

REPORT

Intertek ETL SEMKO

3933 US ROUTE 11 CORTLAND, NEW YORK 13045

Order No. 3116036

Date: February 21, 2007

REPORT NO. 3116036CRT-001

RENDERED TO:
TTK S.A.S.
7 ALLÉE DES CHÂTAIGNIERS
ZA DU BUISSON DE LA COULDRE
78190 TRAPPES
FRANCE

STANDARDS USED

NFPA 262, 2007 Edition, Standard Method of Test for Flame Travel and Smoke of Wires and Cables for Use in Air Handling Spaces, approved August 17, 2006.

NFPA 70, 2005 Edition, National Electrical Code (NEC).

The test procedure covered by this standard was originally developed by Underwriters Laboratories Inc. and published as UL 910, Standard for Safety Test for Flame-Propagation and Smoke-Density Values for Electrical and Optical-Fiber Cables Used in Spaces Transporting Environmental Air.

TEST

Test for Flame Propagation and Smoke Density Values for Electrical and Optical Fiber Cables Used in Spaces Transporting Environmental Air.

AUTHORIZATION OF TEST

Mr. Stefan Balatchev, representing the client, TTK S.A.S., authorized the test with purchase order no. SB070206/1.

DESCRIPTION OF SAMPLE

The sample was submitted and identified by the client as FG-AC Water/Acids sensing cable.

An independent organization testing for safety, performance, and certification.

INTRODUCTION

This report describes the results of the NFPA 262, Test for Flame Propagation and Smoke Density Values for Electrical and Optical Fiber Cables Used in Spaces Transporting Environmental Air, performed on samples submitted by TTK S.A.S. and previously described.

The specimens were received February 15, 2007 in good condition, prepared, and test evaluations were conducted at Intertek ETL SEMKO, Cortland, New York.

SUMMARY OF TEST METHOD

This test method uses an apparatus as specified in NFPA 262. A specimen holder was used to expose the test specimens; the holder, 11.25-in. (286-mm) wide and 24 feet in length, was filled with one layer of test specimens. The specimens were exposed to approximately $294,000 \pm 7,300$ Btu/hr (86.0 kW) fire, 4.5 ft (1.4 m) long, for a period of 20 minutes, with a draft of 240 ± 5 ft/min (73 m/min) through the chamber. The distance the flame traveled along the specimen and the amount of smoke generated, were reported.

COMPLIANCE REQUIREMENTS

The requirement assessed to the product tested is in accordance with NFPA 70 (NEC), as described by the appropriate type designated for the product.

RESULTS

Results are reported in APPENDIX A.



CONCLUSION

The sample submitted by TTK S.A.S., when tested in accordance with NFPA 262 on February 20, 2007, achieved the following results:

Test 1

PEAK	PEAK	AVERAGE
FLAME	OPTICAL	OPTICAL
SPREAD 2.0 FT	DENSITY 0.02	DENSITY 0.01
Requirement: 5 FT.	Requirement: 0.5	Requirement: 0.15

Test 2

PEAK	PEAK		AVERAGE	
FLAME	OPTICAL		OPTICAL	
SPREAD 2.0 FT	DENSITY	0.03	DENSITY	0.01
Requirement: 5 FT.	Requirement:	0.5	Requirement:	0.15

The sample was judged to be in compliance with the requirements as outlined in NFPA 262, 2007 Edition, Standard Method of Test for Flame Travel and Smoke of Wires and Cables for Use in Air Handling Spaces.

Test Conducted by:

Brian Connor Technician

Cabling Products Testing Group

Reviewed and Approved by:

James Tanner

Operations Manager

Cabling Products Testing Group

James Janner

Attachment: APPENDIX A