CONFIDENTIAL

PIRELLI

Travel Documents

7500 A DFLX 22

Contract No. 6499152
Customer. Lawrence Berkeley National Laboratory

- Materials Specifications
  - Copper
  - HTS Material
  - Bellows
  - Stainless Steel Tubes

- Factory test reports
  - Pressure test
  - Leak test
  - Voltage test
  - Instrumentation checks
  - Cryogenic envelope vacuum tightness certificate

- Routing
  - Signed copies of routings where appropriate.

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Please sign off all procedures immediately after completion

Manufacturing Routing

Contract No. **6499152**
Customer Lawrence Berkeley National Laboratory

Current Lead ID	***7500 A DFLX 2 2*** ***Pirelli Cables Ltd, UK*** ***LHC-DFLX-CA-0001*** ***28 / 01 / 2003***

Description.	Procedure No.	Iss.	Operator	Signature	Date	Comments
Assemble Resistive Assy	LBNL-Sub A	1	BRIAN JAMES	B James	08-01-03	
Assemble HTS Board Assy	LBNL-Sub H1	1	MICHAEL NAVIN	M Navin	22/1/03	
Assemble HTS Assy	LBNL-Sub H2	2	MICHAEL NAVIN	M Navin	22/1/03	
Solder Resistive Assy – Station 2	LBNL-Sub B	1	BRIAN JAMES	B James	08-01-03	
Solder Termination Assy – LBNL-Sub B	LBNL-Sub C	1	ERIC LIGHTFOOT.	E Lightfoot	15-01-03	
Insert Lead Through Assembly	LBNL-Sub C1	1	ERIC LIGHTFOOT	E Lightfoot	15-01-03	
Instrumentation Wiring (Resistive Assembly)	LBNL-Sub C2	1	DAVID ATHERTON	D. Atherton	16/1/03	
Wrap Resistive Assy with Fibreglass	LBNL-Sub C3	1	MICHAEL NAVIN	M Navin	16/1/03	
Instrumentation Wiring RTD's	LBNL-Sub C4	1	DAVID ATHERTON	D. Atherton	16/1/03.	
Insert / wire Termination Heater	LBNL-Sub C5	1				

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Manufacturing Routing

Contract No. **6499152**
Customer Lawrence Berkeley National Laboratory

Current Lead ID	7500 A DFLX 2 2 Pirelli Cables Ltd, UK LHC-DFLX-CA-0001 28 / 01 / 2003

Description	Procedure No.	Iss.	Operator	Signature	Date	Comments
Solder Rutherford Cables to Station 1	LBNL-Sub D	1	MICHAEL NAVIN	M Navin	22/1/03	
Solder LBNL-Sub D to HTS Assy (LBNL-Sub H1)	LBNL-Sub D1	1	MICHAEL NAVIN	M Navin	22/1/03	
Assemble LIA Insulator	LBNL-SubCE1	1	ANTHONY WILLIAMS	Williams	04/11/02	
Attach Cryogenic Envelope to LBNL-Sub C5	LBNL-Sub E	1	MW BROWN	MW Brown	20/1/03	
Solder LBNL-Sub D1 to LBNL-Sub E	LBNL-Sub E1	1	RN EATON	R.N. Eaton	21/1/03	
Instrumentation Wiring (HTS Assembly)	LBNL-Sub E2	1	DAVID ATHERTON	D. Atherton	22/1/03	
Insert Top Hat	LBNL-Sub F	1	D. SPILLER	DMS	28/01/03	
Pressure Test / He Leak Test	LBNL-Test S Draft-1	1	GAVIN ANDERSON	Gavin Anderson	21/1/03	FLANGE NO 25
Voltage Test	LBNL-Test T Draft-1	1	GAVIN ANDERSON	Gavin Anderson	21/1/03	

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Manufacturing Routing

Contract No. **6499152**
Customer Lawrence Berkeley National Laboratory

Current Lead ID	***7500 A DFLX 2 2*** ***Pirelli Cables Ltd, UK*** ***LHC-DFLX-CA-0001*** ***28/01 / 2003***

Description.	Procedure No.	Iss.	Operator	Signature	Date	Comments
Instrumentation Check	LBNL-Test U Draft-1	1	DAVID ATHERTON	D. Ath	11/2/03	

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Please sign off all procedures immediately after completion

Testing Schedule

Contract No. **6499152**
Customer Lawrence Berkeley National Laboratory

Current Lead ID	***7500 A DFLX, 2 2*** [redacted] ***Pirelli Cables Ltd, UK*** ***LHC-DFLX-CA-[redacted]01*** ***28 /01 / 2003*** [redacted]

Specification No.	Item	Spec.	Measured (If applicable)	Signature	Date	Comments
#M923B	Dimensional Conformity to Engineering Drawings					
	Top Flange to LBNL seal	560-562mm				
	Seal Flange OD	130 mm				
	HTS to LBNL Seal	445-446 mm				
#M923B (3.9)	Pressure test with N_2 gas using LBNL supplied chamber		✓	GA	21/01/03	
#M923B (3.9)	Leak Check with He gas	$< 1 \times 10^{-8}$ (Torr.l.s^{-1})	1.1×10^{-7}	GA	21/01/03	
#M923B (3.3)	Voltage test using LBNL supplied chamber	< 50μA	[illegible] μA	GA	21/01/03	
#M923B (3.15)	Instrumentation Check		✓	DA	11/2/03	
	Voltage taps (1)		✓	DA	11/2/03	
	Voltage Taps (2)		✓	DA	11/2/03	
	Temperature sensors		✓	DA	11/2/03.	
	LTS Cable	LBNL				

Data sheet for high-T_c superconducting tape

NST registration number	:	0205DM10B (10m to 471m)
Type	:	ZEROME Hercules
Superconductor	:	Bi(Pb)-2223
Matrix	:	Silver Alloy
Coating	:	None

Main properties:		Average	St.dev.	Min	Max.	
Length		461				[m]
Width		3.94	± 0.02	3.89	3.98	[mm]
Thickness		226	± 2	221	234	[µm]
Critical current @ 77K, self field	25cm rolling average	58.0	± 1.62	53.8	62.6	[A]
	30m rolling average	58.0	± 0.61	56.7	59.5	[A]

NORDIC
SUPERCONDUCTOR
TECHNOLOGIES A/S

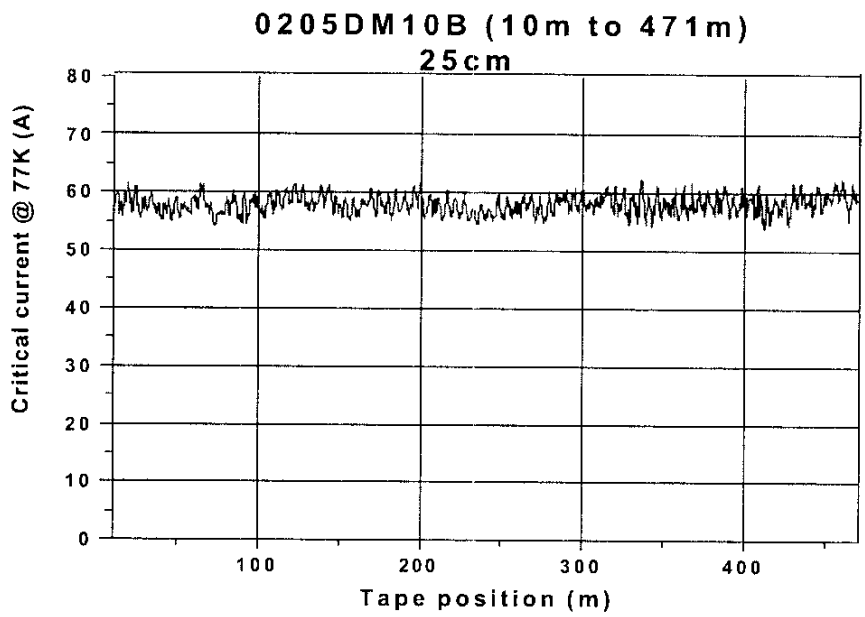
Blokken 84
DK-3460 Birkerød
Denmark
Phone +45 43 48 25 00
Fax +45 43 48 25 01
E-mail nst@nst.com
http://www.nst.com/
Reg. no. 224.707

A company
in the NKT Group

Detailed properties:

I_c is determined by measuring the remnant field set up by the tape when exposed to an external ac magnetic field (10 Hz). Ic, width and thickness are measured at 25cm resolution.

Graph Ic at 25cm



---------- Visual CMES Inspection Report ----------

Operator - Vince Parry

Part number - ULBN137

Part description - Rectangular Flange

Serial number - 25

Feature - 5.512 +/- .008

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
AXIS X	.0000	.0000	.0000	.1000	-.1000	---*---	
AXIS Y	.0000	.0000	.0000	.1000	-.1000	---*---	
DIAMETER	5.5126	5.5120	.0006	.0080	-.0080	---*---	

Feature - 5.620 +/- .008

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
AXIS X	.0000	.0000	.0000	.0080	-.0080	---*---	
AXIS Y	-.0001	.0000	-.0001	.0080	-.0080	---*---	
DIAMETER	5.6183	5.6200	-.0017	.0080	-.0080	--*+---	

Feature - 5.748 +/- .008

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
AXIS X	.0001	.0000	.0001	.0080	-.0080	---*---	
AXIS Y	-.0001	.0000	-.0001	.0080	-.0080	---*---	
DIAMETER	5.7463	5.7480	-.0017	.0080	-.0080	--*+---	

Feature - 18mm (.7086) B

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
AXIS X	4.8646	4.8650	-.0004	.0050	-.0050	---*---	
AXIS Y	.0007	.0000	.0007	.0050	-.0050	---+*--	
DIAMETER	.7078	.7086	-.0008	.0080	-.0080	---*---	

Feature - 18mm (.7086) A

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
AXIS X	-4.8646	-4.8650	.0004	.0050	-.0050	---*---	
AXIS Y	.0006	.0000	.0006	.0050	-.0050	---*---	
DIAMETER	.7079	.7086	-.0007	.0080	-.0080	---*---	

Feature - 18mm (.7086) C

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
AXIS X	-3.7421	-3.7420	-.0001	.0050	-.0050	---*---	
AXIS Y	3.1087	3.1080	.0007	.0050	-.0050	---+*--	
DIAMETER	.7078	.7086	-.0008	.0080	-.0080	---*---	

Feature - 18mm (.7086) D

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
AXIS X	-3.7421	-3.7420	-.0001	.0050	-.0050	---*---	
AXIS Y	-3.1070	-3.1080	.0010	.0050	-.0050	--*+---	
DIAMETER	.7079	.7086	-.0007	.0080	-.0080	---*---	

Feature - 18mm (.7086) E

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
AXIS X	3.7420	3.7420	.0000	.0050	-.0050	---*---	
AXIS Y	-3.1074	-3.1080	.0006	.0050	-.0050	---*---	
DIAMETER	.7080	.7086	-.0006	.0080	-.0080	---*---	

Feature - 18mm (.7086) F

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
AXIS X	3.7422	3.7420	.0002	.0050	-.0050	---*---	
AXIS Y	3.1083	3.1080	.0003	.0050	-.0050	---*---	
DIAMETER	.7079	.7086	-.0007	.0080	-.0080	---*---	

Feature - 18mm C to F (7.484)

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
LENGTH	7.4844	7.4840	.0004	.0050	-.0050	---*---	

Feature - 18mm D to E (7.484)

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
LENGTH	7.4841	7.4840	.0001	.0050	-.0050	---*---	

Feature - 18mm E to F (6.216)

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
LENGTH	6.2158	6.2160	-.0002	.0050	-.0050	---*---	

Feature - 18mm C to D (6.216)

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
LENGTH	6.2157	6.2160	-.0003	.0050	-.0050	---*---	

Feature - PCD-7.128 Hole#1

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5637	3.5640	-.0003				
ANGLE	8.9775	9.0000	-.0225				
DIAMETER	.3364	.3360	.0004	.0040	-.0040	---*---	
T.P.RADIUS			.0014	.0015			
T.P.ANGLE			268.0202				
T.P.DIAM.			.0029	.0030			

Feature - PCD-7.128 Hole#2

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5637	3.5640	-.0003				
ANGLE	26.9900	27.0000	-.0100				
DIAMETER	.3363	.3360	.0003	.0040	-.0040	---*---	
T.P.RADIUS			.0007	.0015			
T.P.ANGLE			273.3142				
T.P.DIAM.			.0014	.0030			

Feature - PCD-7.128 Hole#3

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5653	3.5640	.0013				
ANGLE	45.0073	45.0000	.0073				
DIAMETER	.3368	.3360	.0008	.0040	-.0040	---+*--	
T.P.RADIUS			.0014	.0015			
T.P.ANGLE			64.1985				
T.P.DIAM.			.0028	.0030			

Feature - PCD-7.128 Hole#4

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5651	3.5640	.0011				
ANGLE	63.0075	63.0000	.0075				
DIAMETER	.3365	.3360	.0005	.0040	-.0040	---*---	
T.P.RADIUS			.0012	.0015			
T.P.ANGLE			85.9579				
T.P.DIAM.			.0024	.0030			

Feature - PCD-7.128 Hole#5

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5644	3.5640	.0004				

ANGLE	81.0014	81.0000	.0014				
DIAMETER	.3368	.3360	.0008	.0040	-.0040	---+*--	
T.P.RADIUS			.0004	.0015			
T.P.ANGLE			93.0722				
T.P.DIAM.			.0009	.0030			

Feature - PCD-7.128 Hole#6

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5648	3.5640	.0008				
ANGLE	98.9831	99.0000	-.0169				
DIAMETER	.3366	.3360	.0006	.0040	-.0040	---+*--	
T.P.RADIUS			.0013	.0015			
T.P.ANGLE			45.7961				
T.P.DIAM.			.0026	.0030			

Feature - PCD-7.128 Hole#7

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5646	3.5640	.0006				
ANGLE	117.0018	117.0000	.0018				
DIAMETER	.3364	.3360	.0004	.0040	-.0040	---*---	
T.P.RADIUS			.0006	.0015			
T.P.ANGLE			128.0926				
T.P.DIAM.			.0012	.0030			

Feature - PCD-7.128 Hole#8

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5645	3.5640	.0005				
ANGLE	134.9775	135.0000	-.0225				
DIAMETER	.3366	.3360	.0006	.0040	-.0040	---+*--	
T.P.RADIUS			.0015	.0015			
T.P.ANGLE			66.2310				
T.P.DIAM.			.0030	.0030			

Feature - PCD-7.128 Hole#9

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5643	3.5640	.0003				
ANGLE	153.0020	153.0000	.0020				
DIAMETER	.3368	.3360	.0008	.0040	-.0040	---+*--	
T.P.RADIUS			.0004	.0015			
T.P.ANGLE			173.5103				
T.P.DIAM.			.0007	.0030			

Feature - PCD-7.128 Hole#10

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5645	3.5640	.0005				
ANGLE	170.9848	171.0000	-.0152				
DIAMETER	.3361	.3360	.0001	.0040	-.0040	---*---	
T.P.RADIUS			.0011	.0015			
T.P.ANGLE			107.9625				
T.P.DIAM.			.0021	.0030			

Feature - PCD-7.128 Hole#11

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5633	3.5640	-.0007				
ANGLE	188.9907	189.0000	-.0093				
DIAMETER	.3361	.3360	.0001	.0040	-.0040	---*---	
T.P.RADIUS			.0009	.0015			
T.P.ANGLE			50.5887				
T.P.DIAM.			.0017	.0030			

Feature - PCD-7.128 Hole#12

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5645	3.5640	.0005				
ANGLE	207.0041	207.0000	.0041				
DIAMETER	.3361	.3360	.0001	.0040	-.0040	---*---	
T.P.RADIUS			.0006	.0015			
T.P.ANGLE			232.3438				
T.P.DIAM.			.0012	.0030			

Feature - PCD-7.128 Hole#13

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5654	3.5640	.0014				
ANGLE	224.9986	225.0000	-.0014				
DIAMETER	.3364	.3360	.0004	.0040	-.0040	---*---	
T.P.RADIUS			.0014	.0015			
T.P.ANGLE			221.4506				
T.P.DIAM.			.0027	.0030			

Feature - PCD-7.128 Hole#14

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5653	3.5640	.0013				
ANGLE	243.0059	243.0000	.0059				
DIAMETER	.3364	.3360	.0004	.0040	-.0040	---*---	
T.P.RADIUS			.0013	.0015			
T.P.ANGLE			259.1570				
T.P.DIAM.			.0027	.0030			

Feature - PCD-7.128 Hole#15

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5645	3.5640	.0005				
ANGLE	261.0049	261.0000	.0049				
DIAMETER	.3364	.3360	.0004	.0040	-.0040	---*---	
T.P.RADIUS			.0006	.0015			
T.P.ANGLE			292.8652				
T.P.DIAM.			.0012	.0030			

Feature - PCD-7.128 Hole#16

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5652	3.5640	.0012				
ANGLE	278.9800	279.0000	-.0200				
DIAMETER	.3365	.3360	.0005	.0040	-.0040	---*---	
T.P.RADIUS			.0017	.0015			.0002
T.P.ANGLE			231.7470				
T.P.DIAM.			.0034	.0030			.0004

Feature - PCD-7.128 Hole#17

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5640	3.5640	.0000				
ANGLE	296.9902	297.0000	-.0098				
DIAMETER	.3364	.3360	.0004	.0040	-.0040	---*---	
T.P.RADIUS			.0006	.0015			
T.P.ANGLE			204.1660				
T.P.DIAM.			.0012	.0030			

Feature - PCD-7.128 Hole#18

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5648	3.5640	.0008				
ANGLE	314.9935	315.0000	-.0065				
DIAMETER	.3365	.3360	.0005	.0040	-.0040	---*---	
T.P.RADIUS			.0009	.0015			
T.P.ANGLE			287.0222				
T.P.DIAM.			.0017	.0030			

Feature - PCD-7.128 Hole#19

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5653	3.5640	.0013				
ANGLE	333.0021	333.0000	.0021				
DIAMETER	.3367	.3360	.0007	.0040	-.0040	---+*--	
T.P.RADIUS			.0013	.0015			
T.P.ANGLE			338.6130				
T.P.DIAM.			.0027	.0030			

Feature - PCD-7.128 Hole#20

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5635	3.5640	-.0005				
ANGLE	350.9905	351.0000	-.0095				
DIAMETER	.3365	.3360	.0005	.0040	-.0040	---*---	
T.P.RADIUS			.0008	.0015			
T.P.ANGLE			221.2444				
T.P.DIAM.			.0015	.0030			

Feature - PCD-7.128

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
AXIS X	-.0001	.0000	-.0001				
AXIS Y	-.0001	.0000	-.0001				
DIAMETER	7.1291	7.1280	.0011	.0080	-.0080	---*---	
ROUNDNESS	.0021			.0030		+-*-	
T.P.RADIUS			.0001	.0015			
T.P.ANGLE			234.6747				
T.P.DIAM.			.0002	.0030			

Feature - 5.512 +/- .008

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
AXIS X	.0000	.0000	.0000	.0000	.0000		
AXIS Y	.0001	.0000	.0001	.0000	.0000	---+-->	.0001

CERTIFICATE OF CONFORMANCE

SHIPPED FROM: TC LTD.,
UNITS 1-6 BRIMINGTON ROAD NORTH
WHITTINGTON MOOR, CHESTERFIELD
DERBYSHIRE, S41 9BD, ENGLAND.

SALES OFFICE: TC LTD , PO BOX 130, UXBRIDGE, UB8 2YS, ENGLAND.
FAX: 01895 273540 TELEPHONE: 01895 252222
E MAIL: sales@tc.co.uk WEB SITE: http://www.tc.co.uk
Registered in England No.1125377 VAT No. GB 223 7880 55

LIVER TO:

PIRELLI CABLES LTD /P547-01
PLANT 58, COMPONENTS DIVISON
HALL LANE
PRESCOTT
MERSEYSIDE L34 5UR

OUR REFERENCE
56394/3

YOUR ORDER NUMBER
4500126405

ACCOUNT NUMBER	DESPATCH NUMBER	DESPATCH DATE
/P574-01	D/ 56394/3	13/11/02

DATE ORDER RECEIVED	ESTIMATED SHIP DATE	ORDER ANALYSIS DATA
10/07/02	13/11/02	TH

PRODUCT CODE	DESCRIPTION	QUANTITY	UNITS	REMARKS
1-5	RTD ASSEMBLY TYPE 16 16-1-3.0-4-25-CE2A-R100-A-2 MTRS RH17 DESPATCH ON AND NOT BEFORE 13/11/02 VIA OVERNIGHT CARRIER CUSTOMER CONTACT IS DARREN SHEPHERD YOUR CONTACT AT TC IS TOM HALL-JONES	30	EACH	We certify that the goods supplied against this certificate of conformance have been inspected and tested in accordance with our normal test procedures and fully comply with the description shown, our published specification and the relevant British Standards, details of which are available on request.
WBA	PACKING, CARRIAGE & INSURANCE	1	LOT	
	E&OE			

Customer Agreed Concession Reference (if applicable) 22026

TC 15

Inspector's Signature J Harrison

Date 22/10/02

damage or shortage must be reported in writing, or by fax within 7 days of receipt of ds. Customers intending to return goods to us (for any reason what-so-ever) must first ain our written agreement with instructions as to which factory site the goods are to be rned to. We accept no liability for shortage, damage or non-receipt, in any way, for goods ng returned.

Vacweld

Vacweld Ltd
Folgate House, Folgate Road,
North Walsham, Norfolk, NR28 0AJ, England.
Tel: (01692) 500000 Fax: (01692) 500188
Email:sales@vacweld.co.uk
Web Site: www.vacweld.co.uk

CERTIFICATION OF CONFORMITY

This is to certify the components listed below have been manufactured to their relevant drawing numbers, unless otherwise agreed. The components have been welded, cleaned and leak checked to UHV standards.

ORDER NO: 4500137782

ADVICE NOTE NO: 633

QTY: 4 **CONCESSIONS:** -

PART/DRAWING NO: ULBNL12 **ISSUE:** -

DESCRIPTION: CRYOGENIC ENVELOPE

SERIAL NO: -

CERTIFIED BY: Mr. D HARBOUR

POSITION: DIRECTOR **DATE:** 20th DECEMBER 2002

PRINT NAME: D HARBOUR **SIGNED:**

Specialist welding and instrument-making for science and industry

Certificate of Conformity TC006110/5

issued by

Brockington & Scott Ltd.

Teilo Works, Pontarddulais, Swansea, SA4 8RP, UK
Telephone : **44 (0)1792 882591 Fax : **44 (0)1792 885843

Customer : Pirelli Cables Limited Pirelli Components Division PO Box 4 Hall Lane Prescot L34 5UR	Customer's Order N° : 4500126265
We certify that the undermentioned items have been pressure tested, and inspected for leaks. We further certify that the materials used in the production of the bellows pieces were released, and are traceable to material certification to 3.1.B. No deviation has been made from our approved design drawings and / or our quality plan except as follows..... Dimensional Checks.....	NO LEAKS OR DISTORTIONS AT 0.5 BAR PRESSURE. NONE. CORRECT.

DESCRIPTION OF SUPPLIES

Our drawing N°.	Customer Ref :	Batch N°.	Order Qty :	Despatch Qty :
M52211 issue 1	60NB Conset	B000329	10	10

For Brockington & Scott Limited

J.Ellis
16 August 2002

Inspection Stamp

BS 6

Certificate of Conformity TC 006110

issued by

Brockington & Scott Ltd.

Teilo Works, Pontarddulais, Swansea, SA4 8RP, UK
Telephone : **44 (0)1792 882591 Fax : **44 (0)1792 885843

Customer : Pirelli Cables Ltd. Pirelli Components Division P.O. Box 4, Hall Lane, PRESCOT. Merseyside. L34 5UR.	Customer's Order N° : 4500126265
We certify that the undermentioned items have been pressure tested, and inspected for leaks.	NO LEAKS OR DISTORTIONS.
We further certify that the materials used in the production of the bellows pieces were released, and are traceable to material certification to 3.1.B.	
No deviation has been made from our approved design drawings and / or our quality plan except as follows.....	NONE.
Dimensional Checks.....	CORRECT.

DESCRIPTION OF SUPPLIES

Our drawing N°.	Customer Ref :	Batch N°.	Order Qty :	Despatch Qty :
M52211	60 N.B. Conset	000330	10	10

For Brockington & Scott Limited

J.Ellis
29 August 2002

Inspection Stamp

BS 6

VARIAN

Varian Vacuum Technolgies
Varian S.p.A.
Via F.lli Varian, 54
10040 Leinì (Torino)Italy

Phone: +39-011-9979-111
Fax: +39-011-9979-350
www.varianinc.com

Date September 17, 2002

CERTIFICATO DI CONFORMITA'
AFFIDAVIT OF COMPLIANCE
TEST REPORT

Si certifica che il seguente materiale:
We certify that the following material:

Part number and description Numero di parte e descrizione	Order Ordine	Delivery Prelievo	Quantity Quantità
FG0275CI GASKET,CU,FOR 2.75"CFF,10/PK	**318393991**	**310907508**	8
F06000000NC4 FLANGE,CF,6.00"X0.00",NR,CBH,304L SST	**318393991**	**310902929**	20
F06000000NC4 FLANGE,CF,6.00"X0.00",NR,CBH,304L SST	**318393991**	**310908849**	20
FG0600CI GASKET,CU,FOR 6.0"CFF,10/PK	**318393991**	**31090758**	3
F06000000RM4 FLANGE,CF,6.00"X0.00",ROT,M8,TAP	**318393991**	**310917050**	20
F06000000RM4 FLANGE,CF,6.00"X0.00",ROT,M8,TAP	**318393991**	**310917050**	20

PURCHASE ORDER REF. 4500126836

E' stato costruito secondo la norme applicabili, incluse le norme ISO 9001, ed è conforme a quanto richiesto dall'ordine d'acquisto e dalle nome e/o disegni da questo ordine citati. Le informazioni relative sono a disposizione per eventuali ispezioni.

Was manufactured in accordance with applicable specification, ISO 9001 norms included, and is in conformance with the requirements, specifications and drawing applicable to that purchase order. Test report may be examined upon request.

Firma
Authorized-Signature

CLEANING PROCEDURE FOR STAINLESS STEEL COMPONENTS USED IN ULTRA HIGH VACUUM APPLICATIONS

PRE-WELDING CLEANING:

- REMOVE EXCESS GREASE AND OIL FROM COMPONENT USING PAPER OR CLOTH WIPERS, TAKING EXTRA CARE TO ENSURE HOLES ARE CLEAR OF CUTTING OIL, GREASE AND SWARF
- ULTRASONIC IN HOT DECON 90 OR SIMILAR DEGREASANT FOR 30 MINUTES
- RINSE ITEM IN HOT RUNNING WATER TO REMOVE DEGREASANT
- BLOW OFF EXCESS WATER WITH OXYGEN FREE NITROGEN
- ULTRASONIC IN FERROTONE SOLUTION FOR 30 MINUTES
- RINSE UNDER COLD RUNNING WATER TO REMOVE FERROTONE
- BLOW OFF WITH OXYGEN FREE NITROGEN
- ULTRASONIC IN DE-IONISED WATER FOR 10 MINUTES
- BLOW OFF WITH OXYGEN FREE NITROGEN
- OVEN DRY AT 90 – 120 DEG C FOR 30 MINUTES

WELDING:

- WIPE AREA TO BE WELDED WITH ISO PROPONOL OR SIMILAR, USING A LINT FREE TISSUE
- ENSURE A GOOD ARGON PURGED SYSTEM DURING THE WELD PROCEDURE

CLEANING PROCEDURE CONTINUED

POST- WELDING CLEANING:

- SCOTCHBRIGHT MANUALLY TO REMOVE WELD BURN, POLARIS POWDER CAN BE USED TO AID BURN REMOVAL
- ULTRASONIC IN HOT DECON 90 OR SIMILAR FOR 30 MINUTES
- RINSE OFF EXCESS UNDER HOT RUNNING WATER
- BLOW OFF USING OXYGEN FREE NITROGEN
- ULTRASONIC IN BOILING DE-IONISED WATER FOR 30 MINUTES
- BLOW OFF USING OXYGEN FREE NITROGEN
- OVEN DRY AT 90 – 120 DEG C FOR 12 HOURS

PACKAGING

- HANDLE WITH CARE USING LINT FREE & DUST FREE GLOVES
- COVER ALL FLANGE FACES WITH TIN FOIL
- PROTECT FLANGE USING A SUITABLE CAP
- PLACE ITEM IN 2 PLATIC BAGS AND HEAT SEAL
- EACH ITEM MUST BE CLEARLY MARKED ON THE OUTSIDE WITH THE FOLLOWING:

  A: UHV CLEAN COMPONENTS HANDLE WITH CARE AND GLOVES

  B: DRAWING NUMBER

  C: ISSUE NUMBER

  D: ORDER NUMBER

Ceramaseal
A division of CeramTec
1033 State Route 20
New Lebanon, NY 12125

To: ***PIRELLI CABLES LTD.***

This is to certify that ***8*** pieces of Ceramaseal part number ***4511-02-CF***, your part number ***NA***; shipped against your purchase order number ***4500126247***, on ***8/30/02***, met all applicable requirements of current specifications, drawings and exceptions listed on the above purchase order and that appropriate test results are on file. Shipped on Ceramaseal sales order number ***62361***. Manufactured on Ceramaseal work order number ***101764***.

Company Official | Title

Tel: 518-794-7800 • 800-752-SEAL

Fax: 518-794-8080 • www.ceramaseal.com

Vacweld

Vacweld Ltd
Folgate House, Folgate Road,
North Walsham, Norfolk, NR28 0AJ, England.
Tel: (01692) 500000 Fax: (01692) 500188
Email:sales@vacweld.co.uk
Web Site: www.vacweld.co.uk

CERTIFICATION OF LEAK TEST

ORDER NO: 4500133041

ADVICE NOTE NO: 000000518

QTY: 40 CONCESSIONS: -

PART/DRAWING NO: UBNL70Z ISSUE: 2

DESCRIPTION: REDUCER ASSY

SERIAL NO: -

VALVE NO: -

CALIBRATED LEAK RATE: Within 1×10^{-11} mbar l/s

LEAK CHECKED/VACUUM BAKED BY: Mr. D HARBOUR

POSITION: DIRECTOR DATE: 17th OCTOBER 2002

PRINT NAME: D HARBOUR SIGNED:

Specialist welding and instrument-making for science and industry

Bodycote Group

Member of Bodycote International Plc

TEST CERTIFICATE/ADVICE NOTE
CERTIFICATE OF CONFORMITY
APPROVED CERTIFICATE

Delete as appropriate

FROM: BODYCOTE HEAT TREATMENTS LTD.
"TINNY INDUSTRIAL ESTATE
STERSEACH
CAMBRIDGE
CB5 9QR
VAT No.: GB 593 6330 22 TEL: 01223 860741
FAX No.: 01223 863498

INVOICE ADDRESS

PIRELLI CABLES LIMITED
COMPONENTS DIVISION
PO BOX 4, HALL LANE,
PRESCOT, MERSEYSIDE.
L34 5UR.

DELIVERY ADDRESS

PIRELLI CABLES LIMITED
COMPONENTS DIVISION
PO BOX 4, HALL LANE,
PRESCOT, MERSEYSIDE.
L34 5UR.

SERIAL NUMBER 0442709 PAGE: 1 DATE: 01/11/02
ORDER ENTRY DATE: 29/10/02
TRANSPORT DETAILS :
WORKS ORDER No. : NIL
INCOMING ORDER No. : 0375074
INCOMING CERT No. : 4500134279
MATERIAL SPEC/ISSUE No. : COPPER

LINE No.	JOB No.	DESCRIPTION	UNIT	QUANTITY
001	6500	Part No. TRANSPORT CHARGES	LOAD ITEMS	1.000 1.000
002	0080	LOWER SEAL ASSY Part No. ULHNL-69 VACUUM BRAZE TO OUR DATA CARD 080W Iss. 02 BRAZE NS0 REQ. No. 10786431	EACH ITEMS	10.000 10.000

Furnace Chge 4/8501

Helium Leak Checked – Acceptable.

14-11-02 N 75

CERTIFICATE DECLARATION

Certified that the whole of the supplies/materials detailed hereon have been processed, inspected, tested and – unless otherwise stated – conform in all respects with the requirements of the contract, order or specifications.
The quality control arrangements adopted in respect of these supplies/materials have accorded with the conditions applicable to the following approvals:

BS EN ISO 9002 APPROVAL LRQ0855106

Certified that unless otherwise stated above, the whole of the above mentioned materials and/or parts have been processed and inspected in accordance with the terms of the contract/order applicable thereto and conform fully to the standards/specification quoted hereon and the requirements of the Civil Aviation Authority.

For and on behalf of:

BODYCOTE HEAT TREATMENTS LTD.

Signed: Insp. Stamp 75

LLANDAFF ENGINEERING

PAPERMILL ROAD,
CARDIFF. CF11 8PH UK
TEL: 029 2083 8300
FAX: 029 2056 5125
FAX: 029 2056 3523

Web Site : WWW.LLANDAFF.COM

QUALITY ASSURED FIRM ISO 9002 SGS

NATIONAL ACCREDITATION OF CERTIFICATION BODIES

LLANDAFF ENGINEERING COMPANY LTD REGISTERED NUMBER 798334 LONDON VAT NUMBER 134367277

Certificate Of Conformity

Deliver to

Pirelli Cables Components Unit
PLANT 58, COMPONENTS DIVISION
PIRELLI CABLES LIMITED
HALL LANE
PRESCOTT, MERSEYSIDE
L34 5UR

Invoice to

Pirelli Cables Components Unit
PO Box 4
Hall Lane
Prescot
Merseyside
L34 5UR

Our VAT reg

Delivery no
28042

Account code
BICC00184

Delivery date
9/20/02

Item	Part no	Your part no	Your order no	Qty ordered	Qty balance	Qty despatched
1	PICALBNL42 6" CONFLAT FLANGE TO DRG. LBNL42 Complete Order Item		4500131111 UOM : EACH Our order : 10223/1	20.000	0.000	20.000

DELIVERED BY PARCELINE

Signature

The above items have been manufactured using Llandaff Engineering's Quality Management system's accredited to BS.EN.ISO 9002 (1994) and unless stated comply in all respects to your requirements.

LLANDAFF ENGINEERING
PAPERMILL ROAD,
CARDIFF. CF11 8PH UK
TEL: 029 2083 8300
FAX: 029 2056 5125
FAX: 029 2056 3523
Web Site : WWW.LLANDAFF.COM

LLANDAFF ENGINEERING COMPANY LTD. REGISTERED NUMBER 798364 LONDON VAT NUMBER 134367277

Certificate Of Conformity

Our VAT reg

Deliver to
Pirelli Cables Components Unit
PLANT 58, COMPONENTS DIVISION
PIRELLI CABLES LIMITED
HALL LANE
PRESCOTT, MERSEYSIDE
L34 5UR

Invoice to
Pirelli Cables Components Unit
PO Box 4
Hall Lane
Prescot
Merseyside
L34 5UR

Delivery no
28032

Account code
BICC00184

Delivery date
19/09/2002

Item	Part no	Your part no	Your order no	Qty ordered	Qty balance	Qty despatched
1	PICALBNL137 SUPPORT ROD OUTER TO DRG. LBNL137 Complete Order Item		4500126409 UOM : EACH Our order : 10091/4	160.000	0.000	160.000
2	PICALBNL13 STATION 2 SEALING RING TO DRG. LBNL13 Complete Order Item		4500126409 UOM : EACH Our order : 10091/15	40.000	0.000	40.000
3	PICALBNL35 LIA INSULATOR FLANGE TO DRG. LBNL35 Complete Order Item		4500126409 UOM : EACH Our order : 10091/17	40.000	0.000	40.000

DELIVERED BY PARCELINE

Signature

The above items have been manufactured using Llandaff Engineering's Quality Management system's accredited to BS.EN.ISO 9002 (1994) and unless stated comply in all respects to your requirements.

LLANDAFF ENGINEERING

PAPERMILL ROAD,
CARDIFF, CF11 8PH UK
TEL: 029 2083 8300
FAX: 029 2056 5125
FAX: 029 2056 3523

Web Site : WWW.LLANDAFF.COM

LLANDAFF ENGINEERING COMPANY LTD. REGISTERED NUMBER 798364 LONDON VAT NUMBER 134337277

Certificate Of Conformity

Deliver to

Pirelli Cables Components Unit
PLANT 58, COMPONENTS DIVISION
PIRELLI CABLES LIMITED
HALL LANE
PRESCOTT, MERSEYSIDE
L34 5UR

Invoice to

Pirelli Cables Components Unit
PO Box 4
Hall Lane
Prescot
Merseyside
L34 5UR

Our VAT reg

Delivery no
28196

Account code
BICC00184

Delivery date
10/4/02

Item	Part no	Your part no	Your order no	Qty ordered	Qty balance	Qty despatched
1	PICALBNL14 UPPER SEAL TO DRG. LBNL14 Complete Order Item		4500126409 UOM : EACH Our order : 10091/7	40.000	0.000	40.000

DELIVERED BY PARCELINE

Signature

The above items have been manufactured using Llandaff Engineering's Quality Management system's accredited to BS.EN.ISO 9002 (1994) and unless stated comply in all respects to your requirements.

LLANDAFF ENGINEERING
PAPERMILL ROAD,
CARDIFF. CF11 8PH UK
TEL: 029 2083 8300
FAX: 029 2056 5125
FAX: 029 2056 3523
Web Site : WWW.LLANDAFF.COM

LLANDAFF ENGINEERING COMPANY LTD. REGISTERED NUMBER 798364 LONDON VAT NUMBER 134367277

Certificate Of Conformity

Deliver to
Pirelli Cables Components Unit
PLANT 58, COMPONENTS DIVISION
PIRELLI CABLES LIMITED
HALL LANE
PRESCOTT, MERSEYSIDE
L34 5UR

Invoice to
Pirelli Cables Components Unit
PO Box 4
Hall Lane
Prescot
Merseyside
L34 5UR

Our VAT reg

Delivery no
28149

Account code
BICC00184

Delivery date
9/27/02

Item	Part no	Your part no	Your order no	Qty ordered	Qty balance	Qty despatched
1	PICALBNL138 SUPPORT ROD INNER TO DRG. LBNL138 Complete Order Item		4500126409 UOM : EACH Our order : 10091/5	160.000	0.000	160.000
2	PICALBNL68 THERMOMETER SLEEVE TO DRG. LBNL68 Complete Order Item		4500126409 UOM : EACH Our order : 10091/11	10.000	0.000	10.000

DELIVERED BY PARCELINE

Signature

The above items have been manufactured using Llandaff Engineering's Quality Management system's accredited to BS.EN.ISO 9002 (1994) and unless stated comply in all respects to your requirements.

LLANDAFF ENGINEERING

PAPERMILL ROAD,
CARDIFF. CF11 8PH UK
TEL: 029 2083 8300
FAX: 029 2056 5125
FAX: 029 2056 3523

Web Site : WWW.LLANDAFF.COM

QUALITY ASSURED FIRM ISO 9002 SGS

NATIONAL ACCREDITATION OF CERTIFICATION BODIES

LLANDAFF ENGINEERING COMPANY LTD. REGISTERED NUMBER 793364 LONDON VAT NUMBER 134367277

Certificate Of Conformity

Deliver to

Pirelli Cables Components Unit
PLANT 58, COMPONENTS DIVISION
PIRELLI CABLES LIMITED
HALL LANE
PRESCOTT, MERSEYSIDE
L34 5UR

Invoice to

Pirelli Cables Components Unit
PO Box 4
Hall Lane
Prescot
Merseyside
L34 5UR

Our VAT reg

Delivery no
27810

Account code
BICC00184

Delivery date
28/08/02

Item	Part no	Your part no	Your order no	Qty ordered	Qty balance	Qty despatched
1	PICALBNL42 6" CONFLAT FLANGE TO DRG. LBNL42 Complete Order Item *Delivered by Parceline*		4500129463 **UOM** : EACH **Our order** : 10156/1	20.000	0.000	20.000

CONFIRMATION

Signature

The above items have been manufactured using Llandaff Engineering's Quality Management system's accredited to BS.EN.ISO 9002 (1994) and unless stated comply in all respects to your requirements.

LLANDAFF ENGINEERING

PAPERMILL ROAD,
CARDIFF. CF11 8PH UK
TEL: 029 2083 8300
FAX: 029 2056 5125
FAX: 029 2056 3523

Web Site : WWW.LLANDAFF.COM

LLANDAFF ENGINEERING COMPANY LTD. REGISTERED NUMBER 798364 LONDON VAT NUMBER 134367277

Certificate Of Conformity

Deliver to

Pirelli Cables Components Unit
PLANT 58, COMPONENTS DIVISION
PIRELLI CABLES LIMITED
HALL LANE
PRESCOTT, MERSEYSIDE
L34 5UR

Invoice to

Pirelli Cables Components Unit
PO Box 4
Hall Lane
Prescot
Merseyside
L34 5UR

Our VAT reg

Delivery no
28137

Account code
BICC00184

Delivery date
9/27/02

Item	Part no	Your part no	Your order no	Qty ordered	Qty balance	Qty despatched
1	PICALBNL32 6" ROTATABLE CONFLAT FLANGE TO DRG. LBNL32 Complete Order Item		4500131112 **UOM** : EACH **Our order** : 10243/1	40.000	0.000	40.000

DELIVERED BY PARCELINE

Signature

The above items have been manufactured using Llandaff Engineering's Quality Management system's accredited to BS.EN.ISO 9002 (1994) and unless stated comply in all respects to your requirements.

DMS

FAO A JONES 2 SHEETS 1 OF 2

TOTAL P. 02

COPER AND BRASS MILLS SEVOJNO

UŽICE
YUGOSLAVIA

CERTIFICATE

N° 428.-

DATE 11.05.01.

CUSTOMER: ~~EAST POINT~~ THE METAL CENTRE

FORM: Copper sheshs — Quantity Net: 8.385 kg, Btt: 8.913 kg.

STANDARD: BS EN 1652 — Material — Temper

CUSTOMER'S REF. 7358 — Export ref. 16943/87-A

Sample N°	CHEMICAL COMPOSITION, (%) Cu	P				MECHANICAL, METALLOGRAPHICAL AND TEHNOLOGICAL PROPERTIES Tensile strenght Rm	Yield strength Rp	Elongation % 10	Hardness scale	Average Grain size (mm)	
	CW 024A 2,0 x 1000 x 2000 mm = 2.173 kg.										
1623/1	99,90	0,026				277,2		37,6			
2						284,5		36,4			
3						275,9		38,0			121260-01-04
	CW 024A 3,0 x 1000 x 2000 mm = 3.125 kg.										
1644/1	99,90	0,022				274,8		37,4			
2						271,6		37,6			
3						276,6		37,0			121261-01-06
4						272,9		38,6			
	CW 024A 1,5 x 1000 x 2000 mm = 1.552 kg.										
1683/1	99,90	0,025				266,7		39,6			
2						271,0		40,0			121262-01-03
	CW 024A 0,55 x 1000 x 2000 mm = 1.530 kg.										
1704/1	99,90	0,022				272,6		39,8			
2						272,0		38,4			121263-01-03

- 380 -
3.1.b.

CONTROL'S DEPARTMENT

T. Cvijanović D. Jovičić

FO.KK.10.110

INVOICE TO:

LLANDAFF ENGINEERING LTD
PAPERMILL ROAD
ELY
CARDIFF. SOUTH GLAM.

CF1 8UH DELIVERY DUE : 25/06/01

DELIVERY TO:

LLANDAFF ENGINEERING LTD
PAPERMILL ROAD
ELY
CARDIFF. SOUTH GLAM.
1/1
CF1 8UH

IRF No.	ACCT No.	CUSTOMER ORDER REF.	DATE	PAYMENT TERMS
		CFN20194		

BG BGDF

0143554

PRODUCT CODE	QUANTITY	DESCRIPTION	PRICE PER UNIT	VAT CODE	No. OF UNITS	LINE VALUE
010999	6.00 SHT	BS.EN1653:1998/BS2870:1980/C105 CU SHT CW024A/C106 H/H 2000mm X 1000mm X 2.0mm Batch ID---- Cast No.--- Cert.No.--- DA-- 131280- 1- 0 1623/1 438 B			218.00 S	

P/NO R300.762

GRN 26777

RECEIVER AND INSPECTION ADVICE FOR ACCEPTANCE

W Wdy 25.6.01 AS ABOVE

CUSTOMER COMPANY

Certified that the supplies detailed hereon have been subject to the procedures of our ISO 9002 registered Quality System and fully comply with the requirements of the contract or purchase order, unless otherwise stated

PMD (UK) LIMITED

Broad Lane, Coventry CV5 7AY
Tel: (02476) 466691, Fax: (02476) 473034
e-mail: sales@pmdgroup.co.uk

Delivery Note / Certificate of Conformity

BIC

Delivery / C of C Note No.	83439 / 0
Date	13/11/2002
Customer Order No.	4500134976
Customer Advice Note No.	
Incoming C of C No.	10785061
Delivery	Courier
Batch No.	83439 / 0

Cables Ltd.
onents Unit
x 4.
ester Road
t
yside
JR

tity	Part Number / Description	Process Comments
10.0	LBNL69V Lower Seal Braze Assy.	Bright Nickel 10.0 Microns.

396321

WE NOW CONSIDER THIS ORDER COMPLETE

hat the supplies / services detailed hereon have been inspected in accordance with the conditions and requirements of the purchase order and unless otherwise noted above, conform cts to the specification(s), drawing(s) relevant thereto.

on behalf of PMD (UK) Limited

Received on behalf of

Pirelli Cables Ltd.

Signature

Print Name

BS EN ISO 9001 1994

CERTIFICATE NUMBER FM 093

see over

PMD (UK) LIMITED

Broad Lane, Coventry CV5 7AY
Tel: (02476) 466691, Fax: (02476) 473034
e-mail: sales@pmdgroup.co.uk

Delivery Note / Certificate of Confo

Delivery / C of C Note No.	83438 / 0
Date	13/11/2002
Customer Order No.	4500134976
Customer Advice Note No.	
Incoming C of C No.	10785059
Delivery	Courier
Batch No.	83438 / 0

Pirelli Cables Ltd.
Components Unit
PO Box 4
Manchester Road
Prescot
Merseyside
L34 5UR

Quantity	Part Number / Description	Process Comments
10.0	LBNL31V Termination assy.	Bright Nickel 10.0 Microns

WE NOW CONSIDER THIS ORDER COMPLE

Certified that the supplies / services detailed hereon have been inspected and tested in accordance with the conditions and requirements of the contract or purchase order and unless otherwise noted above, conform in all respects to the specification(s), drawing(s) relevant thereto.

Signed for on behalf of PMD (UK) Limited

Received on behalf of

Pirelli Cables L

Signature

Print Name

BS EN ISO 9001 1994

CERTIFICATE NUMBER FM 093

For Conditions see over

PMD (UK) LIMITED

Broad Lane, Coventry CV5 7AY
Tel: (02476) 466691, Fax: (02476) 473034
e-mail: sales@pmdgroup.co.uk

Delivery Note / Certificate of Conformity

BIC

Delivery / C of C Note No.	83575 / 0
Date	14/11/2002
Customer Order No.	4500135403
Customer Advice Note No.	
Incoming C of C No.	
Delivery	
Batch No.	83575 / 0

Pirelli Cables Ltd.
Components Unit
PO Box 4
Manchester Road
Prescot
Merseyside
L34 5UR

Quantity	Part Number / Description	Process Comments
10.0	LBNL02AG	Silver 10.0 - 15.0 Microns
	Station 1	

347259

WE NOW CONSIDER THIS ORDER COMPLETE

rtified that the supplies / services detailed hereon have been inspected
d tested in accordance with the conditions and requirements of the
ntract or purchase order and unless otherwise noted above, conform in
all respects to the specification(s), drawing(s) relevant thereto.

gned for on behalf of PMD (UK) Limited

Received on behalf of

Pirelli Cables Ltd.

Signature

Print Name

BS EN ISO 9001 1994

CERTIFICATE NUMBER FM 093

Conditions see over

PMD (UK) LIMITED

Broad Lane, Coventry CV5 7AY
Tel: (02476) 466691, Fax: (02476) 473034
e-mail: sales@pmdgroup.co.uk

Delivery Note / Certificate of Conformity

BIC

Delivery / C of C Note No.	83576 / 0
Date	14/11/2002
Customer Order No.	4500135403
Customer Advice Note No.	
Incoming C of C No.	
Delivery	BP - Next Day
Batch No.	83576 / 0

Pirelli Cables Ltd.
Components Unit
PO Box 4
Manchester Road
Prescot
Merseyside
L34 5UR

Quantity	Part Number / Description	Process Comments
10.0	LBNL19AG Station 1 Fixing Clamps	Silver 10.0 - 15.0 Microns

397259

WE NOW CONSIDER THIS ORDER COMPLETE

ertified that the supplies / services detailed hereon have been inspected
nd tested in accordance with the conditions and requirements of the
ontract or purchase order and unless otherwise noted also certify in
all respects to the specification(s), drawing(s) relevant thereto.

gned for on behalf of PMD (UK) Limited

Received on behalf of

Signature

Pirelli Cables Ltd.

Print Name

BS EN ISO 9001 1994

CERTIFICATE NUMBER FM 093

Conditions see over

Bodycote Group

Member of Bodycote International Plc

[illegible]
[illegible] ESTATE
WATERLOO
CAMBRIDGE

V.A.T. No.: GB 592 6430 02 TEL: 0[illegible] 93[illegible]
FAX No.: 01223 063490 01223 060741

INVOICE ADDRESS

PURELL CABLES LIMITED
COMPONENTS DIVISION
PO BOX 4, HALL LANE,
PRESCOT, MERSEYSIDE.
L34 5UR.

DELIVERY ADDRESS

PURELL CABLES LIMITED
COMPONENTS DIVISION
PO BOX 4, HALL LANE,
PRESCOT, MERSEYSIDE.
L34 5UR.

SERIAL NUMBER 0442701 PAGE: 1 DATE: 01NOV97
ORDER ENTRY DATE: 29OCT97

TRANSPORT DETAILS : ONE
WORKS ORDER No. : 0275066
INCOMING ORDER No. : 4500124270
INCOMING CERT No. :
MATERIAL SPEC/ISSUE No.: COPPER

LINE No.	JOB No.	DESCRIPTION	UNIT	QUANTITY
001	0090	TERMINATION ASSY Part No. ULM4-31 VACUUM BAKE TO OUR DATA CERD 0090 Issue 02 INNER 850 RCTL No. 10786424	EACH ITEMS	15.000 10.000
002	6500	Part No. TRANSPORT CHARGES	LOAD ITEMS	1.000 1.000

Furnace Chge 4/8501

CERTIFICATE DECLARATION

Certified that the whole of the supplies/materials detailed hereon have been processed, inspected, tested and - unless otherwise stated - conform in all respects with the requirements of the contract, order or specifications.
The quality control arrangements adopted in respect of these supplies/materials have accorded with the conditions applicable to the following approvals:

TO EN ISO 9001 [illegible]

Certified that unless otherwise stated above, the whole of the above mentioned materials and/or parts have been processed and inspected in accordance with the terms of the contract/order applicable thereto and conform fully to the standards/specification quoted hereon and the requirements of the Civil Aviation Authority.

For and on behalf of:

BODYCOTE HEAT TREATMENTS LTD.

Signed: M Dunk

Date: 1-11-97

Insp. Stamp 75

DISTRIBUTION: White - Customer; Pink - Inspector; Blue - File; Green - Signature & Return

Standard Contract Conditions overleaf apply

Issue 2 1/9/97

Vacweld

Vacweld Ltd
Folgate House, Folgate Road,
North Walsham, Norfolk, NR28 0AJ, England.
Tel: (01692) 500000 Fax: (01692) 500188
Email:sales@vacweld.co.uk
Web Site: www.vacweld.co.uk

CERTIFICATION OF CONFORMITY

This is to certify the components listed below have been manufactured to their relevant drawing numbers, unless otherwise agreed. The components have been welded, cleaned and leak checked to UHV standards.

ORDER NO: 4500126332

ADVICE NOTE NO: 438

QTY: 80 CONCESSIONS: -

PART/DRAWING NO: ULBNL23 ISSUE: 1

DESCRIPTION: LEAD THROUGH ASSY

SERIAL NO: -

CERTIFIED BY: Mr. D HARBOUR

POSITION: DIRECTOR DATE: 9th SEPTEMBER 2002

PRINT NAME: D HARBOUR SIGNED:

Specialist welding and instrument-making for science and industry