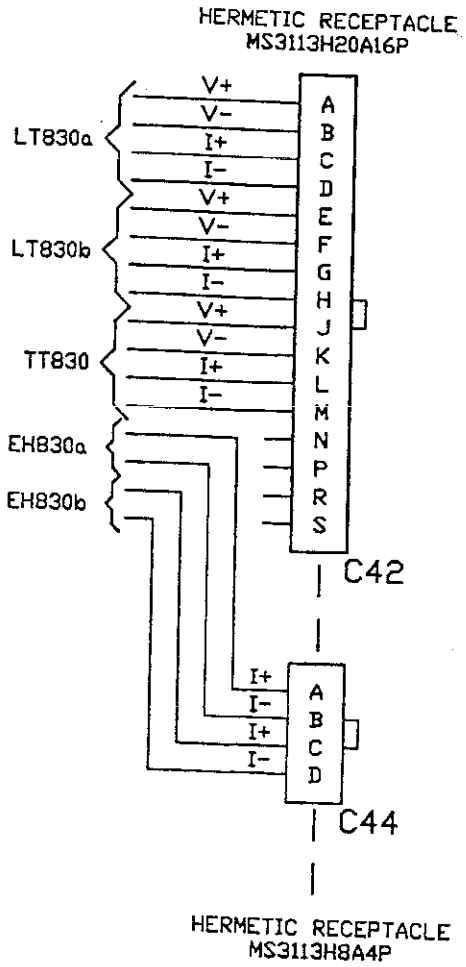
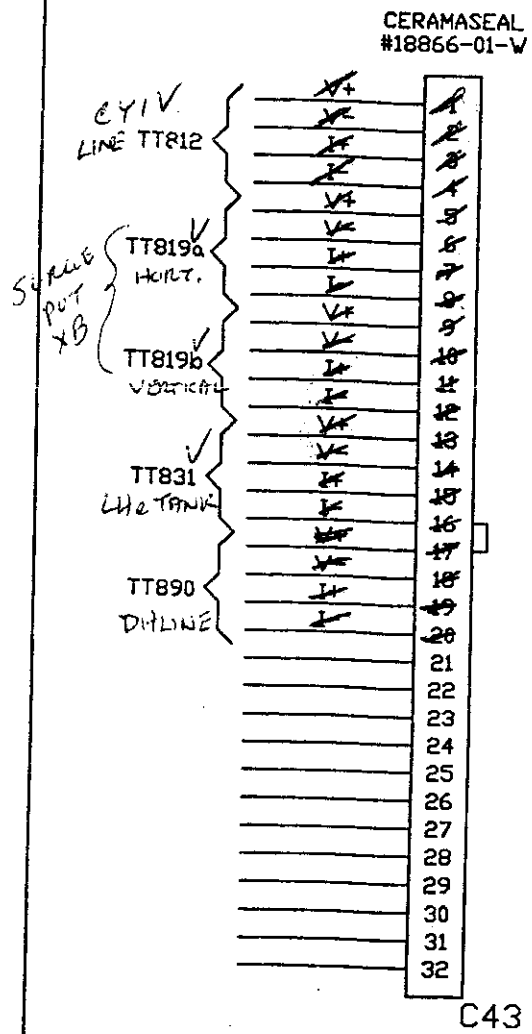
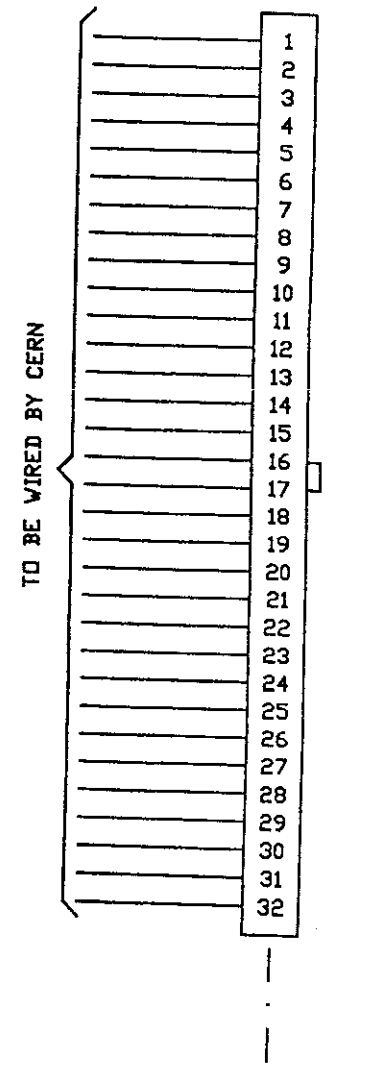
Thermometer Electrical Test Reports

Box A

Cy1 TT812	S/N X17955
TT819a	S/N X17958
TT819b	S/N X17949
TT831	S/N X17957
TT890	S/N X17930







3 4 5

BOX A [redacted]

Cryogenic Thermometer Traveller

CY1 TT812

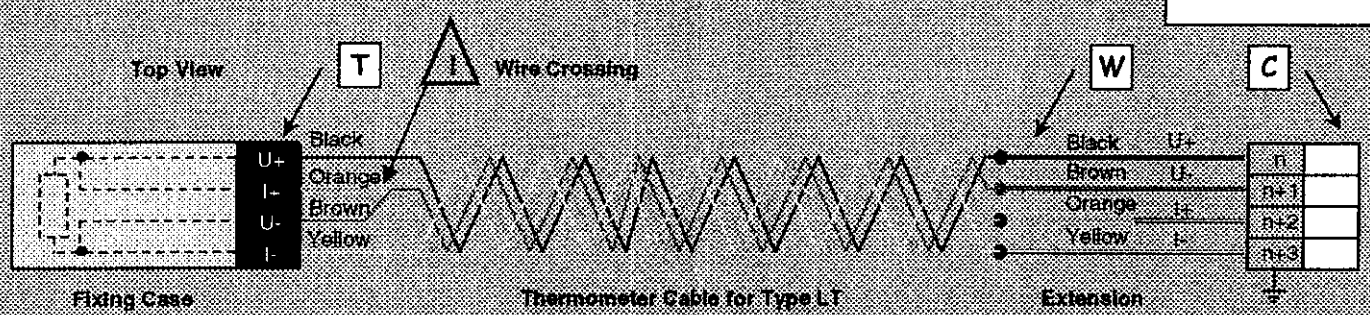
DESCRIPTION*

Part Description:	Cryogenic thermometer	Instrument Name:	
CERN Part Identifier:	HCQITELCXT-CR015410	Top Assembly:	
Other Identification:	CX_LS_X17955	Functional Equipment Identifier:	

* In accordance with LHC-QIT-QA-0002

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]	62.45	18.81	18.80	OVL	300	IPN	Joly
Expedition	04-Sep-2003	T [redacted]	61.87	18.81	18.80	OVL	293.00	CERN	Vauthier
Reception		[redacted] C							
		[redacted]							
CABLING	09-AUG. 04	[redacted] C	61.90	101.85	100.77	OVL	294.1	LBNL	ANDERSON
		T W C							
BEFORE DISPLINC		T W C		102.90	100.8	OVL			J.N.L.
AFTER INSTALLN		T W C		102.00	100.8	OVL			J.K.
AFTER SOLD.	5-12-05	T W C		163.9	163.9	OPEN			W.J.
		T W C							
		T W C							
		T W C							
		T W C							
		T W C							
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Box A

Cryogenic Thermometer Traveller

TT819 a

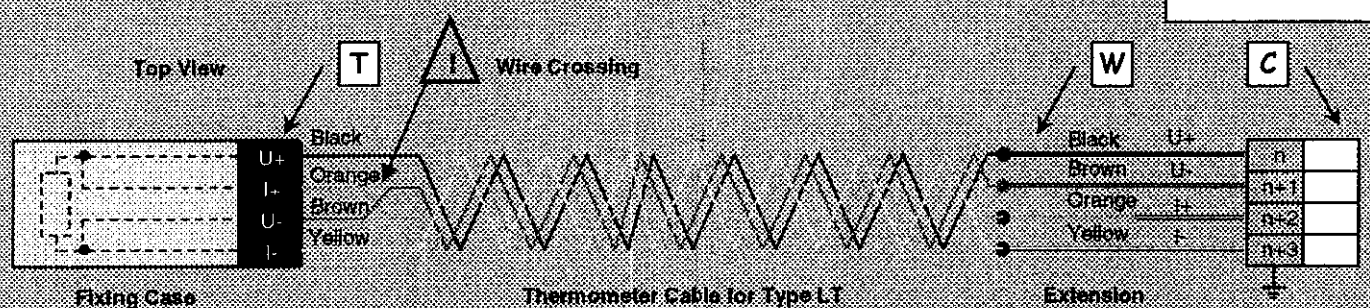
DESCRIPTION*

Part Description:	Cryogenic thermometer	Instrument Name:	
CERN Part Identifier:	HCQITELCXT-CR015440	Top Assembly:	
Other Identification:	CX_LS_X17958	Functional Equipment Identifier:	

* In accordance with LHC-QIT-QA-0002

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 = 7 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]	61.60	18.61	18.47	OVL	300	IPN	Joly
Expedition	04-Sep-2003	T [redacted]	61.04	18.61	18.47	OVL	293.00	CERN	Vauthier
Reception		T W C							
		T W C							
CABLEING	06-AUG-04	[redacted] C	60.43	102.11	101.14	OVL	295.0	LBNL	ANDERSON
		T W C							
BEFORE MOUNTING	5-11-05	T W C		101	100	OPEN			W.J.
AFTER MOUNTING	5-12-05	T W C		101	100	OPEN			W.J.
AFTER SOLD.	5-12-05	T W C		162	162	OPEN			W.J.
		T W C							
		T W C							
		T W C							
		T W C							
		T W C							
		T W C							
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Box A

Cryogenic Thermometer Traveller

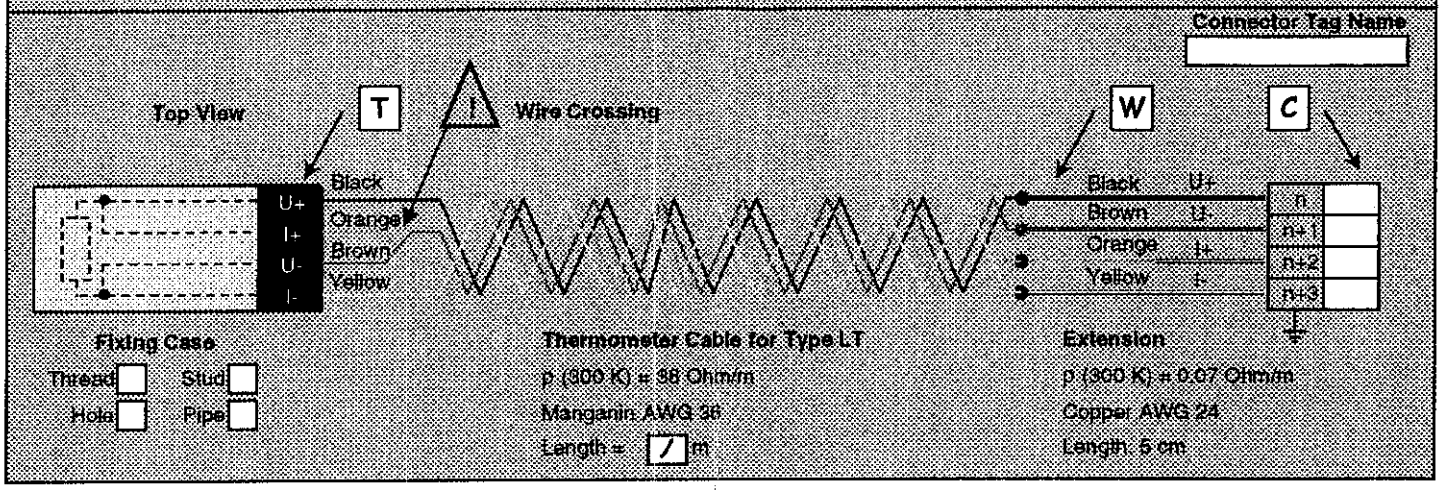
TT819 b

DESCRIPTION*

Part Description:	Cryogenic thermometer	Instrument Name:	
CERN Part Identifier:	HCQITELCXT-CR015390	Top Assembly:	
Other Identification:	CX_LS_X17949	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]	61.55	19.94	19.76	OVL	300	IPN	Joly
Expedition	04-Sep-2003	T [redacted]	60.92	19.94	19.76	OVL	293.00	CERN	Vauthier
Reception		T W C							
CABLING	09-AUG. 04	[redacted] C	60.92	103.24	102.31	OVL	293.5	LBNL	ANDERSON
		T W C							
BEFORE MOUNTING	5-11-05	T W C		103	102	OPEN			W.J.
AFTER MOUNTING	5-12-05	T W C		103	102	OPEN			W.J.
AFTER SOLD.	5-12-05	T W C		162	163	OPEN			W.J.
		T W C							
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Box A

Cryogenic Thermometer Traveller

LHe TANK TT831

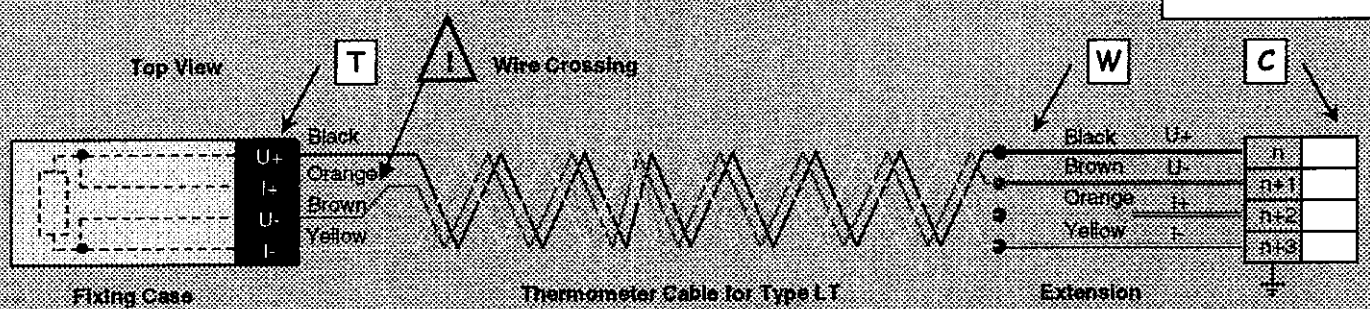
DESCRIPTION*

Part Description:	Cryogenic thermometer	Instrument Name:	
CERN Part Identifier:	HCQITELCXT-CR015430	Top Assembly:	
Other Identification:	CX_LS_X17957	Functional Equipment Identifier:	

* In accordance with LHC-QIT-QA-0002

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	60.15	22.54	22.45	OVL	300	IPN	Joly
Expedition	04-Sep-2003	T	59.59	22.54	22.45	OVL	293.00	CERN	Vauthier
Reception		T W C							
CABLING	09-AUG. 04	C	59.73	103.74	103.22	OVL	293.2	LBNL	ANDERSON
		T W C							
BEFORE MOUNTING	5-11-05	T W C		103	103	OPEN			W.J.
AFTER MOUNTING	5-12-05	T W C		103	103	OPEN			W.J.
AFTER SOLD	5-12-05	T W C		163	162	OPEN			W.J.
		T W C							
		T W C							
		T W C							
		T W C							
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Box A

Cryogenic Thermometer Traveller

DH LINE TT890

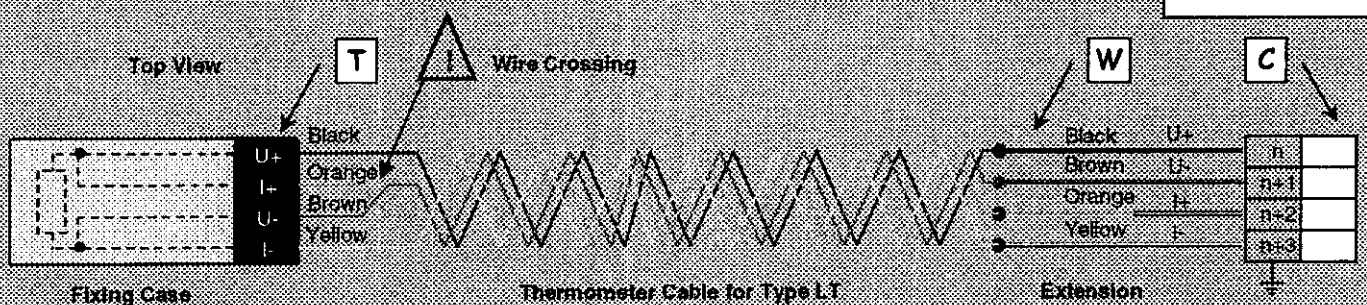
DESCRIPTION*

Part Description:	Cryogenic thermometer	Instrument Name:	
CERN Part Identifier:	HCQITELCXT-CR015260	Top Assembly:	
Other Identification:	CX_LS_X17930	Functional Equipment Identifier:	

* In accordance with LHC-QIT-QA-0002

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 = / 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]	63.36	19.51	19.60	OVL	300	IPN	Joly
Expedition	04-Sep-2003	T [redacted]	62.78	19.51	19.60	OVL	293.00	CERN	Vauthier
Reception		T W C							
CABLING	09-AUG. 04	[redacted] C	62.82	103.39	102.13	OVL	292.8	LBNL	ANDERSON
		T W C							
BEFORE MOUNTING	5-11-05	T W C		103	102	OPEN			W.J.
AFTER MOUNTING	5-12-05	T W C		103	102	OPEN			W.J.
AFTER SOLD.	5-12-05	T W C		165	166	OPEN			W.J.
		T W C							
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