



A division of Thomas & Betts

77 WEST BEAVER CREEK ROAD
RICHMOND HILL, ONTARIO
CANADA L4B 3A7

TEST REPORT NUMBER 01-26
PROJECT NUMBER D-17

NO. OF PAGES 15
DATE 24-Aug-2001

REPORT OF TEST ON


**52 Super Series Primary Connector Kits
FAA AC #150/5345-26C L-823 Type I Class B, Style 3/10
Amerace Engineering Specification ES-037**

For

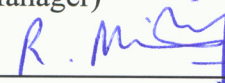
AMERACE

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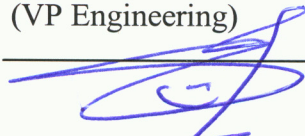
Performed by:
Boris ShemTov
(Lab/Ind. Engineering Technician)


08/24/01

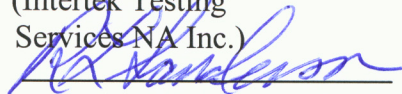
Witnessed by:
Raman Mistry
(Q.A.Manager)



Witnessed by:
Dumitru (Jim) Cotoara
(VP Engineering)



Witnessed by:
Dick Sanderson
(Intertek Testing
Services NA Inc.)



8-24-01

STATEMENTS MADE AND DATA SHOWN, ARE TO THE BEST OF OUR
KNOWLEDGE AND BELIEF, CORRECT AND WITHIN THE USUAL LIMITS
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ADMINISTRATIVE DATA

1.0 PURPOSE OF TEST	For compliance to FAA-AC #150/5345-26C dated 04/17/00, classification L-823, on Plug and Receptacle, Cable Connectors and to Amerace ES-037
2.0 MANUFACTURER AND SPONSOR	Amerace A Division of Thomas & Betts
3.0 TYPE, PART OR MODELS NO.	52 Super Series Type I, Style 3/10, Class B
4.0 DRAWING, SPECIFICATION OR EXHIBIT	FAA –type L-823 Connectors
5.0 QUANTITY OF ITEMS TESTED	Six (6) 52Super I CC4-CC4 Six (6) 52Super I ED4-ED4 Six (6) 52Super I EE4-EE4 Six (6) 52Super I FF3-FF3
6.0 SECURITY CLASSIFICATION OF ITEMS	Open
7.0 DATE (S) TEST CONDUCTED	23-Jul-2001 to 24-Aug-2001
8.0 PLACE (S) TEST CONDUCTED	Amerace, Richmond Hill, Ontario
9.0 DISPOSITION OF SPECIMENS	Store for 90 days.
10.0 REFERENCES	FAA-AC 150/5345-26C and Amerace ES-037
11.0 REPORT DISTRIBION	N/A
12.0 TEST EQUIPMENT	

Sine Wave Power Sources:	
(1)	Mechanical test fixtures
(2)	Inserts - Plugs
Metering:	
(3)	Associated Research Model 05220A portable DC Hipot 0-15 kVDC, S.R.#2829, Calibrated February 2001.
(4)	Instek Model DM-8145 Multimeter, S.R. # 9502117, calibrated February 2001.
(4)	Fluke Type K Thermocouple model 80PK-2A
(5)	Fluke Thermometer Model 52 serial # 6461267, calibrated, February 2001.
(6)	Weston, Ammeter, Model 433, S.R. #131220, calibrated January 1996.
(7)	Megger BM80, Series #950535, Calibrated February 2001.
(8)	Force gauges, Calibrated February 2001.
(9)	Continuity tester
Go/No-Go Gauges:	
(10)	Hilco gauges, S.R. #39993, Calibrated March 2001.

13.0 TESTS PERFORMED

A. As per FAA-AC #150/5345-26C advisory paragraphs:

- 4.2.2 Dielectric Test
 - 4.2.2.1 Plugs and Receptacles
 - 4.2.2.2 Connector Assembly
- 4.2.4 Mechanical Connection Test
- 4.2.5 Electrical Connection Test

B. As per Amerace Engineering Specification ES-037

- 1. Sheath Electrical connection Test
- 2. Water Tightness Test
- 3. Ground Wire and Shield Connection Resistance Test.

14.0 CONCLUSION

The tests of the six plugs and six receptacles showed that they met all requirements of the FAA Advisory Circular 150/5345-26C and Amerace ES-037 within the tolerances specified.

15.0 RECOMMENDATION

Based on the positive results from the design tests, these products are appropriate for use in AFL circuits.