

Biospherical Instruments Inc.

CALIBRATION CERTIFICATE

Calibration Date 7/27/2010
Model Number QSR2200
Serial Number 20238
Operator TPC
Standard Lamp GS-1024(8/28/08)
Probe Excitation Voltage Range: 6 to 18 VDC(+)
Output Polarity: Positive

Probe Conditions at Calibration(in air):

Calibration Voltage: 6 VDC(+)
Probe Current: 3.5 mA

Probe Output Voltage:

Probe Illuminated 93.8 mV
Probe Dark 1.1 mV
Probe Net Response 92.6 mV
RG780 2.0 mV

Corrected Lamp Output:

Output In Air (same condition as calibration):

9.271E+15 quanta/cm²sec
0.01540 uE/cm²sec

Calibration Scale Factor:

(To calculate irradiance, divide the net voltage reading in Volts by this value.)

Dry: 9.9913E-18 V/(quanta/cm²sec)
6.0168E+00 V/(uE/cm²sec)

Notes:

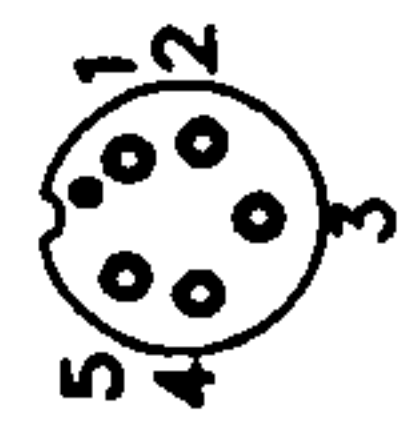
1. Annual calibration is recommended.
2. Calibration is performed using a Standard of Spectral Irradiance traceable to the National Institute of Standards and Technology (NIST).
3. The collector should be cleaned frequently with alcohol.
4. Calibration was performed with customer cable, when available.

REV	DESCRIPTION	DATE	BY
A	PROD. RELEASE	3/26/02	McGUIRE
B	ADD SWITCHCRAFT WIRE DETAIL	10/20/05	LIND
C	ADD SWITCHCRAFT POTTING NOTE	09/01/06	LIND
-	-	-	McGUIRE

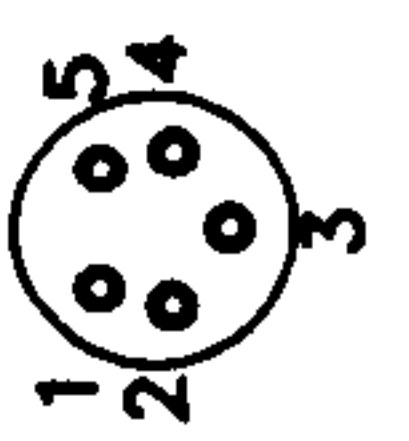
STRAIN RELIEF
AMP #206062-1
(80.01021)

XX meters

INLINE FACE VIEW

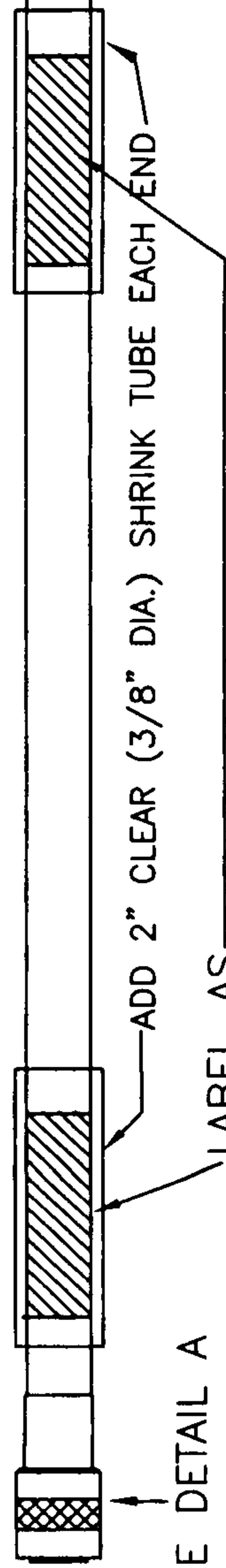


INLINE SOLDER VIEW



Strip .6"

80.20610 WITH BRAIDED SHIELD, SUPPLIED BY BSI

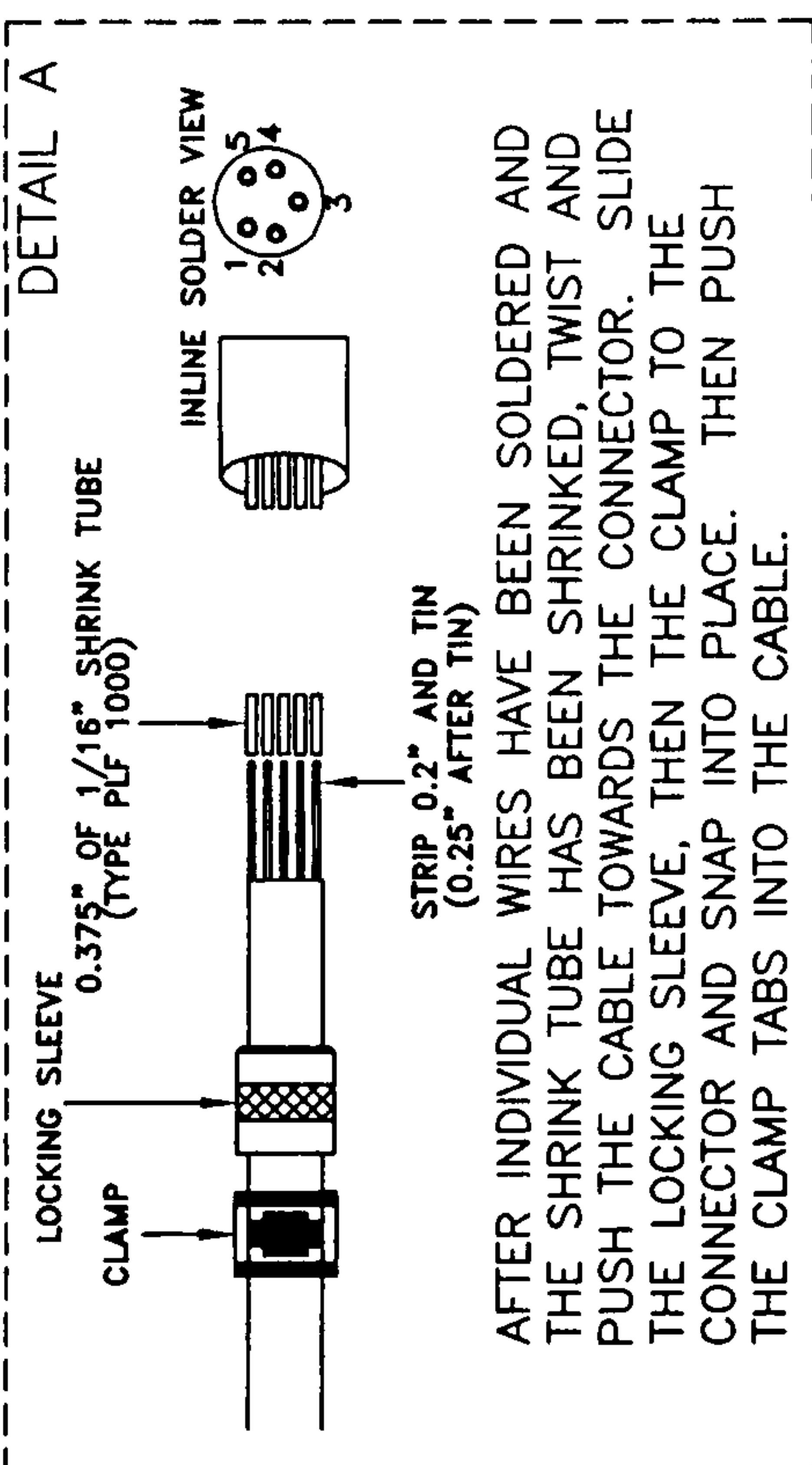


4 PLC. PLUG
AMP #206060-1
(80.01020)
4 GOLD FEMALE
CONTACTS
AMP 66183-1
(80.01090)

"QSC2245/XX"

WHERE XX IS CABLE LENGTH IN METERS
SEE DOC 5681CA FOR LABELING INFO

SIGNAL	SWITCHCRAFT PIN #	CONDUCTOR (WIRE COLOR)	AMP CONNECTOR **
--	--	SHIELD	1
GROUND	1	BLK	1
SIGNAL	2	WHT	2
SIGNAL GND	3	GREEN	3
POWER	4	RED	4
UNUSED (NEG. PWR)	5	ORG	-



STRIP 0.2" AND TIN
(0.25" AFTER TIN)

AFTER INDIVIDUAL WIRES HAVE BEEN SOLDERED AND THE SHRINK TUBE HAS BEEN SHRINKED, TWIST AND PUSH THE CABLE TOWARDS THE CONNECTOR. SLIDE THE LOCKING SLEEVE, THEN THE CLAMP TO THE CONNECTOR AND SNAP INTO PLACE. THEN PUSH THE CLAMP TABS INTO THE CABLE.

** CRIMP & SOLDER THEN DEFLUX PINS.
** SLEEVE UNCOVERED LENGTH OF SHIELD.

DETAIL A POTTING INSTRUCTIONS: DISCARD RUBBER BOOT SUPPLIED WITH SWITCHCRAFT CONNECTOR. REPLACE WITH 2" OF EPS-300 SHRINK TUBE. TEST CABLE BEFORE POTTING!!! USE 1 PACKAGE OF 3M SCOTCHCAST 4 PER CABLE BATCH (88.10118). MOVE SHRINK TUBE OVER TERMINATED CONNECTOR UNTIL FLUSH WITH EDGE OF LOCKING SLEEVE. DO NOT PUSH IT SO TIGHT THAT THE LOCKING SLEEVE CANNOT ROTATE ANYMORE. GENTLY SHRINK TUBE AROUND CONNECTOR BASE SO IT STAYS IN PLACE AND POTTING COMPOUND WILL NOT RUN OUT. DO NOT SHRINK THE REST OF THE SHRINK TUBE MORE THAN JUST A LITTLE BIT TO MAKE IT NICE AND ROUND. CAREFULLY SET CABLE(S) UPRIGHT AND FILL SHRINK TUBE "BOOT" WITH POTTING COMPOUND WITH A SYRINGE TO WITHIN APPROXIMATELY 1/2" OF THE TOP. BE CAREFUL AND CLEAN. LET STAND OVERNIGHT TO DRY. CAREFULLY SHRINK THE SHRINK TUBE WHEN TERMINATION IS DRY SO THAT IT CLOSES NEATLY AROUND CABLE JACKET. TEST CABLE AGAIN BEFORE PUTTING INTO STOCK.

NOTES: UNLESS OTHERWISE SPECIFIED.

2. REMOVE ALL BURRS AND SHARP EDGES, .015 R MIN.

3. SURFACES TO BE FREE OF SCRATCHES, MARS, AND BLEMISHES.

1/2" dia

FINISH: -

MATERIAL: -

DRAWN
McGUIRE

DATE

12/16/99

CHECKED

PRODUCTION

10/20/2000

LIND

DO NOT SCALE DRAWING

DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE SPECIFIED
TOLERANCES:
X ±.050
.XX ±.010
.XXX ±.005
ANGLES ±.5

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SAN DIEGO, CA 92110, U.S.A. FAX: (619) 686-1887 TEL: (619) 686-1888
CABLE: "BIOSPHERE"

00.QSC2245/XX
CABLE

SIZE B
DWG NO.: 005703AC
PREVIOUS: 005301AD

SCALE NONE
DATE 10/20/2000
SHEET 1 OF 1