

1 Introduction

1.1 Scope

This standard specifies the accepted criteria to be employed when designing, procuring or installing signalling cables routes, cable pits and signalling infrastructure foundations on the Australian rail network.

For the purpose of this standard signalling cables includes all cable used to interface with signalling infrastructure.

This standard covers the materials, types, design and installation requirements for signalling cable routes, cable pits and signalling infrastructure foundations to ensure technical and safety integrity.

This standard is intended to be used by rail infrastructure managers (RIMs), designers and installers of signalling systems (including communications for signalling purposes) and suppliers of signalling cable routes, cable pits and signalling infrastructure foundations.

This standard is intended to be applied for new installations and upgrades; it need not be applied retrospectively.

This standard also includes the requirements for the following:

- (a) Buried cable routes;
 - i. cables directly buried;
 - ii. cables in conduits.
- (b) Surface cable routes;
 - i. ground level troughing;
 - ii. galvanised steel troughing;
 - iii. galvanised steel pipe used as conduit.
- (c) Multi duct systems.
- (d) Cable ladder routes.
- (e) Under track crossings (UTX).
- (f) Under road crossings (URX).
- (g) Cable pits.
- (h) Signal foundations.
- (i) Gantry foundations.
- (j) Ground frame foundations.
- (k) Location case and equipment room foundations.

1.2 Exclusions

The following items are excluded from this standard:

- (a) Aerial cable routes.
- (b) Communications cables in dedicated routes.
- (c) Rail line crossings for tail cables, track connections and bonding.
- (d) Dedicated HV routes.