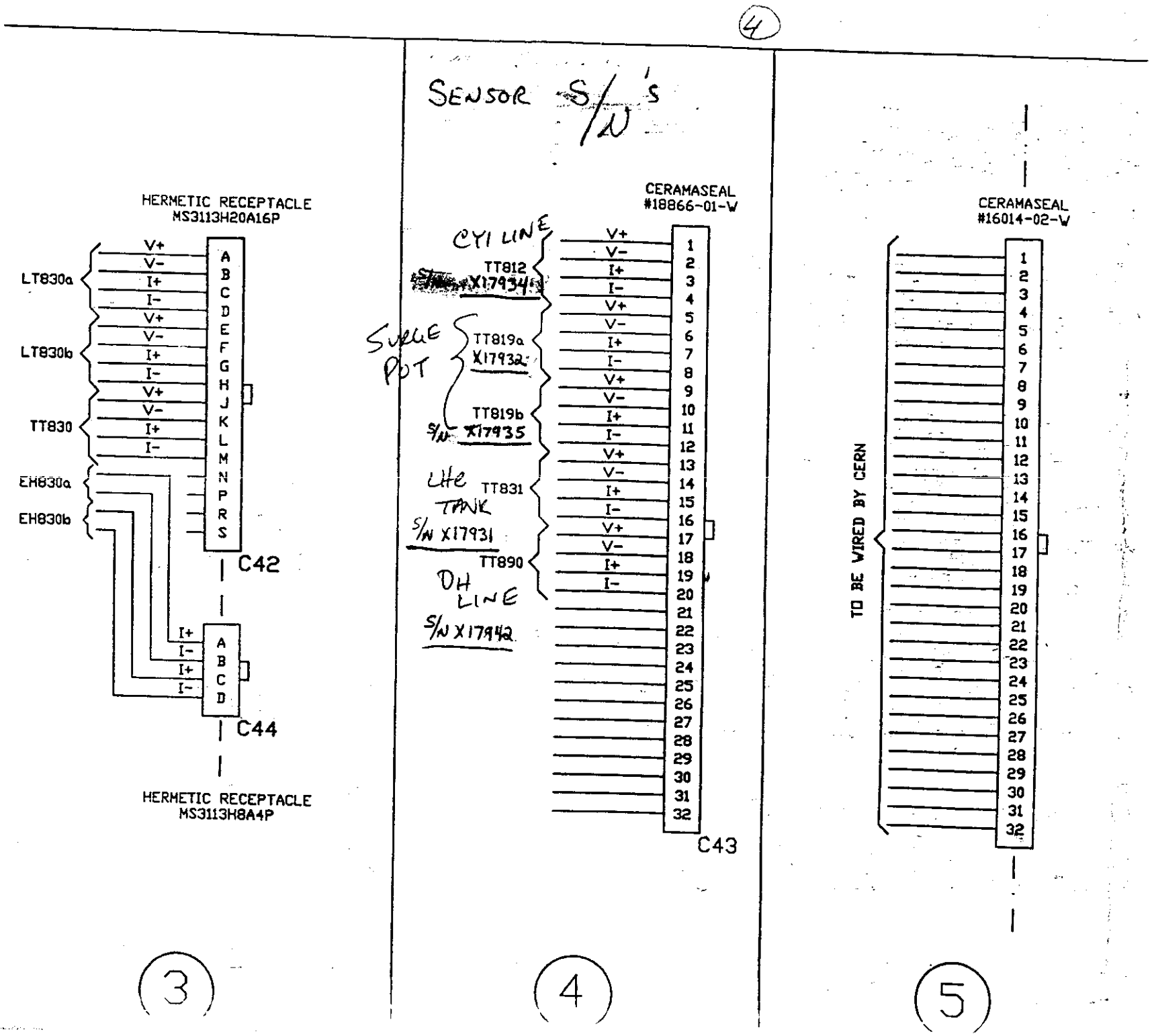
Thermometer Electrical Test Reports


4
SENSOR S/N's
HERMETIC RECEPTACLE
MS3113H20A16P
LT830a
LT830b
TT830
EH830a
EH830b
V+
V-
I+
I-
C42
C44
HERMETIC RECEPTACLE
MS3113H8A4P
CERAMASEAL
#18866-01-W
CYI LINE
TT812
X17934
SURGE POT
TT819a
X17932
TT819b
S/N X17935
LHe TANK
TT831
S/N X17931
TT890
DH LINE
S/N X17942
C43
CERAMASEAL
#16014-02-W
TO BE WIRED BY CERN
3
4
5

Cryogenic Thermometer Traveller

Box "F" SURGE POT CY1 LINE TT812

DESCRIPTION*

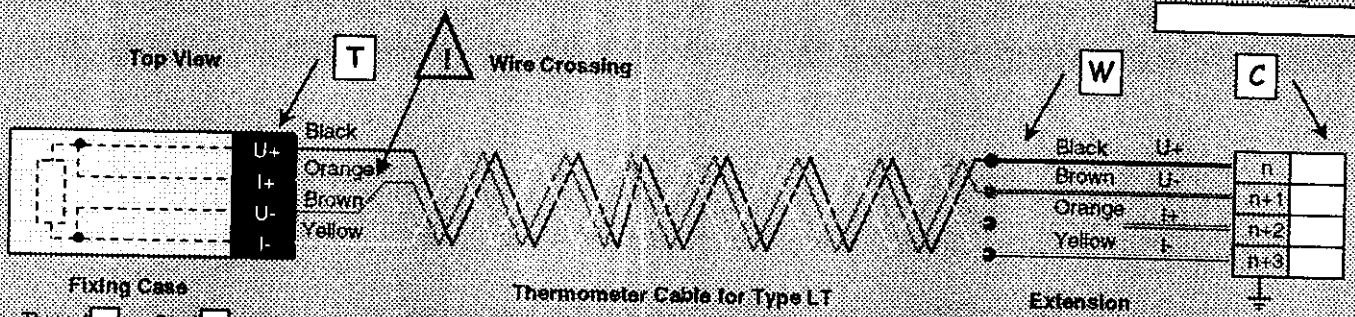
Part Description:	Cryogenic thermometer	**Instrument Name:**	
CERN Part Identifier:	HCQITELCXT-CR015290	**Top Assembly:**	
Other Identification:	CX_LS_X17934	**Functional Equipment Identifier:**	

* In accordance with LHC-QIT-QA-0002

S/N X17934

CABLING

Connector Tag Name



Fixing Case

Thread ☐ Stud ☐

Hole ☐ Pipe ☐

Thermometer Cable for Type LT

ρ (300 K) = 36 Ohm/m

Manganin AWG 36

Length = 1 m

Extension

ρ (300 K) = 0.07 Ohm/m

Copper AWG 24

Length: 5 cm

CHECKS

Intervention	Date/ DD-MMM-YYYY	Check Point	R(U+,U-,I+,I-) [Ohm] 4W	R(U-,I-) [Ohm] 2W	R(U+,I+) [Ohm] 2W	R(U+,CND) [Ohm] 2W	Temperature [K]	Firm/Laboratory	Checked by
Calibration	12-Apr-2002	T [redacted]	59.51	13.86	13.99	OVL	300	IPN	Joly
Expedition	04-Sep-2003	T [redacted]	58.86	13.86	13.99	OVL	293.00	CERN	Vauthier
Reception		T W C							
		T W C							
CABLING	06-AUG-04	[redacted] C	58.44	98.12	97.40	OVL	295.3	LBNL	ANDERSON
		T W C		98.12	97.40	OVL			W.J. 4/8/05
AFTER SILO	5-5-05	T W C		98	97	OPEN			W.J.
		T W C							
		T W C							
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Box F / / 011 / T

Cryogenic Thermometer Traveller

DESCRIPTION*

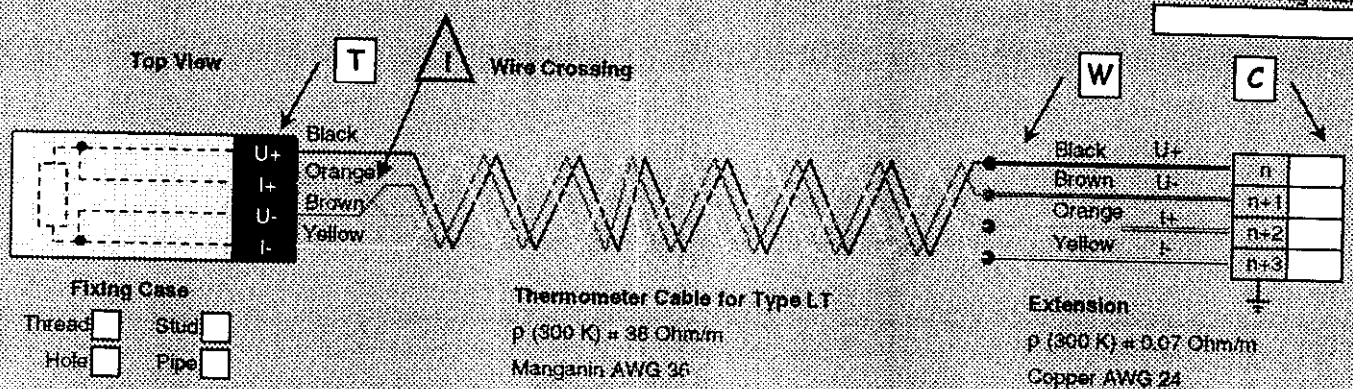
Part Description:	Cryogenic thermometer	**Instrument Name:**	
CERN Part Identifier:	HCQITELCXT-CR015280	**Top Assembly:**	
Other Identification:	CX_LS_X17932	**Functional Equipment Identifier:**	

* In accordance with LHC-QIT-QA-0002

S/N X17932

CABLING

Connector Tag Name



Fixing Case

Thread ☐ Stud ☐
Hole ☐ Pipe ☐

Thermometer Cable for Type LT

ρ (300 K) ≈ 38 Ohm/m
Manganin AWG 36
Length ≈ 1 m

Extension

ρ (300 K) ≈ 0.07 Ohm/m
Copper AWG 24
Length: 5 cm

CHECKS

Intervention	Date DD-MMM-YYYY	Check Point	R(U+,U-,I+,I-) [Ohm] 4W	R(U-,I-) [Ohm] 2W	R(U+,I+) [Ohm] 2W	R(U+,GND) [Ohm] 2W	Temperature [K]	Place/Laboratory	Checked by
Calibration	12-Apr-2002	T [redacted]	60.98	22.42	22.17	OVL	300	IPN	Joly
Expedition	04-Sep-2003	T [redacted]	60.32	22.42	22.17	OVL	293.00	CERN	Vauthier
Reception		T W C							
CABLING	09-AUG-04	[redacted] C	60.28	105,94	105.19	OVL	295.5	LBNL	ANDERSON
		T W C		106	105	OPEN			W.J.
AFTER SILO	5-5-05	T W C		106	105	open			W.J.
		T W C							
		T W C							
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Box F / 1 of 1

Cryogenic Thermometer Traveller

DESCRIPTION*

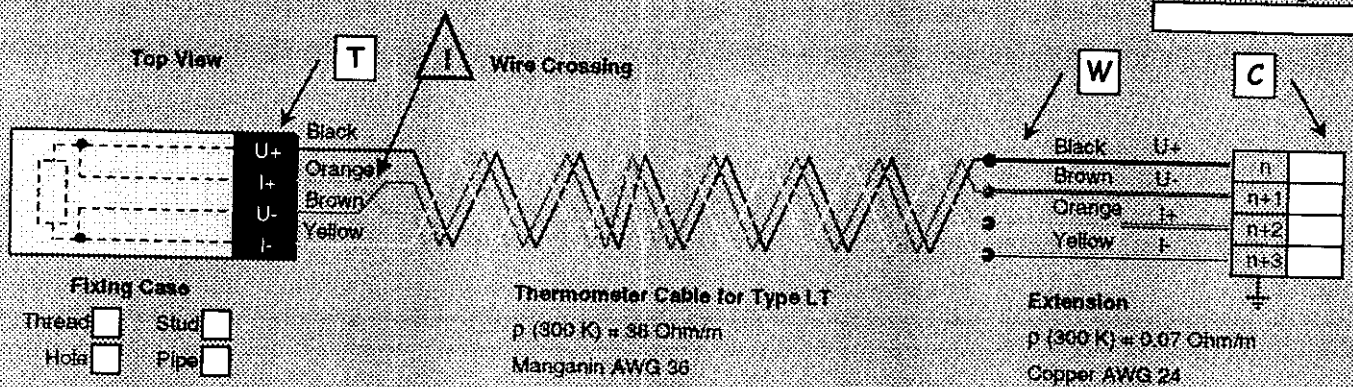
Part Description:	Cryogenic thermometer	**Instrument Name:**	
CERN Part Identifier:	HCQITELCXT-CR015300	**Top Assembly:**	
Other Identification:	CX_LS_X17935	**Functional Equipment Identifier:**	

* In accordance with LHC-QIT-QA-0002

S/N X17935

CABLING

Connector Tag Name



Fixing Case

Thread ☐ Stud ☐
Hole ☐ Pipe ☐

Thermometer Cable for Type LT

ρ (300 K) = 38 Ohm/m
Manganin AWG 36
Length = 1 m

Extension

ρ (300 K) = 0.07 Ohm/m
Copper AWG 24
Length: 5 cm

CHECKS

Intervention	Date/ DD-MMM-YYYY	Check Point	R(U+,U-,I+,I-) [Ohm] 4W	R(U-,I-) [Ohm] 2W	R(U+,I+) [Ohm] 2W	R(U+,GND) [Ohm] 2W	Temperature [K]	Firm/Laboratory	Checked by
Calibration	12-Apr-2002	T [redacted]	61.86	22.82	22.79	OVL	300	IPN	Joly
Expedition	04-Sep-2003	T [redacted]	61.23	22.82	22.79	OVL	293.00	CERN	Vauthier
Reception		T W C							
CABLING	06-AUG.-04	[redacted] C	60.45	106.92	105.97	OVL	295.2	LBNL	ANDERSON
		T W C		106	105	open			W.J.
AFTER SOLD.	5-5-05	T W C		106	105	open			W.J.
		T W C							
		T W C							
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Box F

Cryogenic Thermometer Traveller

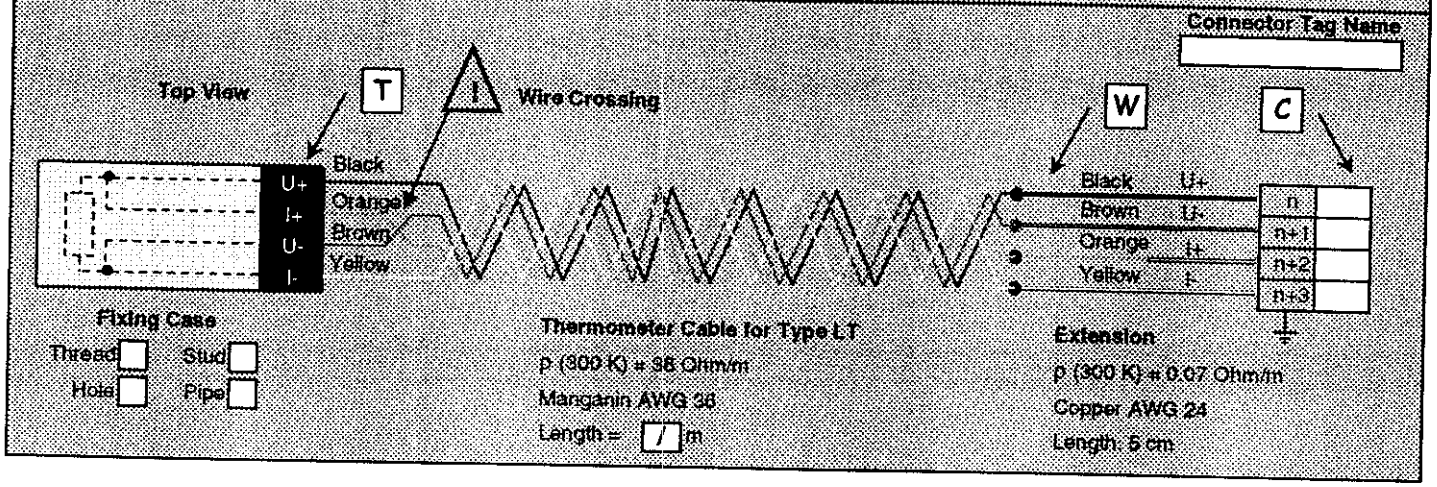
S/N X17931 TT831

DESCRIPTION*

Part Description:	Cryogenic thermometer	Instrument Name:	
CERN Part Identifier:	HCQITELCXT-CR015270	Top Assembly:	
Other Identification:	CX_LS_X17931	Functional Equipment Identifier:	

* In accordance with LHC-QIT-QA-0002

CABLING



CHECKS

Intervention	Date/ DD-MMM-YYYY	Check Point	R(U+,U-,I+,I-) [Ohm] 4W	R(U-,I-) [Ohm] 2W	R(U+,I+) [Ohm] 2W	R(U+,GND) [Ohm] 2W	Temperature [K]	Firm/Laboratory	Checked by
Calibration	12-Apr-2002	T [redacted]	59.97	24.06	24.09	OVL	300	IPN	Joly
Expedition	04-Sep-2003	T [redacted]	59.34	24.06	24.09	OVL	293.00	CERN	Vauthier
Reception		T W C							
		T W C							
CABLING	06-AUG-04	[redacted] C	58.72	107.90	106.65	OVL	295.6	LBNL	ANDERSON
		T W C		107	106	open			WJ.
AFTER SOLD,	5-5-05	T W C		100	106	open			WJ.
		T W C							
		T W C							
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BOX F P11 LINE

Cryogenic Thermometer Traveller

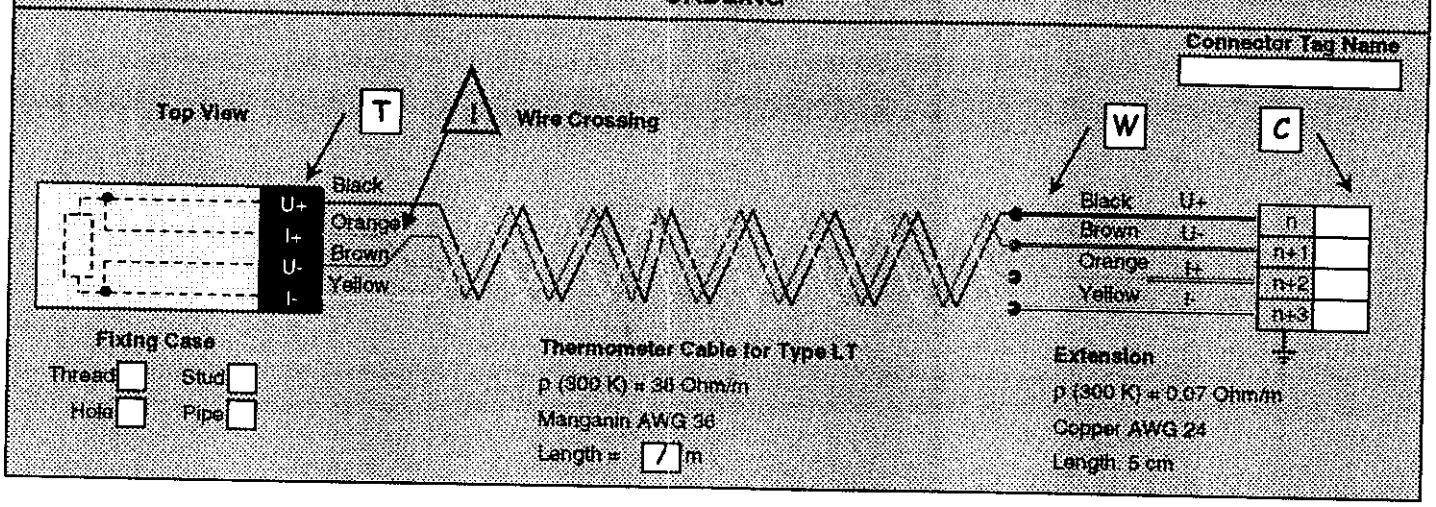
S/N X17942 TT890

DESCRIPTION*

Part Description:	Cryogenic thermometer	Instrument Name:	
CERN Part Identifier:	HCQITELCXT-CR015340	Top Assembly:	
Other Identification:	CX_LS_X17942	Functional Equipment Identifier:	

* In accordance with LHC-QIT-QA-0002

CABLING



CHECKS

Intervention	Date/ DD-MMM-YYYY	Check Point	R(U+,U-,I+,I-) [Ohm] 4W	R(U-,I-) [Ohm] 2W	R(U+,I+) [Ohm] 2W	R(U+,GND) [Ohm] 2W	Temperature [K]	Firm/Laboratory	Checked by
Calibration	12-Apr-2002	T [redacted]	63.44	23.96	23.60	OVL	300	IPN	Joly
Expedition	04-Sep-2003	T [redacted]	62.82	23.96	23.60	OVL	293.00	CERN	Vauthier
Reception		T W C							
		T W C							
CABLING	06-AUG 04	[redacted] C	62.43	107.16	106.76	OVL	293.00	LBNL	ANDERSON
		T W C		107	106	OPEN			W.J.
AFTER SOLDERING	5-5-05	T W C		106	105	OPEN			W.J.
		T W C							
		T W C							
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		T W C							

Test Instruments Used

Test Model #	Test Serial #	Calibration Due Date
7550DT	9111100	02/01/2004

Test Date: 05/06/2005

Test Time: 06:52:08 PM

User Name: Glen Koenig

Device Tested

Model Number: box F

Serial Number: temperature 32 pin connector in SEP SIR

Setup Filename: Leads In Air & He.

Results

	Test Type	Memory	Step	Pass/Fail	Test Result	Timer	Parameter 1	Parameter 2
1	DC Withstand	28	1	Pass	Pass	60.0s	0.30KV	0.0microamps

Test Instruments Used

Test Model #	Test Serial #	Calibration Due Date
7550DT	9111100	02/01/2004

Test Date: 05/10/2005

Test Time: 04:46:14 AM

User Name: Glen Moody

Device Tested

Model Number: feed box F LQX

Serial Number: COLD MASS THERMOMETER

Setup Filename: Leads In Air & He.

Results

	Test Type	Memory	Step	Pass/Fail	Test Result	Timer	Parameter 1	Parameter 2
1	DC Withstand	28	1	Pass	Pass	60.0s	0.30KV	0.0microamps