



Travel Documents

7500 A DFLX 21

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.



Please sign off all procedures immediately after completion

Manufacturing Routing

Contract No. 6499152 Customer Lawrence Berkeley National Laboratory		7500 A DFLX 2-1 Pirelli Cables Ltd. UK LHC-DFLX-CA-0001 28/01/2003		Current Lead ID		
Description	Procedure No.	Iss.	Operator	Signature	Date	Comments
Assemble Resistive Assy	LBNL-Sub A	1	BRIAN JAMES	B. James	06-01-03	
Assemble HTS Board Assy	LBNL-Sub H1	1	MICHAEL NAVID	M. Navin	21/1/03	
Assemble HTS Assy	LBNL-Sub H2	2	MICHAEL NAVID	M. Navin	21/1/03	
Solder Resistive Assy - Station 2	LBNL-Sub B	1	BRIAN JAMES	B. James	07-01-03	
Solder Termination Assy - LBNL-Sub B	LBNL-Sub C	1	ERIC LIGHTFOOT	E. Lightfoot	14-01-03	
Insert Lead Through Assembly	LBNL-Sub C1	1	ERIC LIGHTFOOT	E. Lightfoot	15-01-03	
Instrumentation Wiring (Resistive Assembly)	LBNL-Sub C2	1	DAVID ADHERTON	D. Aderton	15/01/03	
Wrap Resistive Assy with Fibreglass	LBNL-Sub C3	1	MICHAEL NAVID	M. Navin	16/1/03	
Instrumentation Wiring RTD's	LBNL-Sub C4	1	DAVID ADHERTON	D. Aderton	15/01/03	
Insert / wire Termination Heater	LBNL-Sub C5	1				



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Manufacturing Routing

Contract No. 6499152 Customer Lawrence Berkeley National Laboratory 7500 A DFLX 2-1 Pirelli Cables Ltd, UK LHC-DFLX-CA-0001 28/01/2003						
Current Lead ID						
Description	Procedure No.	Iss.	Operator	Signature	Date	Comments
Solder Rutherford Cables to Station 1	LBNL-Sub D	1	MICHAEL NAVID	<i>M Navid</i>	21/1/03	
Solder LBNL-Sub D to HTS Assy (LBNL-Sub H1)	LBNL-Sub D1	1	MICHAEL NAVID	<i>M Navid</i>	21/1/03	
Assemble LIA Insulator	LBNL-SubCE1	1	ANTHONY WILLIAMS	<i>A Williams</i>	09/11/02	
Attach Cryogenic Envelope to LBNL-Sub C5	LBNL-Sub E	1	MEL BROWN	<i>MEL BROWN</i>	20/1/03	
Solder LBNL-Sub D1 to LBNL-Sub E	LBNL-Sub E1	1	R.N EATON	<i>R.N Eaton</i>	20/1/03	
Instrumentation Wiring (HTS Assembly)	LBNL-Sub E2	1	DAVID ATHERTON	<i>D Atherton</i>	22/1/03	
Insert Top Hat	LBNL-Sub F	1	D. SPILLER	<i>DMS</i>	28/01/03	
Pressure Test / He Leak Test	LBNL-Test S Draft-1	1	Gavin Anderson	<i>Gavin Anderson</i>	26/1/03	FLANGE No. 23
Voltage Test	LBNL-Test T Draft-1	1	Gavin Anderson	<i>Gavin Anderson</i>	26/1/03	



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Manufacturing Routing

Contract No. 6499152 Customer Lawrence Berkeley National Laboratory						
7500 A DFLX 2 L Pirelli Cables Ltd, UK LHC-DFLX-CA-0001 28 / 01 / 2003						
Current Lead ID						
Description	Procedure No.	Iss.	Operator	Signature	Date	Comments
Instrumentation Check	LBNL-Test U Draft-1	1	DAVID ADHERTON	<i>[Signature]</i>	11/2/03	



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Testing Schedule

Contract No. 6499152 Customer Lawrence Berkeley National Laboratory		7500 A DFLX 2 I Pirelli Cables Ltd, UK LHC-DFLX-CA-0001 28/01/2003		Current Lead ID	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	20/1/03	
#M923B (3.9)		Leak Check with He gas	< 1 x 10 ⁻⁸ (Torr.l.s ⁻¹)	✓					GA	20/1/03	
#M923B (3.3)		Voltage test using LBNL supplied chamber	< 50µA	✓					GA	20/1/03	
#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	[μ m]
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**

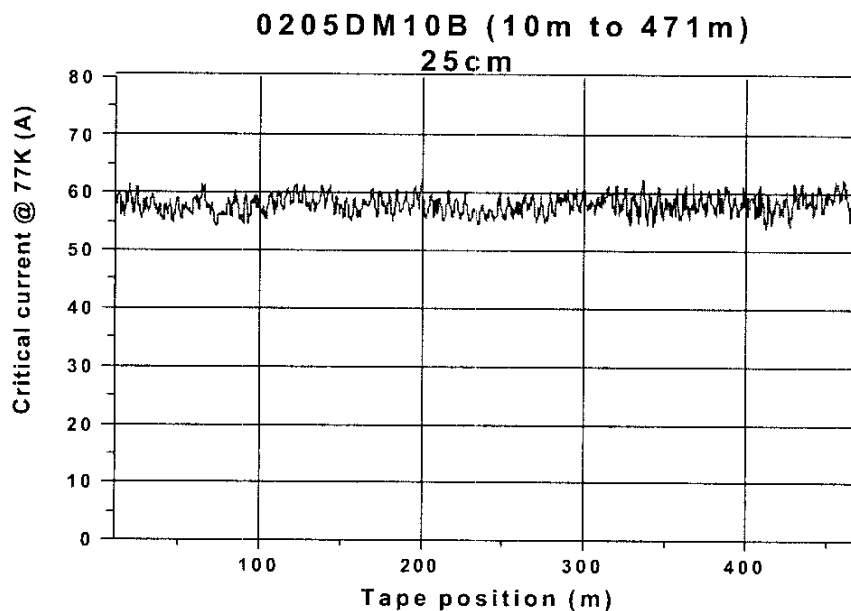
Blokken 84
DK-3460 Birkerød
Denmark
Phone +45 43 48 25 00
Fax +45 43 48 25 01
E-mail nst@nst.com
<http://www.nst.com/>
Reg. no. 224.707

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). I_c , width and thickness are measured at 25cm resolution.

Graph I_c at 25cm



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

Operator - Vince Parry
 Part number - ULBNL37
 Part description - Rectangular Flange
 Serial number - 23

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	5.5128	5.5120	.0008	.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	5.7464	5.7480	-.0016	.0080	-.0080	---*---	

Feature - 18mm (.7086) B

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
AXIS X	4.8648	4.8650	-.0002	.0050	-.0050	---*---	
AXIS Y	.0007	.0000	.0007	.0050	-.0050	---*---	
DIAMETER	.7080	.7086	-.0006	.0080	-.0080	---*---	

Feature - 18mm (.7086) A

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
AXIS X	-4.8642	-4.8650	.0008	.0050	-.0050	---*---	
AXIS Y	.0007	.0000	.0007	.0050	-.0050	---*---	
DIAMETER	.7079	.7086	-.0007	.0080	-.0080	---*---	

Feature - 18mm (.7086) C

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
AXIS X	-3.7419	-3.7420	.0001	.0050	-.0050	---*---	
AXIS Y	3.1090	3.1080	.0010	.0050	-.0050	---*---	
DIAMETER	.7077	.7086	-.0009	.0080	-.0080	---*---	

Feature - 18mm (.7086) D

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
AXIS X	-3.7415	-3.7420	.0005	.0050	-.0050	---*---	
AXIS Y	-3.1069	-3.1080	.0011	.0050	-.0050	---*---	
DIAMETER	.7080	.7086	-.0006	.0080	-.0080	---*---	

Feature - 18mm (.7086) E

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
AXIS X	3.7428	3.7420	.0008	.0050	-.0050	---*---	
AXIS Y	-3.1075	-3.1080	.0005	.0050	-.0050	---*---	
DIAMETER	.7080	.7086	-.0006	.0080	-.0080	---*---	

Feature - 18mm (.7086) F							
	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
AXIS X	3.7423	3.7420	.0003	.0050	-.0050	----*----	
AXIS Y	3.1085	3.1080	.0005	.0050	-.0050	----*----	
DIAMETER	.7078	.7086	-.0008	.0080	-.0080	----*----	
Feature - 18mm C to F (7.484)							
	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
LENGTH	7.4842	7.4840	.0002	.0050	-.0050	----*----	
Feature - 18mm D to E (7.484)							
	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
LENGTH	7.4843	7.4840	.0003	.0050	-.0050	----*----	
Feature - 18mm E to F (6.216)							
	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
LENGTH	6.2160	6.2160	.0000	.0050	-.0050	----*----	
Feature - 18mm C to D (6.216)							
	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
LENGTH	6.2159	6.2160	-.0001	.0050	-.0050	----*----	
Feature - PCD-7.128 Hole#1							
	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5638	3.5640	-.0002				
ANGLE	9.0224	9.0000	.0224				
DIAMETER	.3368	.3360	.0008	.0040	-.0040	----+*--	
T.P.RADIUS			.0014	.0015			
T.P.ANGLE			108.9206				
T.P.DIAM.			.0028	.0030			
Feature - PCD-7.128 Hole#2							
	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5647	3.5640	.0007				
ANGLE	27.0076	27.0000	.0076				
DIAMETER	.3369	.3360	.0009	.0040	-.0040	----+*--	
T.P.RADIUS			.0009	.0015			
T.P.ANGLE			60.4588				
T.P.DIAM.			.0017	.0030			
Feature - PCD-7.128 Hole#3							
	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5649	3.5640	.0009				
ANGLE	44.9960	45.0000	-.0040				
DIAMETER	.3376	.3360	.0016	.0040	-.0040	----+*--	
T.P.RADIUS			.0010	.0015			
T.P.ANGLE			30.0989				
T.P.DIAM.			.0020	.0030			
Feature - PCD-7.128 Hole#4							
	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5653	3.5640	.0013				
ANGLE	62.9913	63.0000	-.0087				
DIAMETER	.3374	.3360	.0014	.0040	-.0040	----+*--	
T.P.RADIUS			.0014	.0015			
T.P.ANGLE			39.7799				
T.P.DIAM.			.0027	.0030			
Feature - PCD-7.128 Hole#5							
	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5646	3.5640	.0006				

ANGLE	80.9817	81.0000	-.0183				
DIAMETER	.3379	.3360	.0019	.0040	-.0040	----+*-	
T.P.RADIUS			.0013	.0015			
T.P.ANGLE			19.4866				
T.P.DIAM.			.0026	.0030			
Feature - PCD-7.128 Hole#6							
	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5645	3.5640	.0005				
ANGLE	98.9819	99.0000	-.0181				
DIAMETER	.3373	.3360	.0013	.0040	-.0040	----+*-	
T.P.RADIUS			.0012	.0015			
T.P.ANGLE			34.8231				
T.P.DIAM.			.0025	.0030			
Feature - PCD-7.128 Hole#7							
	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5641	3.5640	.0001				
ANGLE	116.9837	117.0000	-.0163				
DIAMETER	.3370	.3360	.0010	.0040	-.0040	----+*-	
T.P.RADIUS			.0010	.0015			
T.P.ANGLE			32.5307				
T.P.DIAM.			.0020	.0030			
Feature - PCD-7.128 Hole#8							
	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5641	3.5640	.0001				
ANGLE	134.9780	135.0000	-.0220				
DIAMETER	.3378	.3360	.0018	.0040	-.0040	----+*-	
T.P.RADIUS			.0014	.0015			
T.P.ANGLE			48.6709				
T.P.DIAM.			.0027	.0030			
Feature - PCD-7.128 Hole#9							
	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5627	3.5640	-.0013				
ANGLE	152.9831	153.0000	-.0169				
DIAMETER	.3375	.3360	.0015	.0040	-.0040	----+*-	
T.P.RADIUS			.0016	.0015			.0001
T.P.ANGLE			12.5220				
T.P.DIAM.			.0033	.0030			.0003
Feature - PCD-7.128 Hole#10							
	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5627	3.5640	-.0013				
ANGLE	170.9810	171.0000	-.0190				
DIAMETER	.3385	.3360	.0025	.0040	-.0040	----+*-	
T.P.RADIUS			.0018	.0015			.0003
T.P.ANGLE			33.1557				
T.P.DIAM.			.0035	.0030			.0005
Feature - PCD-7.128 Hole#11							
	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5639	3.5640	-.0001				
ANGLE	189.0001	189.0000	.0001				
DIAMETER	.3366	.3360	.0006	.0040	-.0040	----+*-	
T.P.RADIUS			.0001	.0015			
T.P.ANGLE			4.6702				
T.P.DIAM.			.0001	.0030			
Feature - PCD-7.128 Hole#12							

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5624	3.5640	-.0016				
ANGLE	207.0000	207.0000	.0000				
DIAMETER	.3380	.3360	.0020	.0040	-.0040	----+*--	
T.P.RADIUS			.0016	.0015			.0001
T.P.ANGLE			27.0170				
T.P.DIAM.			.0032	.0030			.0002

Feature - PCD-7.128 Hole#13

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5628	3.5640	-.0012				
ANGLE	225.0059	225.0000	.0059				
DIAMETER	.3379	.3360	.0019	.0040	-.0040	----+*--	
T.P.RADIUS			.0013	.0015			
T.P.ANGLE			28.3784				
T.P.DIAM.			.0026	.0030			

Feature - PCD-7.128 Hole#14

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5625	3.5640	-.0015				
ANGLE	243.0120	243.0000	.0120				
DIAMETER	.3380	.3360	.0020	.0040	-.0040	----+*--	
T.P.RADIUS			.0017	.0015			.0002
T.P.ANGLE			36.4946				
T.P.DIAM.			.0033	.0030			.0003

Feature - PCD-7.128 Hole#15

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5646	3.5640	.0006				
ANGLE	261.0187	261.0000	.0187				
DIAMETER	.3370	.3360	.0010	.0040	-.0040	----+*--	
T.P.RADIUS			.0013	.0015			
T.P.ANGLE			324.1640				
T.P.DIAM.			.0026	.0030			

Feature - PCD-7.128 Hole#16

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5639	3.5640	-.0001				
ANGLE	278.9919	279.0000	-.0081				
DIAMETER	.3366	.3360	.0006	.0040	-.0040	----+*--	
T.P.RADIUS			.0005	.0015			
T.P.ANGLE			181.5752				
T.P.DIAM.			.0010	.0030			

Feature - PCD-7.128 Hole#17

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5655	3.5640	.0015				
ANGLE	297.0083	297.0000	.0083				
DIAMETER	.3373	.3360	.0013	.0040	-.0040	----+*--	
T.P.RADIUS			.0016	.0015			.0001
T.P.ANGLE			315.9264				
T.P.DIAM.			.0032	.0030			.0002

Feature - PCD-7.128 Hole#18

	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5647	3.5640	.0007				
ANGLE	315.0054	315.0000	.0054				
DIAMETER	.3375	.3360	.0015	.0040	-.0040	----+*--	
T.P.RADIUS			.0008	.0015			
T.P.ANGLE			339.7501				
T.P.DIAM.			.0016	.0030			

Feature - PCD-7.128		Hole#19					
	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5644	3.5640	.0004				
ANGLE	333.0134	333.0000	.0134				
DIAMETER	.3390	.3360	.0030	.0040	-.0040	---+---	
T.P.RADIUS			.0009	.0015			
T.P.ANGLE			38.4264				
T.P.DIAM.			.0018	.0030			

Feature - PCD-7.128		Hole#20					
	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
RADIUS	3.5625	3.5640	-.0015				
ANGLE	351.0087	351.0000	.0087				
DIAMETER	.3375	.3360	.0015	.0040	-.0040	----*--	
T.P.RADIUS			.0016	.0015			.0001
T.P.ANGLE			150.7399				
T.P.DIAM.			.0031	.0030			.0001

Feature - PCD-7.128							
	Actual	Nominal	Difference	Hi-tol	Lo-tol	Graphic	Error
AXIS X	.0007	.0000	.0007				
AXIS Y	.0003	.0000	.0003				
DIAMETER	7.1279	7.1280	-.0001	.0080	-.0080	---*---	
ROUNDNESS	.0036			.0030		+-->	.0006
T.P.RADIUS			.0008	.0015			
T.P.ANGLE			24.6755				
T.P.DIAM.			.0015	.0030			



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, U88 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:

FIRELLI CABLES LTD /P547-01
PLANT 5B, COMPONENTS DIVISION
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
10	RTD ASSEMBLY TYPE 16 16-1-3.0-4-25-CERA-R100-A-2 MTRS RF-17 DESPATCH ON AND NOT BEFORE 13/11/02 VIA OVERNIGHT CARRIER CUSTOMER CONTACT IS DARREN SHEPHERD YOUR CONTACT AT TC IS TOM HALL-JONES PACKING, CARRIAGE & INSURANCE	30	EACH ✓	
1024			LOT	
				Customer Agreed Concession Reference if applicable: none 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 goods. Customers intending to return goods to us (for any reason what-so-ever) must first inform us in writing with instructions as to which factory site the goods are to be returned to. We accept no liability for shortage, damage or non-receipt, in any way, for goods 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

<p>Customer : Pirelli Cables Limited Pirelli Components Division PO Box 4 Hall Lane Prescot L34 5UR</p>	<p>Customer's Order N° : 4500126265</p>
<p>We certify that the undermentioned items have been pressure tested, and inspected for leaks.</p> <p>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.</p> <p>No deviation has been made from our approved design drawings and / or our quality plan except as follows.....</p> <p>Dimensional Checks.....</p>	<p>NO LEAKS OR DISTORTIONS AT 0.5 BAR PRESSURE.</p> <p>NONE.</p> <p>CORRECT.</p>

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.R.E.
 J.Ellis
 16 August 2002

Inspection Stamp

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

<p>Customer : Pirelli Cables Ltd. Pirelli Components Division P.O. Box 4, Hall Lane, PRESCOT. Merseyside. L34 5UR.</p>	<p>Customer's Order N° : 4500126265</p>
<p>We certify that the undermentioned items have been pressure tested, and inspected for leaks.</p> <p>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.</p> <p>No deviation has been made from our approved design drawings and / or our quality plan except as follows.....</p> <p>Dimensional Checks.....</p>	<p>NO LEAKS OR DISTORTIONS.</p> <p>NONE.</p> <p>CORRECT.</p>

DESCRIPTION OF SUPPLIES

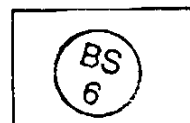
<p>Our drawing N°: M52211</p>	<p>Customer Ref : 60 N.B. Conset</p>	<p>Batch N°: 000330</p>	<p>Order Qty : 10</p>	<p>Despatch Qty : 10</p>
----------------------------------------------------	-----------------------------------------------------------	----------------------------------------------	--------------------------------------------	-----------------------------------------------

For Brockington & Scott Limited

J.Ellis
 J.Ellis

29 August 2002

Inspection Stamp





Varian Vacuum Technologies
Varian S.p.A.
Via F.lli Varian, 54
10040 Leini (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

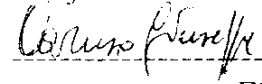
Si certifica che il seguente materiale:
We certify that the following material:

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

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**.

Juan S. Hoffman
Company Official

Quality Technician
Title



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.
MY INDUSTRIAL ESTATE
HENEACH
CAMERIDGE

VAI No: 593 6330 22
FAX No: 01223 863490
TEL: 01223 860741
CIX 90K

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
TRANSPORT DETAILS WORKS ORDER No. 0375074
INCOMING ORDER No. 4500134279
MATERIAL SPEC/ISSUE No. 016111
PAGE: 1
DATE: 15/07/98
ORDER ENTRY DATE: 15/07/98

DESCRIPTION

UNIT

QUANTITY

CERTIFICATE DECLARATION

001 6500

Part No. TRANSPORT CHARGES
LOWER SEAL ASSY
Part No. 1111RE-03
VACUUM BRAZE TO OUR DATA
CARD OXAN 15ms. 02
BRAZE N50
REQ. No. 10786431

LOAD ITEMS

1,000
1,000

002 0080

Part No. 1111RE-03
VACUUM BRAZE TO OUR DATA
CARD OXAN 15ms. 02
BRAZE N50
REQ. No. 10786431

EACH ITEMS

10,000
10,000

Furnace Charge 4/8501

01223 863 498

Helium Leak checked - Acceptable.

14-11-02



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 (1994) (14/05/98)

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/specifications quoted hereon and the requirements of the Civil Aviation Authority.

For and on behalf of:

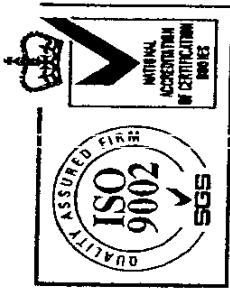
BODYCOTE HEAT TREATMENTS LTD.



Insp. Stamp

Signed: *[Signature]*

Certificate of Conformity



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

Web Site : WWW.LLANDAFF.COM

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

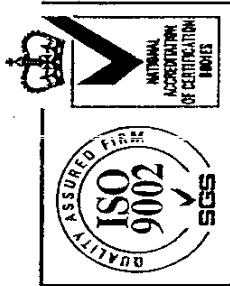
Account code BICC00184

Delivery date 9/20/02

Item	Part no	Your part no	Your order no	Qty ordered	Qty balance	Qty despatched
1	PICAFBNE42 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.



PAPERMILL ROAD,
CARDIFF, CF11 8PH UK
TEL: 029 2063 8300
FAX: 029 2056 5125
FAX: 029 2056 3523

**LLANDAFF
ENGINEERING**

Web Site : WWW.LLANDAFF.COM

Certificate Of Conformity

Page 1 of 1

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

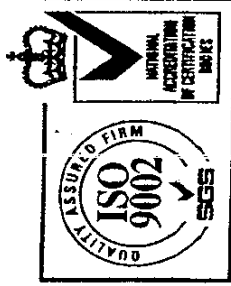
Our VAT reg	
Delivery no	28032
Account code	BICCC00184
Delivery date	19/09/2002

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.



Certificate Of Conformity

Web Site : WWW.LLANDAFF.COM

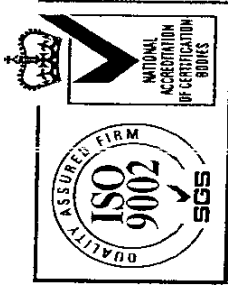
Our VAT reg	
Delivery no	28196
Account code	BICC00184
Delivery date	10/4/02

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

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 : 100917	40.000	0.000	40.000
DELIVERED BY PARCELINE						
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> Signature </div>						

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



Certificate of Conformity

Web Site : WWW.LLANDAFF.COM

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

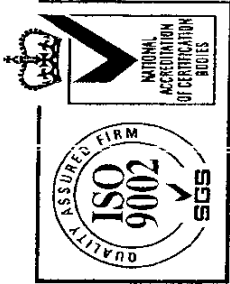
Account code
BICCC00184

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
<i>DELIVERED BY PARCELINE</i>						

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.



Certificate Of Conformity

Web Site : WWW.LLANDAFF.COM

Page 1 of 1

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

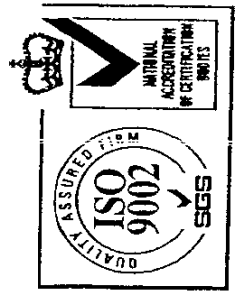
Item	Part no	Your part no	Your order no	Qty ordered	Qty balance	Qty despatched
1	PICALBNL42 6" CONELAT FLANGE TO DRG. LBNL42 Complete Order Item <i>Delivered by Parceline</i>		4500129463 UOM : EACH Our order : 10156/1	20.000	0.000	20.000

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.

Certificate Of Conformity



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

**LLANDAFF
ENGINEERING**

Web Site : WWW.LLANDAFF.COM

Our VAT reg
Delivery no 28137
Account code BICC00184
Delivery date 9/27/02

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

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

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
<i>DELIVERED BY PARCELINE</i>						

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

TOTAL P. 02

FAO A JONES 2 SHEETS 1 OF 2

COPER AND BRASS MILLS SEVOJNO.



UZICE
YUGOSLAVIA

CERTIFICATE

N° 428.-
DATE 11.05.01.

CUSTOMER: ~~EAST POINT~~
THE METAL CENTRE

FORM: Copper shasha Net: 8.385 kg
Quantity Btt: 8.913 kg.

STANDARD: BS EN 1652 Material Temper

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

Sample No	CHEMICAL COMPOSITION, (%)				MECHANICAL, METALLOGRAPHICAL AND TECHNOLOGICAL PROPERTIES					
	Cu	P			Tensile strength Rm	Yield strength Rp	Elongation ϵ_0	Hardness scale	Average Grain size (mm)	
1623/1 2 3	99,90	0,026			277,2 284,5 275,9		37,6 36,4 38,0			
	CW 024A 2,0 x 1000 x 2000 mm = 2.173 kg.									121260-01-04
1644/1 2 3 4	99,90	0,022			274,8 271,6 276,6 272,9		37,4 37,6 37,0 38,6			
	CW 024A 3,0 x 1000 x 2000 mm = 3.125 kg.									121261-01-06
1683/1 2	99,90	0,025			266,7 271,0		39,6 40,0			
	CW 024A 2,5 x 1000 x 2000 mm = 1.552 kg.									121262-01-03
1704/1 2	99,90	0,022			272,6 272,0		39,8 38,4			
	CW 024A 0,55 x 1000 x 2000 mm = 1.530 kg.									121263-01-03

- 380 -
3.1.b.

CONTROL'S DEPARTMENT

J. Curjastich

FOKK(1211)

INVOICE TO:

LLANDAFF ENGINEERING LTD
PAPERMILL ROAD
ELY
CARDIFF, SOUTH GLAM.

CFI 6UH DELIVERY DUE : 25/06/01

IRF No. ACCT No. CUSTOMER ORDER REF.
CFN20194

PAYMENT TERMS

BG
BGIDE

CFI 6UH

0149554

PRODUCT CODE	QUANTITY	DESCRIPTION	PRICE PER UNIT	VAT CODE	No. OF UNITS	LINE VALUE
010955	6.00	BS EN1653:1998/B52870:1980/C105 CU SHT CW024A/C106 H/H 2000mm X 1000mm X 2.0mm Batch ID: Cast No. 121250-1-0 1623/1 Caste No. 425	218.00			

SHF

BS EN1653:1998/B52870:1980/C105
CU SHT CW024A/C106 H/H
2000mm X 1000mm X 2.0mm
Batch ID: Cast No. 121250-1-0 1623/1
Caste No. 425

218.00

P/NO 000-762
P/NO 000-762
CFN 26777

RECEIVED AND INSPECTION ADVICE FOR EXAMINATION
W. Whyte 6.00 85 Above

Customer Comm

Certified that the supplier 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

2 of



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.	4500134978
Customer Advice Note No.	
Incoming C of C No.	10785081
Delivery	Courier
Batch No.	83439 / 0

Cables Ltd.
Benefits Unit
x 4
Wester Road
it
yside
IR

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

396321

WE NOW CONSIDER THIS ORDER COMPLETE

Received on behalf of

Pirelli Cables Ltd.

Signature

Print Name

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

on behalf of PMD (UK) Limited

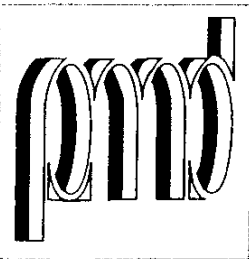
Smith

BS EN ISO 9001 1996



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 Conformity

Delivery / C of C Note No.	83438 / 0
Date	13/11/2002
Customer Order No.	4500134978
Customer Advice Note No.	
Incoming C of C No.	10785058
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 COMPLETE

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 shall conform in all respects to the specification(s), drawing(s) relevant thereto.

Received on behalf of

Pirelli Cables Ltd

Signature

Print Name

Signed for on behalf of PMD (UK) Limited

BS EN ISO 9001 1994



CERTIFICATE NUMBER FM 093



PMD (UK) LIMITED

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

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

Delivery Note / Certificate of Conformity

BIC

Table with delivery details: Delivery / C of C Note No. 83575 / 0, Date 14/11/2002, Customer Order No. 4500135403, Incoming C of C No., Delivery, Batch No. 83575 / 0.

Main table with columns: Quantity, Part Number / Description, Process Comments. Row 1: 10.0, LBNL02AG Station 1, Silver 10.0 - 15.0 Microns. Includes handwritten number 397259.

WE NOW CONSIDER THIS ORDER COMPLETE

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.

Received on behalf of

Pirelli Cables Ltd.

Signature

Print Name

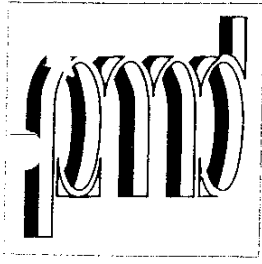
made for on behalf of PMD (UK) Limited

Handwritten signature of C. M. Deunck

BS EN ISO 9001 1994



CERTIFICATE NUMBER FM 093



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

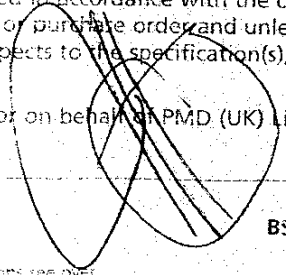
Received on behalf of _____

Signature _____ **Pirelli Cables Ltd.**

Print Name _____

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



BS EN ISO 9001 1994



CERTIFICATE NUMBER FM 093

For conditions see over

INVOICE ADDRESS

THE BULL DOG LANE
 COMPTONS DIVISION
 41 BULL DOG LANE
 PRESTON, MERSEYSIDE
 L34 5UR

DELIVERY ADDRESS

THE BULL DOG LANE
 COMPTONS DIVISION
 41 BULL DOG LANE
 PRESTON, MERSEYSIDE
 L34 5UR

SERIAL NUMBER: 042701
 PAGE: 1
 ORDER ENTRY DATE: 01/09/97
 TRANSPORT DETAILS: (N/A)
 WORKS ORDER No.: 027006
 INCOMING ORDER No.: 4500124279
 INCOMING CERT No.:
 MATERIAL SPEC/ISSUE No.: 000001

LINE No.	JOB No.	DESCRIPTION	UNIT	QUANTITY	CERTIFICATE DECLARATION
001	6500	TRANSFORMATION LOSSY Batch No. 11114-01 WEIGHT MEASZ TO OUR DATA CARC 0004 1-5-00 BR4Z 100 200 Nos. 1078624	TPTL ITEMS	10,000 10,000	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: 19 54 100 000 APPROVAL NUMBER
002	6500	Batch No. TRANSFORMATION LOSSES	LOAD ITEMS	1,000 1,000	

Certified that unless otherwise stated above, the whole of the above mentioned materials and 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. Dink* Insp. Stamp

Date: 1-11-97

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