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Specification for Aluminium Cored Insulated Cables for Railway Signalling Power Supplies

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BRITISH RAILWAYS BOARD

B.R. SPECIFICATION NO.880



ALUMINIUM CORED INSULATED CABLES

for

RAILWAY SIGNALLING POWER SUPPLIES

1. Definition

Aluminium conductor power cables, which shall embody sector-shaped cores, P.V.C. insulated, shall be selected from BS.6346 in the undernoted range of sizes:-

TWIN 600/1000 v cables - BS.6346 table 7 (Appendix 'A' attached) - cores coloured red and black.

FOUR CORE 600/1000 v cables - BS.6346 table 11 (Appendix 'B' attached) - cores coloured red, yellow, blue and black.

2. Use Limitations

The above cables must be used only for the distribution of signalling power as their limited thickness of insulation makes them unsuitable for general signalling usage.

3. Conductor Area Limitations

Cables with a smaller cross-sectional conductor area of 16 square mm. should not be used in this form.

4. Make-up of Larger Capacity Cables

The four-core cables are used to make twin-core cables by paralleling the cores in pairs. This feature is needed where conductors larger than 95 square mm are required.

5. Cable Designations

Cables in this specification are designated by the rated voltages expressed in the form of E_0/E where E_0 is the power-frequency voltage to earth and E is the power-frequency voltage between conductors for which the cable is designed, i.e. 600/1000V.