

5 January 2004

BBC Cable Engineering Co Ltd
C/oE engineering (HK) Ltd
Unit 304B-306A, Island Place Tower
510 Kings Road
Hong Kong
Attention: Mr Benny Mok

Dear Sirs

**KCRC East Rail Extensions
Contract LCC300 – Lok Ma Chau Terminus & Associated Works
Electrical Installation – Engineers' comments to single core cables**

Thank you for Mott Connell's Engineer's Response Form No LCC300/ERF/NA/11105/B/BEM which has been passed to us for an answer.

When BS7211 was first issued it was based on BS6004 for all tests except the Low Smoke requirements. Therefore the voltage rating of this cable is suitable for 600/1000V when enclosed in conduit, ducting etc.

Prior to European Harmonization in 1975 BS6004 was rated at 600/1000V. When this cable was harmonized, no change was made to this cable other than its' voltage designation. The insulation was unchanged, the grade of insulation material was unchanged and the voltage tests were unchanged. Therefore the cables were identical.

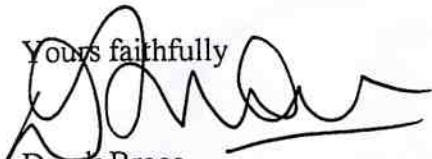
There were issues in Europe in agreeing what the voltage designation should be, since every country had a different voltage system and wiring practice. Therefore the ultimate voltage designation agreed was a political/committee decision rather than a technical decision.

The only comment on 600/1000V that remains in the present British Standard (BS6004:1995) for this cable is in the annex on guide to use where it states:-

'Suitable for use in channels with cover. Suitable for fixed protected installation in or on lighting fittings and inside appliances, switchgear and control gear, for voltages up to 1000V a.c. or up to 750V to earth d.c.

We trust this clarifies the situation.

Yours faithfully


Derek Brace
Export Manager