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SO_2 corrosion (endurance) test report summary

Testing organisation	Finecom Technology
Report no:	FCTQC181008002
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 06/11/2018

1 Test type

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

2 Test Conditions

Test name	Test condition				
SO_2 (endurance) test	Temp °C	SO_2 mass fraction	Relative humidity	Duration (d)	Working status
	25±2	(25±5) $x10^{-6}$	90~96	21	No power

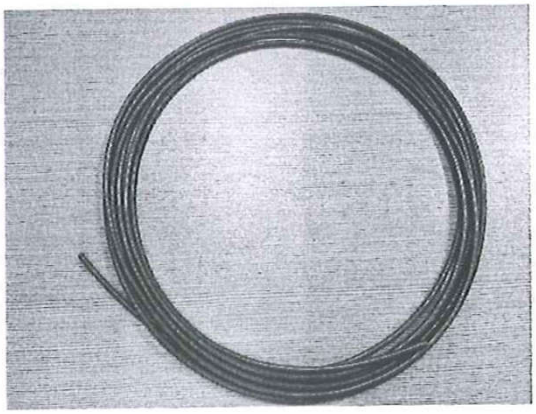
3 Test Results

A 4.4m temperature-sensitive optical cable was used for the test according to the test conditions in the above table. After testing, the sample showed no obvious damage to the coating.

For the corrosion testing the sample was placed in a regulated heat/humidity chamber at a temperature of 40°C±2°C and a relative humidity of less than 50% for 16 hours, and then removed and allowed to recover for 7 days at room temperature.

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



BANDWEAVER TECHNOLOGY Company No. 10758448 LIMITED

Approved: **Inspection:** **Date:** 06/11/2018

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