Attention: Rob Dickerson TransNet NZ Ltd P O Box 39 383 Howick Auckland 2145



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# **Catenary Wire – Strength in Tension**

### Client:

TransNet NZ Ltd

Attention: Rob Dickerson

## **Client Instructions:**

To measure the strength in tension of the PVC coated Catenary Wire submitted.

Items Tested: TNCAT 3.2 BK (Black) Catenary Wire TNCAT 2.6 (Green) Catenary Wire

### **Test Method:**

The tensile Strength of the Catenary Wire samples were measured as follows:

Both the TNCAT 3.2 BK (Black) and the TNCAT 2.6 (Green) wires were tested following the method as described in BS EN 10218-1:2012 Steel Wire and Wire Products Test Methods.

A length of wire was gripped using a jig held in the jaws of a Shimadzu REH100TV Universal testing machine and the load applied until the wire broke.

The load in Newtons was then recorded and converted to kg.

# **Findings:**

Testing carried out 26th May 2014. The values below are the average of three (3) tests.

TNCAT 3.2 BK (Black) Catenary Wire Applied load = 188.3kg

TNCAT 2.6 (Green) Catenary Wire Applied Load = 95.1kg

**Tested:** T Manuela & D Hotham

Checked: D Hotham

Assistant Laboratory Manager/QA Manager