



PER CO #9038	Approved By H. PAINTER	Effective Date 11-9-04	Document No. 74432	Revision B
Originator P. FISCHER-CARNE	Checked By P. FISCHER-CARNE	Page 1 of 1	Reference	Class 53

SUBJECT: 3000 PSI 10/100 BASE ETHERNET HARNESS TEST SCHEDULE

ATTACH A COPY OF THIS TEST SCHEDULE TO THE TRAVELER OF THE HARNESS ASSEMBLY TO BE TESTED.

CAUTION - DO NOT APPLY 1000 VDC IR TEST VOLTAGE TO ETHERNET WIRES.

	LOCATION	MATE/DEMATE	PRESSURE	IR	CONTINUITY	ETHERNET
TEST #1	WATER BATH	5 MATE/ DEMATE CYCLES TO TEST CONNECTOR	0 PSI	N/A	N/A	N/A
TEST #2	HYDROSTATIC TEST TANK	MATED TO TEST HARNESS OR TEST CONNECTOR	0-3000 SEE NOTE 3	SEE NOTE 1&2	$\leq .1$ OHMS + WIRE OHMS/FT RESISTANCE SEE NOTE 1	SEE NOTE 1 & 4
TEST #3 SEE NOTE 5	HYDROSTATIC TEST TANK	UNMATED TO TEST HARNESS OR TEST CONNECTOR	0-3000 SEE NOTE 3	SEE NOTE 1&2	N/A	N/A

NOTE 1: PERFORM TESTS ON CYCLES 1 AT AMBIENT (PRIOR TO PRESSURE) AND CYCLE 5 WHILE AT PRESSURE (END OF HOLD) AND AT AMBIENT (END OF TEST).

NOTE 2: **CAUTION - DO NOT APPLY 1000 VDC TEST VOLTAGE TO ETHERNET WIRES.** PERFORM IR ON ETHERNET CABLE WIRES AT 50 VDC, APPLY VOLTAGE BETWEEN ETHERNET CABLE PAIRS, SPEC 44 PAIRS AND GROUND, PASSING ≥ 5 GOHMS. PERFORM IR ON SPEC 44 WIRE AT 1000 VDC, **APPLY THIS TEST VOLTAGE TO SPEC 44 PAIRS AND GROUND ONLY**, PASSING ≥ 10 GOHMS.

NOTE 3: PERFORM 5 HYDROSTATIC PRESSURE CYCLES. HOLD AT PRESSURE FOR A MINIMUM OF 10 MINUTE ON CYCLES 1-4. HOLD AT PRESSURE FOR A MINIMUM OF 12 HOURS ON CYCLE 5.

NOTE 4: PERFORM ETHERNET CABLE TESTING THROUGH JUMPER ETHERNET CABLING WITH THE FOLLOWING TEST EQUIPMENT SOFTWARE SETUP IN TABLE BELOW. RECORD ONLY PASS/FAIL OUTPUT OF TEST EQUIPMENT.

TEST EQUIPMENT =	OMNI SCANNER
PROJECT =	IEEE
AUTO TEST =	100 BASEX
CABLE =	CAT 5 UTP

NOTE 5: DO NOT PERFORM TEST SEQUENCE #3 ON P/N 1033248.