

Category 1 Standard

S1108 DC Traction Feeder Cables

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MAYOR OF LONDON



Contents

1	Purpose	3
2	Scope	3
3	Requirements	3
3.1	Fitness for purpose	3
3.2	Electrical performance	3
3.3	Life expectancy	4
3.4	Environment	4
3.5	Propagation of damage	4
3.6	Construction	4
3.7	Type Testing	7
3.8	Product approval	8
3.9	Evidence of compliance	8
4	Responsibilities	8
5	Supporting information	8
5.1	Safety considerations	8
6	References	8
6.1	References	8
6.2	Abbreviations	9
6.3	Definitions	10
6.4	Technical content manager	10
6.5	Document history	10

1 Purpose

- 1.1 The purpose of this Standard is to define the minimum requirements for DC traction feeder cables

2 Scope

- 2.1 This Standard:
- a) defines the minimum performance requirements for single core traction feeder cables of cross sectional area 500mm², 630mm² or 935mm² operating up to a nominal voltage of 750V DC on the London Underground network;
 - b) covers limited fire hazard (LFH) cables which can be used in all areas.
- 2.2 The cables covered by this Standard shall be used outdoors (or both outdoors and indoors in the case of LFH cables) as a power cable forming any part of the DC traction power supply circuit originating within a substation and ending with connection to the traction conductor rail, a connection from the conductor rail to a depot shore supply system or as a connector between two lengths of conductor rail. This includes laying unprotected over track ballast.
- 2.3 This Standard does not apply to the Power Service Contractor.
- 2.4 This standard replaces 1-108 A2.
- 2.5 This Standard supports the following LU Policies:

Note: The identification of Policies shown below shall have no material impact upon Infraco or other Suppliers beyond the obligations already contained in this Category 1 Standard. They are provided for LU reference purposes only.

Number	Title	Version
1-01104-004	Service Operations	A1
1-01102-001	Health and Safety	A1
1-01102-002	Safety Decision Making	A1

3 Requirements

3.1 Fitness for purpose

- 3.1.1 The cable design, construction and materials shall be suitable for the purpose for which they are intended.
- 3.1.2 The cables, as supplied, shall at all times conform in all respects to the requirements as detailed in this Standard including the Type Test requirements regardless of manufacturing tolerances.

3.2 Electrical performance

The cables shall be suitable for continuous operation on circuits operating up to a nominal voltage of 750V DC in accordance with BS EN 50163.

Note: During normal operation transient spikes of up to 5000V may occur, see LU standard S1115 for details.