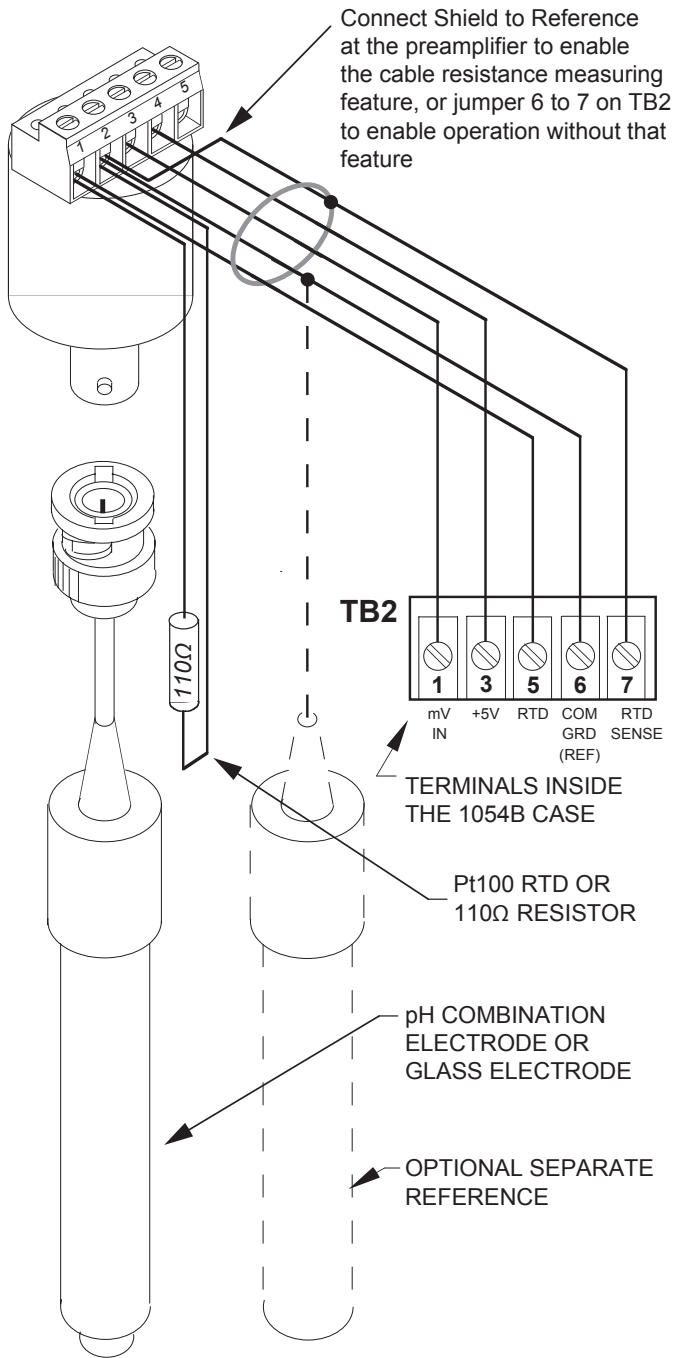


TERMINALS 1 AND 5 ARE TIE POINTS WITH NO CONNECTION TO THE INTERNAL CIRCUITRY OF THE AMPLIFIER.



## NOTES :

### GENERAL

OUTPUT TO THE INSTRUMENT FROM THE PREAMP IS UNITY GAIN, NORMAL POLARITY. 1054B CL POWER SUPPLY IS +5V.

WHEN A COMBINATION ELECTRODE IS USED, REFERENCE CONNECTION IS MADE THROUGH THE BNC CONNECTOR. USE OF A SEPARATE REFERENCE REQUIRES A CONNECTION TO TERMINAL 2, AS SHOWN IN DRAWING AT LEFT.

### TEMPERATURE COMPENSATION

STANDARD 1054B TC IS DONE WITH A Pt100 RTD ELEMENT

### SHIELDING

TAKE CARE NOT TO ALLOW THE BNC SHIELD (REFERENCE LEAD) TO CONTACT METAL PIPING OR J-BOXES AT ANY POINT, AS THIS WILL SHORT THE REFERENCE CELL TO EARTH GROUND, AND CAUSE UNSTABLE READINGS. SHIELDING OF THE CABLE FROM AMPLIFIER TO INSTRUMENT IS REQUIRED. CONNECT IT TO REFERENCE AT THE SENSOR END ONLY, AND MAKE SURE THAT IT DOES NOT TOUCH ANY OF THE OTHER LEADS.

### POWER

+3V TO +9V DC.

CURRENT DEMAND W/O LOAD < 1mA

CURRENT DRIVE: 0.5mA SINK; 25mA SOURCE.

NOTE: TB2-2 AND TB2-6 ARE BOTH DC COMMON, TO WHICH IS CONNECTED THE REFERENCE CELL. FACTORY MANUALS REFER TO THIS CONNECTION AS "GROUND" AND IT IS IMPORTANT NOT TO CONFUSE THIS WITH EARTH GROUND. DO NOT FOR ANY REASON CONNECT EARTH GROUND TO THESE TERMINALS.



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DRAWN	TITLE		
CHECKED	PREAMPLIFIER WIRING, U698-03 WITH UNILOC/ROSEMOUNT 1054B		
APPROVED	SCALE NONE	DRAWING NO.	REV.
	SHEET 1 OF 1	U698-03-1054B	