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Salt mist corrosion (endurance) test report summary

Testing organisation	Finecom Technology
Report no:	FCTQC181008001
Cable model:	SCJKBH-1 A1b(0.9H)-3.3-R / FireFiber AT
Test standard	GB16280-2014 Linear heat detection system
Test dates:	08/10/2018 to 18/10/2018

1 Test type

☐ Incoming Inspection ☐ Process inspection ■ Finished product test ☐ 3rd party test

2 Test Conditions

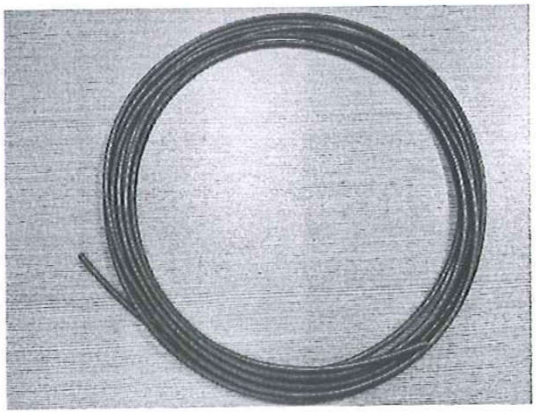
Test name	Test condition				
Salt mist (endurance) test	Temp °C	NaCl mass fraction	Relative humidity	Duration (h)	Working status
	40±2	(5±1) $x10^{-2}$	90~96	(2+22) $x 3^2$	No power

3 Test Results

A 4.4m temperature-sensitive optical cable was used for the test according to the test conditions in the above table and the sample was sprayed continuously for 2 hours at a temperature of 15°C~35°C. After spraying, the fiber optic cable was placed into a heat/humidity chamber with a temperature of 40°C±2°C and a relative humidity < 50% for 22 hours for 3 consecutive periods. On completion of testing the samples is removed out and restored to normal atmospheric pressure for 7 days. It was then inspected for signs of damage and corrosion.

The cable was then coiled to a diameter of 300mm of 3 coils and released naturally and showed no mechanical damage to the specimen.

Picture from after test



Approved: **Inspection:** **Date:** 18/10/2018

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