|
| Tag and Inspect | COMPLETED | COMPLETED |
| Immersion IR testing | COMPLETED | COMPLETED |
| Install Autoshrink | COMPLETED | COMPLETED |
| 48 hour cure @ 40C and 50% RH | N/A | COMPLETED |
| Immersion IR testing | COMPLETED | COMPLETED |

| Doc #: QMS510-F2 | Title: Test Report | Date: 5-24-16 |
|----------------------|------------------------|---------------|
| Created By: QMS Rep. | Approved By: P. Clover | Rev: B |





Test Procedure

- 1. Start all testing with virgin TurboFlex cable samples.
- 2. Immerse all test samples in 1 meter of salt water solution for 1 hour. Salt water solution prepared in accordance with *EIA-364-03C*.
- 3. Perform IR testing in accordance with EIA-364-21E. Apply 500 volts DC for 2 minutes, then conduct IR measurement. Record results.
- 4. Cut 1 inch section out of TurboFlex cable material out of each sample.
- 5. Install Autoshrink on samples 001-003 with no adhesive.
- 6. Install Autoshrink on samples 004-006 with adhesive.
- 7. Cure Autoshrink samples 004-006 in environmental chamber for 48 hours at 40C and 50% RH.
- 8. Immerse all test samples in 1 meter of salt water solution for 1 hour. Salt water solution prepared in accordance with *EIA-364-03C*.
- 9. Perform IR testing in accordance with EIA-364-21E. Apply 500 volts DC for 2 minutes, then make IR measurement. Record results.
- 10. Testing complete.

| Doc #: QMS510-F2 | Title: Test Report | Date: 5-24-16 |
|----------------------|------------------------|---------------|
| Created By: QMS Rep. | Approved By: P. Clover | Rev: B |



Test Setup

Test samples were received, inspected, measured and marked. For IR immersion testing samples were placed in 1 meter of salt solution and allowed to soak for 1 hour. Samples were immediately IR tested at the 1 hour mark.

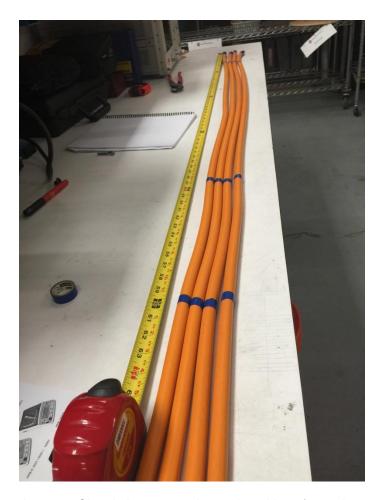


Image 1: Singulating, measuring and marking of samples.

| Doc #: QMS510-F2 | Title: Test Report | Date: 5-24-16 |
|----------------------|------------------------|---------------|
| Created By: QMS Rep. | Approved By: P. Clover | Rev: B |





Image 2: Immersion insulation resistance tank.

| Doc #: QMS510-F2 | Title: Test Report | Date: 5-24-16 | |
|----------------------|------------------------|---------------|--|
| Created By: QMS Rep. | Approved By: P. Clover | Rev: B | |
| | | | |





Image 3: 1 inch of duralectric jacket removed for Autoshrink installation.



Image 4: Example of Autoshrink installed on test sample.

| Doc #: QMS510-F2 | Title: Test Report | Date: 5-24-16 |
|----------------------|------------------------|---------------|
| Created By: QMS Rep. | Approved By: P. Clover | Rev: B |



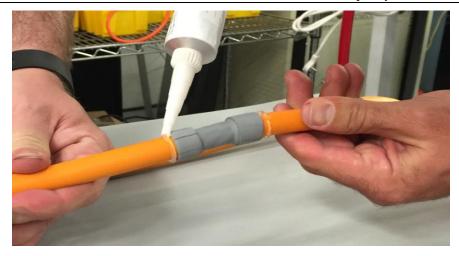


Image 5: Example of Autoshrink installed with adhesive.



Image 6 : Curing of Autoshrink samples with adhesive. 40C @ 50% RH for 48 hours.

| Doc #: QMS510-F2 | Title: Test Report | Date: 5-24-16 |
|----------------------|------------------------|---------------|
| Created By: QMS Rep. | Approved By: P. Clover | Rev: B |



Temp and Humidity #1 Showing at 15min resolution



Image 7: Curing temperature profile of Autoshrink samples with adhesive.

| Doc #: QMS510-F2 | Title: Test Report | Date: 5-24-16 |
|----------------------|------------------------|---------------|
| Created By: QMS Rep. | Approved By: P. Clover | Rev: B |



Test Results:

All samples were visually inspected before testing; no defects of any kind were found that would be harmful to the performance of the test samples. All six test samples reported insulation resistance values greater than 10 Gohms during all testing. Please see recorded results below for pre and post insulation resistance testing.

TABLE 3 – Results of Testing

| Test | Pre-Autoshrink Insulation Resistance | Post-Autoshrink Insulation Resistance |
|------|---|--|
| 001 | >10 Gohms | >10 Gohms |
| 002 | >10 Gohms | >10 Gohms |
| 003 | >10 Gohms | >10 Gohms |
| 004 | >10 Gohms | >10 Gohms |
| 005 | >10 Gohms | >10 Gohms |
| 006 | >10 Gohms | >10 Gohms |

| Doc #: QMS510-F2 | Title: Test Report | Date: 5-24-16 |
|----------------------|------------------------|---------------|
| Created By: QMS Rep. | Approved By: P. Clover | Rev: B |



Laboratory Report #: RPC090616-3-3463

| We | estern | Commercial | Laborat | The First • ory Designed Exclusi | ely For Precision | on Meast | rement. | | |
|--|--|---|-------------------------|---|--|--|--------------------------------|--|--|
| Customer # SIN084 | SINGER LABORATORIES 139 W. WALNUT AVENUE MONROVIA, CA 91016 | | | | Ca | Calibrated: At MQC | | | |
| Barcode 177270 | 3.500 | t Number 0735158 | 180000000 | nase Order 1316-2-3203 | Cal Date 06/17/20 | 4366 | t Cal 17/2017 | Recall 12 M | |
| Instrument Type HIFOT TESTER, A | | 1770 | | Manufacturer ASSOCIATED RESEARCH | Model Numi | 200 | ssuring b | | |
| Cust. Instrument EM00012 | E ID | Manufactus 9633786 | er 5/N | Procedu 1001 | re Te | | mperature midity | 68 deg : | |
| WITHIN TOLERANCE All calibrations conform to | | 0012-1:2003 ANSI | | N TOLERANCE | CAL | IBRATION | AND CERT | TFICATION | |
| Accuracy VCLTAGE : + | (2% | cf setting | AI + 5 V), | DDITIONAL INFORMA CURRENT : ±{2* c sec), CONTINUITY : | setting + 2 | | | | |
| Accuracy VCLTAGE : + TIMER : ±10 Analysis | (2% | of setting | AI + 5 V), + 0.05 | DITIONAL INFORMA | E setting + 2 ±(3% of sett | ing + (| .02 Ohm) | | |
| Accuracy VCLTAGE : + TIMER : ±10 Analysis | (2% | of setting | AI + 5 V), + 0.05 | ODITIONAL INFORMA CURRENT : ±(2% o sec),CONTENUETY : | E setting + 2 ±(3% of sett | ing + (| .02 Ohm) | a Moas | |
| Accuracy VCLTAGE: ± TIMER: ±10 Analysis MEASUR Nominal | (2% | of setting of reading T UNCERTAIN | AI + 5 V), + 0.05 | CURRENT : ± (2% o snc), CONTINUITY : | E setting + 2 ±(3% of sett | ing + (| .02 Ohm) | | |
| Accuracy VCLTAGE: ± TIMER: ±10 Analysis MEASUR Nominal | (2%) | of setting of reading T UNCERTAIN | AI + 5 V), + 0.05 | CURRENT: ±(2% of sec), CONTUNUITY: MATED AT 95% CONFACUAL 1000 2998 | E setting + 2 ±(3% of nett EDENCE LEVEL Minimum 1 975 2935 | ing + ((K=2) saximum 1025 3065 | .02 Ohml | n Moas Une U m 2 a | |
| Accuracy VCLTAGE: ± TIMER: ±10 Analysis MEASUR Nominal | (2%) | of setting of reading T UNCERTAIN | AI + 5 V), + 0.05 | CURRENT: ± (2% of sec), CONTUNUITY: MATED AT 95% CONFACUAL 1000 2998 4997 | E setting + 2 ±(3% of metr LDENCE LEVEL Minimum 1 975 2935 4895 | (K=2) saximum 1025 3065 5105 | .02 Ohal | n Moas Unc 8 ÷ 2 ± 3 ± | |
| Accuracy VCLTAGE: ± TIMER: ±10 Analysis MEASUR Nominal | (2% · . 1% · | of setting of reading T UNCERTAIN | AI + 5 V), + 0.05 | CURRENT: ± (2% o sec), CONTUNUITY: MATED AT 95% CONF Actual 1000 2998 4997 999 | E setting + 2 ±(3% of nett LDENCE LEVEL Minimum 1 975 2935 4895 975 | (K=2) saximum 1025 3065 5105 | .02 Ohal | n Moas Unc 0 ÷ 2 ± 3 ± 1 ± | |
| Accuracy VCLTAGE: ± 10 Analysis MEASUR Nominal | (2%) | of setting of reading T UNCERTAIN | AI + 5 V), + 0.05 | CURRENT: ± (2% of sec), CONTUNUITY: MATED AT 95% CONFACUAL 1000 2998 4997 | E setting + 2 ±(3% of metr LDENCE LEVEL Minimum 1 975 2935 4895 | (K=2) saximum 1025 3065 5105 | .02 Ohal | n Moas Unc 8 ÷ 2 ± 3 ± | |
| Accuracy VCLTAGE: ± TIMER: ± 10 Analysis MEASUR Nominal | (2% - 1% - 1 | of setting of reading T UNCERTAIN | AI + 5 V), + 0.05 | CURRENT: ±(2% o sec), CONTENUETY: MATED AT 95% CONE Actual 1000 2998 4997 599 3000 | E setting + 2 ±(3% of nett EDENCE LEVEL Minimum 1 975 2935 4895 975 2935 | (K=2) (K=2) (aximum 1025 1025 1025 1025 | .02 Ohal | n Moase Unc 0 | |
| Accuracy VCLTAGE: ± TIMER: ±10 Analysis MEASCR Nominal 100 300 500 100 300 100 100 100 100 100 100 100 1 | (2% - 1% - 1 | of setting of reading T UNCERTAIN | AI + 5 V), + 0.05 | CURRENT: ±(2% of sec), CONTINUITY: MATED AT 95% CONF. Actual 1000 2996 4997 999 3000 5004 9,962 100.50 | E setting + 2 £(3% of nett LDENCE LEVEL Minimum 1 979 2935 4895 975 2935 4895 9.798 97.98 | (K=2) Saximum 1029 1065 1025 1025 1065 107 107 107 107 107 107 107 107 107 107 | Doviatio | n Moss Unc 0 = 2 1 1 ± 0 4 ± 4 10 ± 0.0 60 ± 0.0 | |
| Accuracy VCLTAGE: ± TIMER: ±10 Analysis MEASUR Nominal 100 300 500 100 110 100 100 | LEMEN | of setting of reading T UNCERTAIN | AI + 5 V), + 0.05 | CURRENT: ±(2% of sec), CONTUNUITY: CMATED AT 95% CONF Actual 1000 2998 4997 5999 3000 5004 9,962 100.50 | E setting + 2 £(3% of nett LDENCE LEVEL Minimum 1 979 2935 4895 975 2935 4895 9.798 97.98 | (K=2) Saximum 1029 1065 1028 1028 1028 10202 102.02 | .02 Ohml Deviatio -0.03 6.1 | n Mose Unc 0 | |
| Accuracy VCLTAGE: ± TIMER: ±10 Analysis MEASUR Nominal 100 300 500 100 110 1100 1100 | LEMEN VDC | of setting of reading T UNCERTAIN C C C C C C C C C C C C C C C C C C C | AI + 5 V), + 0.05 | CURRENT: ±(2% of sec), CONTINUITY: MATED AT 95% CONF. Actual 1000 2996 4997 999 3000 5004 9,962 100.50 | E setting + 2 £(3% of nett LDENCE LEVEL Minimum 1 979 2935 4895 975 2935 4895 9.798 97.98 | (K=2) Saximum 1025 1025 1025 1036 1020 10202 102.02 | Doviatio | n Mose Unc 0 | |

| Doc #: QMS510-F2 | Title: Test Report | Date: 5-24-16 |
|----------------------|------------------------|---------------|
| Created By: QMS Rep. | Approved By: P. Clover | Rev: B |



| Customer # | Weater | rn Commerc | cial Laborate | | e First • ned Exclusively | For P | recision N | leasurement. | |
|--|---|--|--|--|--|---|--|---|--|
| | SING | ER LABORAT | ORIES | | | | | | |
| SINC84 | 139 W. WALNUT AVENUE Calibrated: At MQC MONROVIA, CA 91016 | | | | | | | | |
| Barcode | Cert | Number | Purchase | Order | | Cal | Date | Next Cal | Recall |
| 177497 | 10007 | 727085 | CG050916- | 1-3203 | | 05/1 | 2/2016 | 05/12/2017 | 12 N |
| Instrument ' | | 0.5% W/DIC | G. READOUT | Manufac OMEGA E | | 30,000,000 | Number 2-500 -S-A | Measuring P 0-500 LBP | Range |
| Instrument CP00004 | Id | Serial No 223913/14 | | | Procedure 17-2CMF-34 | | | Temperature Humidity | 72 deg F 35% |
| Condition Re | | | dition Retu | | Reason For Calibratio | | | ntion. | |
| | | | | | UNCSL Z-540,3-1994 | - | certific | SELION | |
| | | | | | LINFORMATIO | | | | |
| Accuracy ±0.5% Full | Scale | | | | | | | | |
| Nominal | | | | | A | ctual | Minim | | Deviation |
| | | Lbs. Tens. | | | , | 99.2 | 197 | .5 102.5 .5 202.5 | |
| | | Lbs. Tens. | | | | 300.2 | 297 | | |
| | | Lbs. Tens. | | | | | | | |
| | | | C . | | | 399.7 | 397 | | |
| | the equipm | Lbs. Tens. | has been compared | | ds listed below in acce | 99.5 ordance w | 397 497 Th the reference | .5 402.5 .5 502.5 cc procedure er specifi | -0.3 -0.5 ication and has been |
| ound to conform to t occumenced due da | the equipm he specified to of the ite The standar nanufacture | Libs. Tens on noted hereon filmits. Although mealthrated does to that have been by requirements for the content of the content | has been compared in the item calibrate and imply centing utilized in this call or the above menti- | ed meets the sp ing conformer ibsation are cer ioned item. | ds listed below in acceptation and performance to apecification during the desired by, or are tracen | 999.5 ordance w mance at the ring the re- ible to, the | 397 497 th the reference he time of cali commended in National Insti | 5 402.5 5 502.5 ce procedure or specification, due to any number val. Pertinent data into of Standards and | - 0 . 3 - 0 . 5 iention and has been mher of factors, the it any, is listed on |
| ound to conform to to ecommended due du he attached sheets. "I | the equipm he specified to of the ite The standar nanufacture | Libs. Tens on noted hereon filmits. Although mealthrated does to that have been by requirements for the content of the content | has been compared in the item calibrate mut imply cention utilized in this cal- tion the above menti- ourt shall not be re- | ed meets the sp ing conformer ibsation are cer oned item. eproduced ex- | eds listed below in acce- secification and perfor- nce to specification dur- nified by, or are tracea- cept in full without the | 999.5 ordance w mance at the ring the re- ible to, the | 397 497 th the reference he time of cali commended in National Insti | 5 402.5 5 502.5 ce procedure or specification, due to any number val. Pertinent data into of Standards and | - 0 . 3 - 0 . 5 iention and has been mher of factors, the it any, is listed on |
| ound to conform to the ecommended due day the attached sheets. 'I ad meet or exceed an | the equipm he specified to of the ite the standard annifacturer The | Lbs. Tens. ent noted hereon Himits. Although medilirated does to that have been experiments for certificate or rep | has been compared to the item calibrate that imply centina untilized in this call for the above menti- port shall not be re- | ed meets the sp ing conformat ibintion are cer- oned item. eproduced ex- STANDARI | eds listed below in acce- secification and perfor- nce to specification dur- nified by, or are tracea- cept in full without the DS EMPLOYED | 999.5 ordance w mance at the ring the re- ible to, the | 397 497 th the reference he time of cali commended in National Insti | 5 402.5 5 502.5 ce procedure or specification, due to any number val. Pertinent data inte of Standards and | -0.3 -0.5 ication and has been mher of factors, the if any, is listed on Technology (NIST) |
| ound to conform to to ecommended due du he attached sheets. "I | the equipm he specified to of the ite the standard annifacturer The | Libs. Tens on noted hereon filmits. Although mealthrated does to that have been by requirements for the content of the content | has been compared to the item calibrate that imply centina untilized in this call for the above menti- port shall not be re- | ed meets the sp ning conformar ibintion are cer oned item. eproduced exe STANDAR) | eds listed below in acceptance to specification and performance to specification durinfied by, or me tracen expt in full without the DS EMPLOYED matterment. Type | 999.5 ordance w mance at ti ring the re- ible to, the e written | 397 437 th the reference of calification of the commended in National Institute approval of the commended in | .5 402.5 .5 502.5 ee procedure or specification, due to any nu- nerval. Pertinent data nuice of Standards and he laboratory. | -0.3 -0.5 tention and has been mher of facturs, the , if any, is listed on Technology (NIST) |
| ound to conform to the commended due day the attached sheets. It administrates or exceed in the state of the | the equipm he specified to of the ite the standard annufacturer The | Lbs. Tens. cm noted hereon Himits. Although m calibrated does is that have been requirements for certificate or rep Model. Number | has been compared in the item calibrate that imply centina utilized in this cali to the above menti- ourt shall not be re- S | ed meets the sp ning conformar ibination are ca- oned item. eproduced exc STANDARI En | eds listed below in acce- secification and perfor- nce to specification dur- nified by, or are tracea- cept in full without the DS EMPLOYED | 999.5 ordance w mance at ti ring the re- ible to, the e written | 397 437 th the reference of calification of the commended in National Institute approval of the commended in | .5 402.5 .5 502.5 ee procedure or specification, due to any nu- nerval. Pertinent data nuice of Standards and he laboratory. | -0.3 -0.5 leation and has been mher of factors, the if any, is listed on Technology (NIST) |
| ound to conform to decommended due dance attached sheets. The most or exceed in the 181 Std 1816 | the equipm he specified to of the ite the standar sanofacturer The | Lbs. Tens. cut noted hereon Himits. Although m califrated does to that have been be requirements for certificate or rep Model. Number CT485-AL LO X 25 LB: B/A | has been compared in the item calibrate that imply centina utilized in this cali to the above menti- ourt shall not be re- S | ed meets the sping conformation are certained item. eproduced execution are certained item. for a conformation are certained item. | eds listed below in acceptance to specification and performance to specification durinified by, or me tracen copy in full without the DS EMPLOYED INSTRUMENT TYPE HART RECORDER, EST WEIGHTS EIGHT SET | 999.5 ordance w mance at ti ring the re- ible to, the e written | 397 437 th the reference of calification of the commended in National Institute approval of the commended in | .5 402.5 .5 502.5 ee procedure or specification, due to any nu- nerval. Pertinent data nuice of Standards and he laboratory. | -0.3 -0.5 leation and has been mher of factors, the it any, is listed on Technology (NIST) Doe Date 02/28/2017 10/31/2016 10/31/2016 |
| ound to conform to disconnected due day the attacked sheets. The manufactor exceed and tell stal | the equipm he specified to of the ite The standar sanufacturer | Lbs. Tens. cat noted hereon Himits. Although m califrated does to the have been been tilleate or rep Model. Number CT485 Al. 10 X 25 LB: B/A 2000-303-0 | has been compared in the item calibrate that imply centina utilized in this calibrate above mentiout \$\text{Stall}\$ and \$\text{Lord to the above mentiout}\$. | ed meets the sping conformation are certained from the conformation are certained from the conformation of the certain and the certain are certained from the certain are certain and the certain are certain are certain and the certain are certain | eds listed below in acceptance to specification and performent to specification durinified by, or me tracent option in the second of the secon | e 99 . 5 ordance w mance at the ring the re- bile to, the e written | 397 437 th the reference of calification of the commended in National Institute approval of the commended in | .5 402.5 .5 502.5 ee procedure or specification, due to any nu- nerval. Pertinent data nuice of Standards and he laboratory. | -0.3 -0.5 leation and has been wher of factors, the it any, is listed on Technology (NIST) Doe Date 02/28/2017 10/31/2016 10/31/2016 05/31/2016 |
| ound to conform to decommended due data to attacked sheets. The direction exceed in the state of | the equipm he specified to of the ite the standar tanufacturer The | Lbs. Tens. cat noted hereon Hintis. Although m califrated does to that have been be requirements for certificate or reg Model Number CT485-AL 10 X 25 LB: M/A 2000-303-0 B/A. | has been compared to the item calibrate nat imply centima utilized in this call to the above ments out shall not be researched. S | ed meets the sping conformation are certainly conformation are certainly conformation and certainly conformation and certainly | eds listed below in acceptation and performance to specification during the second of | e 99 . 5 ordance w mance at the ring the re- bile to, the e written | 397 437 th the reference of californium and the commended in National Institute approval of the | .5 402.5 .5 502.5 ee procedure or specification, due to any nu- nerval. Pertinent data nuice of Standards and he laboratory. | -0.3 -0.5 lention and has been miter of factors, the it any, is listed on Technology (NIST) Doe Date 02/28/2017 10/31/2016 10/31/2016 05/31/2016 |
| ound to conform to the commended due day the attacked sheets. The direction exceed in the state of the state | the equipment of the iterity of the | Lbs. Tens. cat noted hereon Himits. Although m califrated does to the have been be requirements for certificate or rep Model. Number CT485-AL 10 X 25 LB: M/A 2000-303-0 R/A. Kional Institu | has been compared to the item calibrate nat imply centima utilized in this call to the above ments ourt shall not be researched. See the call the call to the call th | ed meets the sping conformaries in the sping conformaries when the sping conformation are certainly sping conformation and the sp | eds listed below in acceptation and performance to specification during the performance of the second second in the second second in the second second in the second secon | e 99 , 5 ordance w mance at thing the re- ble to, the e written | 397 437 th the reference true of calicommended in National Institutional Institutional California (Institutional Institutional Institutional Institutional Institutional Institutional Institutional Institutional Institu | .5 402.5 .5 502.5 ex procedure or specification, due to any numbered. Pertunent data, indee of Standards and the laboratory. T485-AL | -0.3 -0.5 leation and has been where of factors, the it any, is listed on Technology (NIST) Doe Date 02/28/2017 10/31/2016 10/31/2016 05/31/2016 02/28/2017 |
| ound to conform to decommended due data to attacked sheets. The direction exceed in the state of | the equipmine specified to of the iterite standars annotaturer. The | Lbs. Tens. cat noted hereon Hintis. Although m califrated does to that have been be requirements for certificate or reg Model Number CT485-AL 10 X 25 LB: M/A 2000-303-0 B/A. | has been compared in the item cultivate in the item cultivate in the item cultivate in this call in the above mention in the above ment | ed meets the sping conformation are certainly conformation are certainly conformation and certainly conformation and certainly | eds listed below in acceptance to specification and performent to specification durinified by, or me tracent to the first time of the content | e 99 , 5 ordance w mance at thing the re- ble to, the e written | 397 437 th the reference terms of calicantenated in National Institutional Institution | .5 402.5 .5 502.5 ee procedure or specification, due to any nu- nerval. Pertinent data nuice of Standards and he laboratory. | -0.3 -0,5 lention and has been mher of factors, the iff any, is listed on Technology (NIST) Doo Date 02/28/2017 10/31/2016 05/31/2016 02/28/2017 |

| Doc #: QMS510-F2 | Title: Test Report | Date: 5-24-16 |
|----------------------|------------------------|---------------|
| Created By: QMS Rep. | Approved By: P. Clover | Rev: B |