



PAGE 1 OF 4  
DATE: 12-10-1997  
REVISION: A  
W.O. NO: 64774  
CUSTOMER: KAWASO  
LOCATION: JAPAN

## INFRARAIL SPECIAL NUMBER R717

### PURPOSE AND DESCRIPTION:

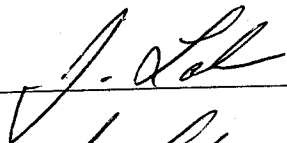
CUSTOMER REQUIRES A INFRARAIL TEMPERATURE SYSTEM WITH A SPECIAL TEMPERATURE RANGE AND SPECIAL LENGTH FIBER OPTIC LIGHT GUIDE AS FOLLOWS :

MODEL: DNF99-99C  
RANGE: 1150 - 1600 DEG. C (SSPECIAL RANGE)  
OPTICAL RESOLUTION: D/60  
SPECIAL 66' FIBER OPTIC CABLE  
WAVELENGTH: 0.7 - 1.0 um

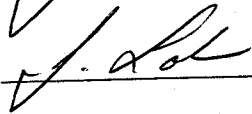
### GENERALITY OF APPLICATION AND RESTRICTIONS:

UNRESTRICTED: SUITABLE FOR USE WITH ALL STANDARD OPTIONS.

WRITTEN BY:



APPROVED BY:



DATE:

12-10-97

**INFRARAIL SPECIAL NUMBER R717**

REVISION: A  
DATE: 12-10-1997

**PRODUCTION INSTRUCTIONS:**

BUILD A STANDARD MODEL DNFFF-16C ELECTRONICS MODULE, AND INSTALL THE M1 CHARACTERIZING MODULE PER PAGE THREE ATTACHED.

SECURE FROM ENGINEERING THE SPECIAL 66' FIBEROPTIC CABLE.

**CALIBRATION INSTRUCTIONS:**

CALIBRATE AS PER STANDARD.

Isc out tbb (1600°C) = 2.5 uA.

**MANUAL INSTRUCTIONS:**

GENERIC INFRARAIL SERIES MANUAL.

INFRARAIL SPECIAL NUMBER R717 CONTINUED,

BILL OF MATERIAL

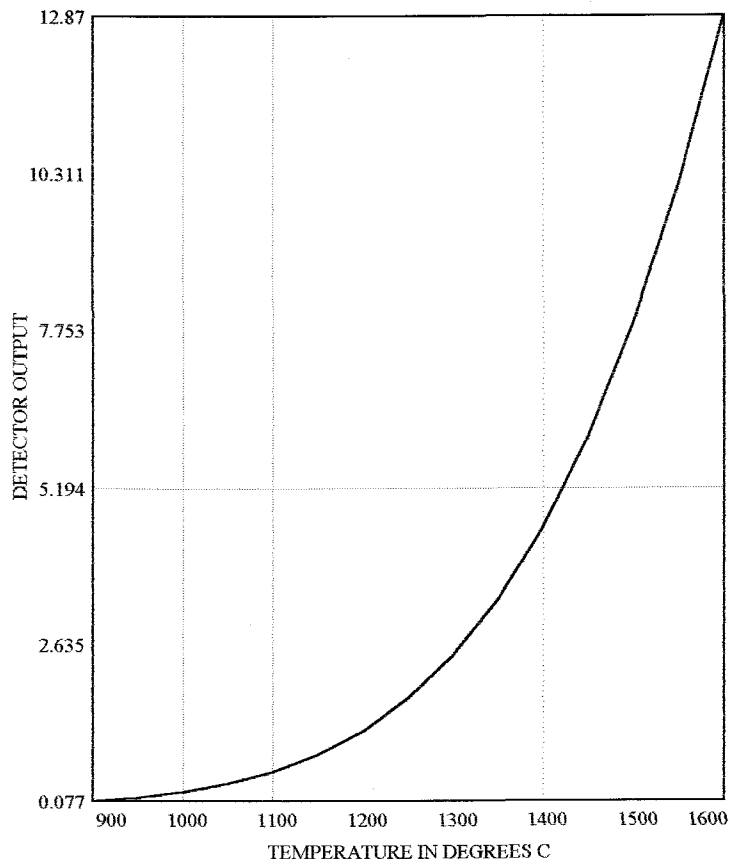
MODULE M1 REFERENCE: DWG. NO. C11194

SYMBOL	PART NO.	DESCRIPTION		
R1	101304011	RESISTOR	1.30 Mohm	METAL FILM 1/4W 1%
R44	101872011	RESISTOR	18.7 Kohm	METAL FILM 1/4W 1%
R54	101743011	RESISTOR	174 Kohm	METAL FILM 1/4W 1%
R45	108871011	RESISTOR	8.87 Kohm	METAL FILM 1/4W 1%
R55	104322011	RESISTOR	43.2 Kohm	METAL FILM 1/4W 1%
R46	107501011	RESISTOR	7.50 Kohm	METAL FILM 1/4W 1%
R56	105492011	RESISTOR	54.9 Kohm	METAL FILM 1/4W 1%
R47	106191011	RESISTOR	6.19 Kohm	METAL FILM 1/4W 1%
R57	107152011	RESISTOR	71.5 Kohm	METAL FILM 1/4W 1%
R48	105111011	RESISTOR	5.11 Kohm	METAL FILM 1/4W 1%
R58	109312011	RESISTOR	93.1 Kohm	METAL FILM 1/4W 1%
R49	104021011	RESISTOR	4.02 Kohm	METAL FILM 1/4W 1%
R59	101243011	RESISTOR	124 Kohm	METAL FILM 1/4W 1%
R50	103161011	RESISTOR	3.16 Kohm	METAL FILM 1/4W 1%
R60	101653011	RESISTOR	165 Kohm	METAL FILM 1/4W 1%
R51	102431011	RESISTOR	2.43 Kohm	METAL FILM 1/4W 1%
R61	102213011	RESISTOR	221 Kohm	METAL FILM 1/4W 1%
R52	101871011	RESISTOR	1.87 Kohm	METAL FILM 1/4W 1%
R53	104871011	RESISTOR	4.87 Kohm	METAL FILM 1/4W 1%
R62	103013011	RESISTOR	301 Kohm	METAL FILM 1/4W 1%

D/60 OPTICS  
I<sub>sc</sub> (CAL SCREW FULL OUT)

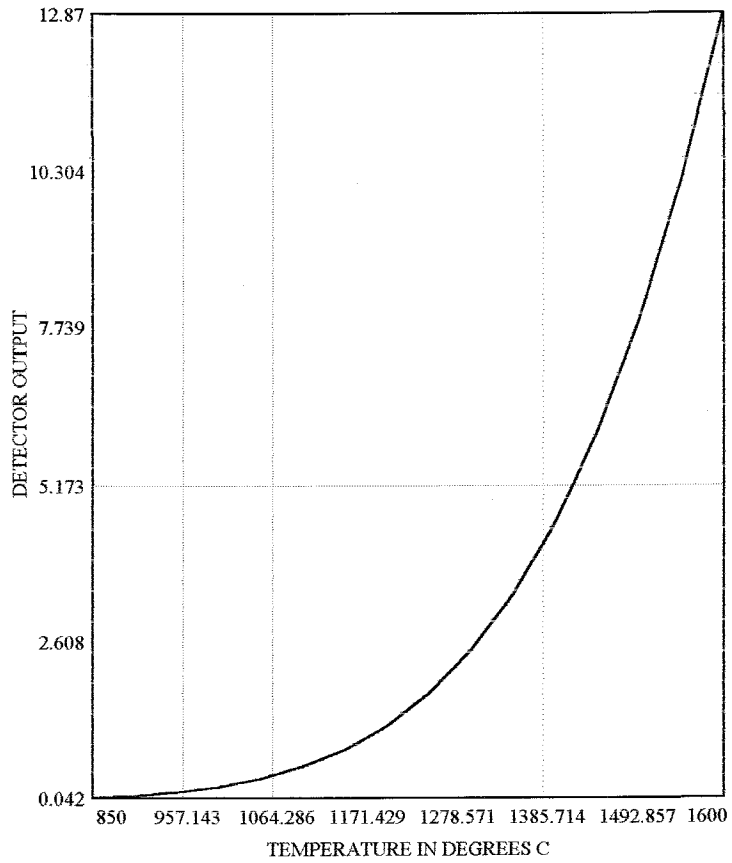
TC OUTPUT(TC)

1600	12.87
1550	10.121962
1500	7.858067
1450	6.015312
1400	4.534852
1350	3.362315
1300	2.448036
1250	1.74723
1200	1.220067
1150	0.831667
1100	0.552002
1050	0.355702
1000	0.221777
950	0.133268
900	0.076829



TC OUTPUT(TC)

1600	12.87
1550	10.121962
1500	7.858067
1450	6.015312
1400	4.534852
1350	3.362315
1300	2.448036
1250	1.74723
1200	1.220067
1150	0.831667
1100	0.552002
1050	0.355702
1000	0.221777
950	0.133268
900	0.076829
850	0.042264



INFRARAIL SPECIAL NUMBER R717  
TEMPERATURE RANGE: 1150 TO 1600 DEGREES C  
SPECTRUM: 0.70 TO 1.00 MICRONS

TEMPERATURE DEGREES C	SENSOR OUTPUT IN mAMPS	INDICATOR OUTPUT mAMPS
1150.0	0.1615	4.000
1175.0	0.1963	4.889
1200.0	0.2370	5.778
1225.0	0.2844	6.667
1250.0	0.3393	7.556
1275.0	0.4027	8.444
1300.0	0.4755	9.333
1325.0	0.5585	10.222
1350.0	0.6530	11.111
1375.0	0.7601	12.000
1400.0	0.8808	12.889
1425.0	1.0165	13.778
1450.0	1.1684	14.667
1475.0	1.3378	15.556
1500.0	1.5263	16.444
1525.0	1.7352	17.333
1550.0	1.9661	18.222
1575.0	2.2205	19.111
1600.0	2.5000	20.000

# Acknowledgment



IRCON, INC.  
7300 N. Natchez Ave.  
Niles, IL 60714 USA

Phone 847-967-5151  
Toll Free 800-323-7660  
Fax 847-647-0948

SOLD TO \_\_\_\_\_ CUSTOMER NO. 004702

KAWASO ELECTRIC INDUSTRIAL CO.  
NANKYOKU BLDG 2F, 7-51 6-CHOME  
ITACHIBORI, NISHIKU  
OSAKA JAPAN

SHIPPING ADDRESS \_\_\_\_\_ TAX CODE NO TAX

KAWASO ELECTRIC INDUSTRIAL CO.  
NANKYOKU BLDG 2F, 7-51 6-CHOME  
ITACHIBORI, NISHIKU  
OSAKA JAPAN

SCHEDULED SHIPPING WEEK \_\_\_\_\_ MONTH/DAY/YEAR  
ENDING 01/24/98

OUR ORDER NO. SA 064774/00 ORDER DATE MONTH/DAY/YEAR 12/03/97

YOUR ORDER NO. 97KI088

TERMS NET 30  
X OTHER

F.O.B. NILES, ILLINOIS  
X

CODE 751 .00

VIA KINTETSU EXPRES PPD. COLL. X

SPECIAL SHIPPING INSTRUCTIONS  
DELV TO SERV DEPT FOR TEST CERTF.

12/05/97

PAGE 1

\*\*CHANGED ORDER\*\*

LINE NO.	PART NO.	QTY.	DESCRIPTION	UNIT MEAS	DISCOUNT %	PRICE EACH U.S. DOLLAR	AMOUNT U.S. DOLLAR
01		1	INFRARAIL TEMPERATURE SYSTEM MODEL DNF99-99C SERIAL NBR 002108	EA		1800.00	1800.00
			CABLE(S) 12 FEET EA ( 12 FEET EA INCLUDED IN ABOVE)				
			PRODUCT MODIFICATION CHARGES ***** * SPECIAL Z999 * ***** !!!!!!!!!!WARNING!!!!!!!!!! ** SPL # TO BE DETERMINED ** ** SEE ENGINEERING DEPT. **			750.00	750.00
			SUB TOTALS				2550.00
			GRAND TOTAL				2550.00

*New Special Temperature of 1050-1600 C, D/60 resolution and 66 ft fiber optic cable*  
RAB 12/5/97

THIS ORDER IS ACCEPTED SUBJECT TO TERMS AND CONDITIONS SHOWN ON THIS AND THE REVERSE SIDE

IF TAX EXEMPT, PLEASE PROVIDE COPY OF EXEMPTION OR DIRECT PAYMENT CERTIFICATE.

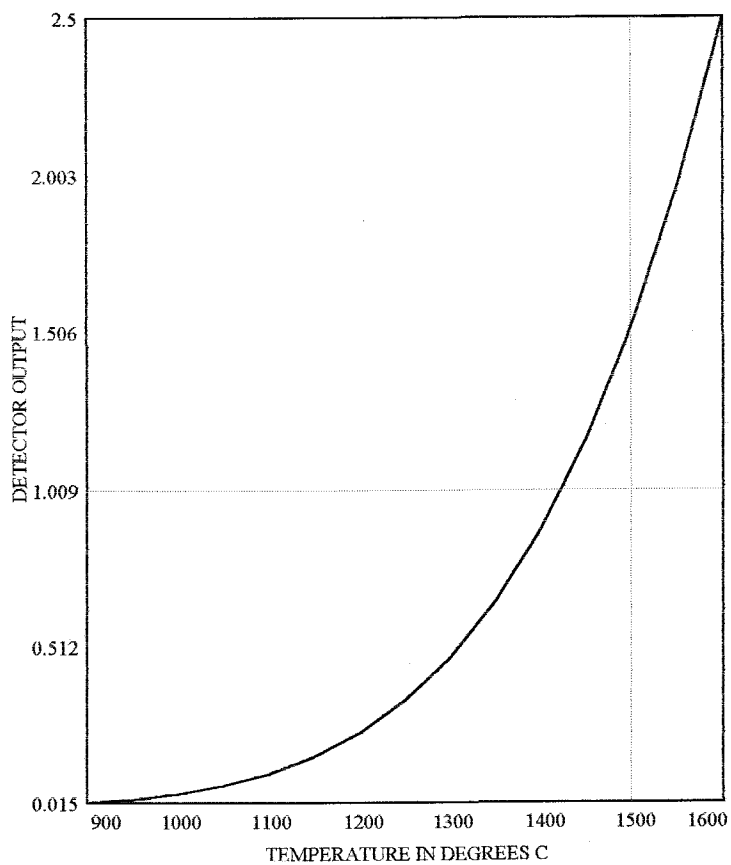
Ship To: IRCON, INC.  
7300 N. NATCHEZ AVE.  
NILES, IL 60714 USA

ORIGINAL

Part No. 020172 Rev C 12/95

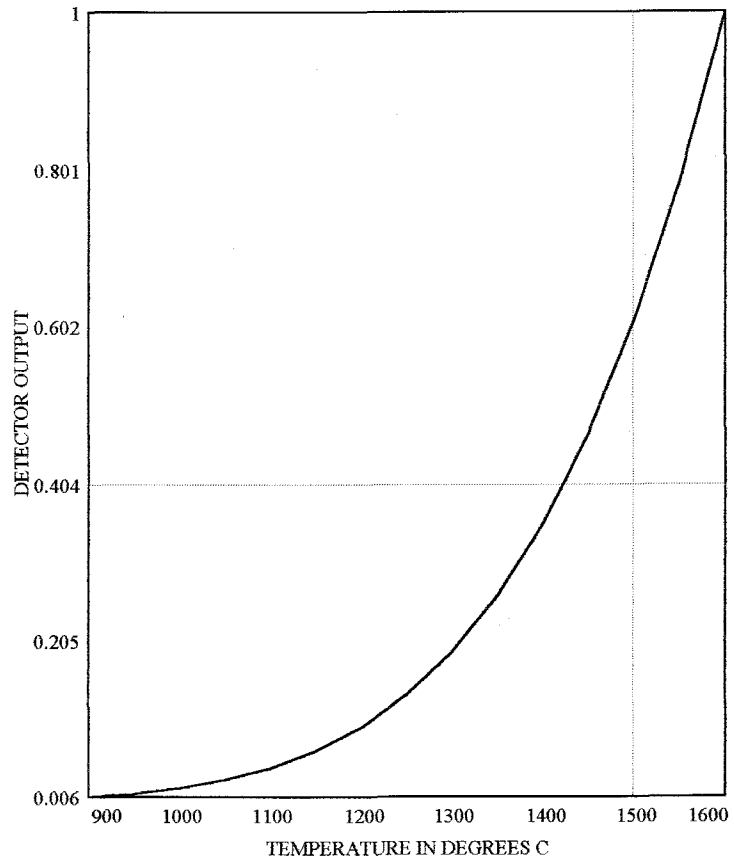
TC OUTPUT(TC)

1600	2.5
1550	1.966193
1500	1.526431
1450	1.168475
1400	0.880896
1350	0.65313
1300	0.475531
1250	0.3394
1200	0.236998
1150	0.161552
1100	0.107227
1050	0.069095
1000	0.04308
950	0.025887
900	0.014924



TC OUTPUT(TC)

1600	1
1550	0.786477
1500	0.610572
1450	0.46739
1400	0.352358
1350	0.261252
1300	0.190213
1250	0.13576
1200	0.094799
1150	0.064621
1100	0.042891
1050	0.027638
1000	0.017232
950	0.010355
900	0.00597





# Engineering Special or System Request

Page \_\_\_ of \_\_\_

From: Greg Steahen  
To: Joe Lakner

Date: 11/18/97  
Customer: KAWASO

Description of Request: \_\_\_\_\_  
Base standard model or series: \_\_\_\_\_

- 1) DNFFF-16C
- WITH 20 meter (66 ft.) fiber optic cable
- lower temperature limit 1150 °C
- Spare 20 meter (66 ft.) fiberoptic
- DKO resolution

Details of specific approval: \_\_\_\_\_

DNFFF-16C 1150 - 1600 °C fiber optic  
~~1150~~ \$1,900 adder  
~~1150~~ \$1,050  
 spares cables - 4,875 cable  
 Note ⇒ 60' Fibers

Specific Exceptions: \_\_\_\_\_

1150

Price: see above  
(adder to standard)

Delivery: Bulk W/L  
(adder to standard)

Approved by: J. Lakner

Date: 11-18-97



# Engineering Special or System Request

Page \_\_\_ of \_\_\_

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To: Joe Lakner

Date: 11/18/97  
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Base standard model or series: \_\_\_\_\_

- 1) DNFFF-16C
- WITH 20 meter (66 ft.) fiber optic cable
- lower temperature limit 1150 °C
- Spare 20 meter (66 ft.) fiberoptic
- DKO resolution

Details of specific approval: \_\_\_\_\_

DNFFF-16C      1150 - 1600 °C      1/150  
~~Price~~      ~~1,900~~      adder  
~~1,050~~  
 Special cables - 4,375 each

Note ⇒ 60' Fibers

Specific Exceptions: \_\_\_\_\_

1/150

Price: See Above  
(adder to standard)

Delivery: Quik Nite  
(adder to standard)

Approved by: J. Pul

Date: 11-18-97

**SCHOTT-CML  
FIBEROPTICS, INC.****Telefax**

To

Ircon Inc.

Joe Lakner

**Schott-CML FIBEROPTICS LLC**45 Bartlett Street  
Marlborough, MA 01752 USA

From Karen Behrendt

Phone +1 (508) 229-8312

Fax +1 (508) 229-8323

Email Fiber@CMLFiber.Ultranet.Com

Date 13-Nov-97

Phone

Fax (847) 647 0070

Ref

Page

If you do not receive all of these pages,  
please call the sender as soon as possible**Re: Your request for quotation from last week**

Dear Joe,

please find attached our quotation for the requested light guides. Please excuse the delay. We tried to find a supplier for the aluminum sheathing, who did not insist on high minimum order quantities. The minimum quantity we must buy is 1000 feet. Therefore the unit price is comparably high for the 10 feet long light guide. For higher Quantities the price would drop significantly. The end tips will also been made out of aluminum. We recommend rather this solution than the silicone sheathing. The silicone tube is not rigid enough to protect the fibers as necessary.

If you have further questions, please give me a call.

Best Regards  
Schott-CML Fiberoptics LLCKaren Behrendt  
Product Manager  
Industrial Products

# QUOTATION

Schott-CML Fiberoptics Quote No. 98-532

Date: November 13, 1997



## SCHOTT-CML FIBEROPTICS, INC.

45 Bartlett Street, Marlborough, MA 01752

Telephone: 800-445-7016

Telefax: 508-229-8323

E-mail: fiber@cmlfiber.ma.ultranet.com

Page 1 of 1

**Customer:** Ircon Inc.  
7300 North Natchez Ave.  
Niles, Ill 60714

**Customer Contact:** Joe Lakner  
Phone: (847) 967 5151  
Fax: (847) 647 0070

CUSTOMER RFQ NO.	RFQ DATE	DELIVERY SCHEDULE	F.O.B. POINT	SHIP VIA
Verbal	11/06/97	See below	Shipping Point	Best way

ITEM	UNIT	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
1	each	2	<b>Fiber Optic Light Guide, similar Ircon Part-No.61073-2</b> <ul style="list-style-type: none"><li>Fibertype: Schott-CML Premium 55HT</li><li>Bundle diameter 2mm</li><li>Length: 60 feet</li><li>Standard Metall sheathing</li></ul>	\$ 245.00	\$ 490.00
2	each	3	<b>Fiber Optic Light Guide, similar Ircon Part-No.61073-2</b> <ul style="list-style-type: none"><li>Fibertype Schott-CML Regular 55STD</li><li>Bundle Diameter 2 mm</li><li>Length: 10 feet</li><li>Aluminum sheathing</li></ul>	\$ 295.00	\$ 885.00
3	each	3	<b>Same as Item 2 with exception:</b> <ul style="list-style-type: none"><li>Silicone sheathing</li></ul>	\$ 240.00	\$ 720.00

1. Terms: Net 30 days. Additional Terms and Conditions provided upon request.
2. This quotation is in effect for 60 days from above date.
3. Any order based on this quotation is subject to acceptance by Schott-CML Fiberoptics LLC, Marlborough, MA.
4. Send all correspondence to:

Schott-CML Fiberoptics  
Attn: Sales Office  
45 Bartlett Street  
Marlborough, MA 01752

Delivery Schedule:

Item 1 and 3 approx. 4 - 6 weeks ARO

Item 2 approx. 8 weeks ARO

  
11-13-97

Authorized by Karen Behrendt  
Schott-CML Fiberoptics, Sales Office

Date

**SCHOTT-CML  
FIBEROPTICS LLC****Telefax**

To Ircon

Joe Lakner

**Schott-CML FIBEROPTICS LLC**45 Bartlett Street  
Marlborough, MA 01752 USA

From Karen Behrendt

Phone +1 (508) 229-8312

Fax +1 (508) 229-8323

Email Fiber@CMLFiber.Ultranet.Com

Date 18-Nov-97

Phone

Fax (847) 647-0070

Ref

Page

If you do not receive all of these pages,  
please call the sender as soon as possible

Re: Your phone call of today

Dear Joe,

please accept our apologies about our phone system. Hopefully it will be repaired within the next days. In the meantime I will send you the requested information by fax.

It is possible to build the light guide with a length of 66 feet instead of 60 feet. Due to the fact, that we will be using fibers from our Wiesbaden production facility we have fiber bundles with this length available. The main problem will be to insert the fiber bundle into the sheathing, which will be more difficult the longer the light guide is. Of course it also has an influence on the transmission of the light guide. But I am sure, that you have taken this into account.

So, if you would like to order the 66 feet light guide the price the price will be \$ 275.00 per piece.

If you have further questions, please let me know (by phone or maybe better by fax).

Best Regards

**Schott-CML Fiberoptics, LLC**Karen Behrendt  
Product Manager  
Industrial Components

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Authorized by Karen Behrendt  
Schott-CML Fiberoptics, Sales Office

Date



**SCHOTT-CML  
FIBEROPTICS, INC.****Telefax**

To

Ircan Inc.

Joe Lakner

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45 Bartlett Street

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From Karen Behrendt

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Fax +1 (508) 229-8323

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Best Regards  
Schott-CML Fiberoptics LLC

A handwritten signature in black ink, appearing to read 'Karen Behrendt', written over a horizontal line.

Karen Behrendt  
Product Manager  
Industrial Products

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FIBEROPTICS LLC****Telefax**

To Ircon

Joe Lakner

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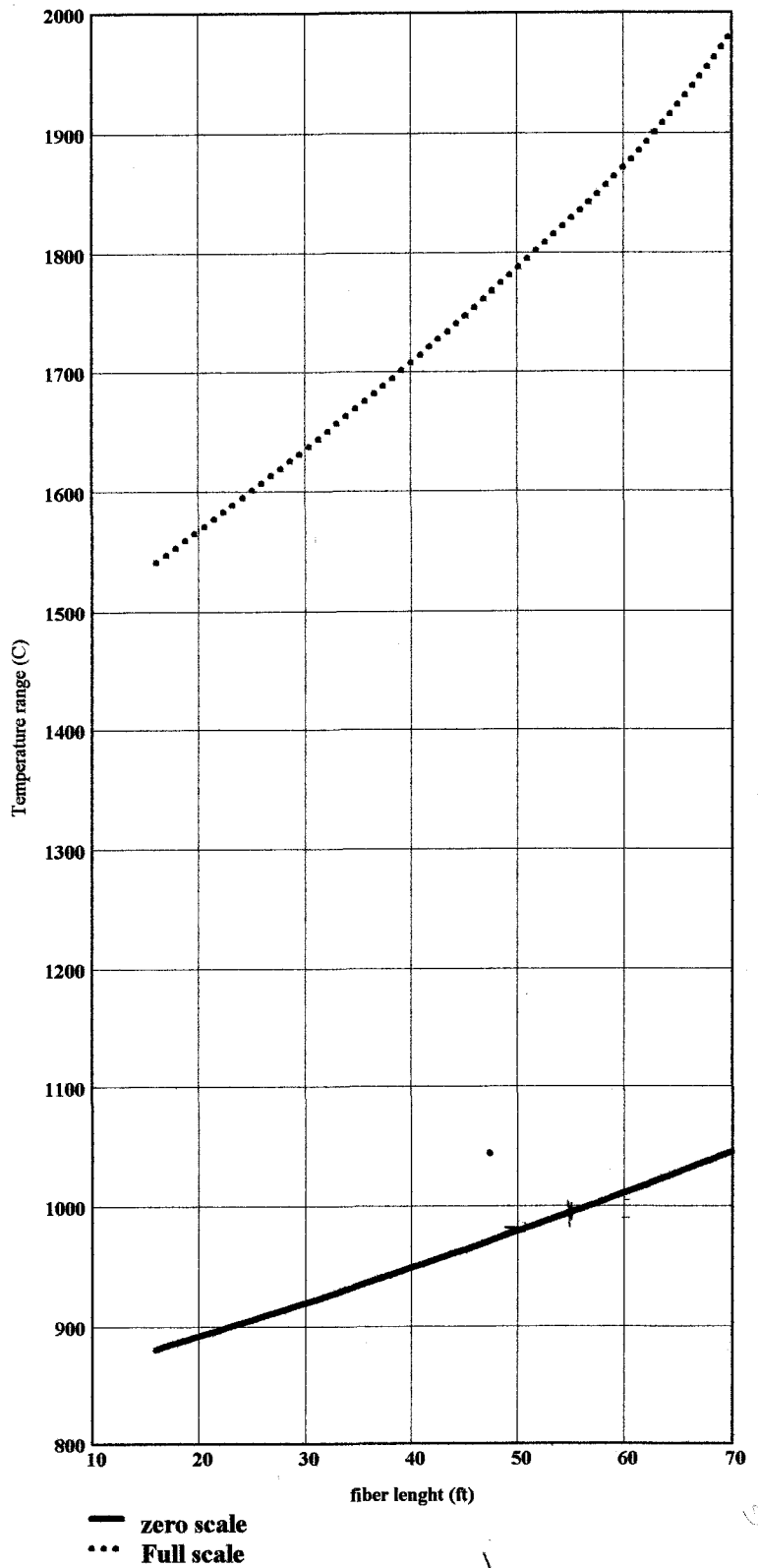
 11-13-97

Authorized by Karen Behrendt  
 Schott-CML Fiberoptics, Sales Office

Date

# Distance Zero scale Full Scale

D <sub>i</sub>	ZS <sub>i</sub>	FS <sub>i</sub>
16-ft	879	1541
17-ft	882	1547
18-ft	885	1553
19-ft	887	1560
20-ft	890	1567
21-ft	893	1573
22-ft	896	1580
23-ft	898	1586
24-ft	901	1593
25-ft	904	1600
26-ft	907	1607
27-ft	910	1614
28-ft	912	1621
29-ft	915	1628
30-ft	918	1635
31-ft	921	1642
32-ft	924	1649
33-ft	927	1656
34-ft	930	1663
35-ft	933	1671
36-ft	936	1678
37-ft	939	1685
38-ft	942	1693
39-ft	944	1700
40-ft	947	1708
41-ft	950	1715
42-ft	953	1723
43-ft	957	1731
44-ft	960	1739
45-ft	963	1746
46-ft	966	1754
47-ft	969	1762
48-ft	972	1770
49-ft	975	1778
50-ft	978	1786
51-ft	981	1795
52-ft	985	1803
53-ft	988	1811
54-ft	991	1820
55-ft	994	1828
56-ft	997	1837
57-ft	1001	1845
58-ft	1004	1854
59-ft	1007	1863
60-ft	1010	1872
61-ft	1014	1882
62-ft	1017	1891
63-ft	1020	1902
64-ft	1024	1912
65-ft	1027	1923



*D/551*  
*66*

# R717 Test (66 FT CABLE)

Sensor {  $I_{out}(\text{FULL OPEN}) @ 1150^{\circ}\text{C} \approx .830 \text{ mA}$   
 Isc {  $I_{out}(\text{" "}) @ 1600^{\circ}\text{C} \approx 12.87 \text{ mA}$

ADJ.	$I_{out}(\text{lin})$	<u>new lens</u> 20,000-ADJ. (19.9500)	Temp
	20.00 mA		1600°C
	18.22		1550
	16.43	16.43	1500
	14.66		1450
	12.86	12.89	1400
	11.09		1350
	9.32	9.34	1300
	7.52		1250
	5.74	5.75	1200
	3.96	3.98	1150

OLD LENS  
↑  
DEMO

OLD LENS {  $I_{sc} @ 900^{\circ}\text{C} \approx 13.9 \text{ mA} \rightarrow$  ADJUSTED FOR FULL SCALE  
 " "  $1000^{\circ}\text{C} = 42.0 \text{ mA}$   
 " "  $1100^{\circ}\text{C} = 106.4 \text{ mA}$   
 SCALE output (2.5 mA @ 1600)

new lens {  $I_{sc} @ 900^{\circ}\text{C} \approx 13.5 \text{ mA}$   
 " "  $1000 \approx 40.8 \text{ mA}$   
 " "  $1100 \approx 103.7 \text{ mA}$  } READJUST