ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
L746291 - CONTROL CABLES

Learning Legacy Document

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2.0	03-Jun-2014	[redacted]	[redacted]	[redacted]	Corrected Attribute Names Added Descriptions Corrected DP Corrected Attribute Types Attribute Removed Asset Tag Identification Section Updated
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9.0	20-Apr-2017	[redacted]	[redacted]	[redacted]	Attribute Replaced
10.0	25-Apr-2017	[redacted]	[redacted]	[redacted]	LRS Codes Updated

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1 Introduction

1.1 Asset Details

Class Code: L746291

Class Name: Control Cables

Class Lineage: Construction Products>Services>Electric power and lighting services products>Distribution devices>Conductors>OHL Wires>Control Cables

1.2 Description

A control cable carries control signals for the control and monitoring of systems i.e. ventilation, signalling, SCADA etc.

1.3 Related Functions

All information on the configuration of asset classes (L-Class) to functions is contained within the latest revision of the Asset Data Dictionary Master Configuration document (eB ref: CRL1-XRL-Z3-ADDSD-CR001-50186)

2 Asset Tag Identification Rules

Assets will be identified as required by the Asset Identification Standard (CRL1-XRL-O6-STD-CR001-00031) in the following format:

<LCS Code>-<Function Code>-<Incremental number to ensure uniqueness>

e.g. CR076-BAF-12345

Information and guidance on the standard naming convention for all asset classes is contained within the latest revision of the Asset Naming Convention Document (eB ref: CRL1-XR1-Z3-ADDSD-CR001-50413).

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2.1 Example Images

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3 Attributes

3.1 Generic Attributes

All Classes of assets will have a set of Generic Attributes for which data is collected without exception. Full details relating to these assets can be found at:

AD4 – Generic Attributes CRL1-XRL-Z3-ADDSD-CR001-50069

3.2 Class Specific Attributes

Below is a table of the further specific attributes which are associated with this asset class.

Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places (nu Only)	Defined Values List (pd only)	Description
Armour Material		PD		Steel Wire Aluminium Wire Unarmoured Double steel tape	Material used for armour
Control Cable Insulation Material		PD		EPR ethylene propylene rubber XLP cross linked polyethylene PE Polyethylene LSZH	Insulation material
Control Cable Screen Material		PD		Aluminium Tape Copper Tape	Material used for the screen layer of the cable
Cross Sectional Area (Square Millimetres)	Square Millimetres	NU	0		Conductor Cross Sectional Area

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Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places (nu Only)	Defined Values List (pd only)	Description
Diameter (Millimetres)	Millimetres	NU	0		Nominal Conductor Diameter
Full Load Current (Amps)	Amps	NU	0		**Full Load Current** or current-carrying capacity is defined as the maximum amount of electrical current a conductor or device can carry before sustaining immediate or progressive deterioration; also described as, ampacity It is the RMS electric current which a device or conductor can continuously carry while remaining within its temperature rating.
Is Fire Compliant		PD		Yes No	Fire compliance of the cable
Number of Cores (#)	#	NU	0		A cable core is the portion of an insulated cable lying within the protective covering or coverings.
Number of Strands per Conductor (#)	#	NU	0		The number of uninsulated strands twisted together to form the conductor.
Operating Temperature Maximum (Degrees Celsius)	Degrees Celsius	NU	2		Maximum operating temperature of the cable
Operating Temperature Minimum (Degrees Celsius)	Degrees Celsius	NU	2		Minimum operating temperature of the cable
Outer Sheath Material		PD		LDPE HDPE PVC LSZH	Material used for the outer sheath of the cable

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Attribute Name	**Base Unit or Formula**	**Value Type** (See Below)	**Decimal Places** (nu Only)	**Defined Values List** (pd only)	**Description**
Resistance (Ohms per Kilometre)	Ohms per Kilometre	NU	0		
Sheath Thickness (Millimetres)	Millimetres	NU	0		Sheath Thickness of the cable
Voltage (Volts)	Volts	NU	0		The maximum safe operating voltage of the connector over its rated frequency range and atmospheric conditions.
From Meterage (Metres)	Metres	NU	2		The Meterage (Chainage) of the start point of the asset. To be populated only when the start of the asset is located on track.
To Meterage (Metres)	Metres	NU	2		The Meterage (Chainage) of the end point of the asset. To be populated only when the end of the asset is located on track.

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Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places (nu Only)	Defined Values List (pd only)	Description
LRS Code		PD		C.EB C.EB.CRW5 C.EB.CR1 C.EB.CR7 C.EB.TBC C.WB C.WB.CRW9 C.WB.CRW6 C.WB.CR2 C.WB.CR5 C.WB.TBA C.WB.TBB CNE.EB CNE.WB CSE.EB CSE.EB.CR11 CSE.WB CSE.EB.CR13 CSE.WB.CR15 Non Track	The Crossrail Linear Referencing Standard code (CRL1-XRL-O6-STD-CR001-00026) where the asset is located. When the asset is not located on track then non track should be selected. The LRS codes are as follows: C.EB - Central Section Eastbound C.EB.CRW5 - Crossover between W5 and W4 Points C.EB.CR1 - Crossover between C1 and C4 Points C.EB.CR7 - Crossover between C7 and C8 Points C.EB.TBC - Turnback C C.WB - Central Section Westbound C.WB.CRW9 - Crossover between W9 and W8 Points C.WB.CRW6 - Crossover between W6 and W3 Points C.WB.CR2 - Crossover between C2 and C3 Points C.WB.CR5 - Crossover between C5 and C6 Points C.WB.TBA - Turnback A C.WB.TBB - Turnback B CNE.EB - Central Section North East Spur Eastbound CNE.WB - Central Section North East Spur Westbound CSE.EB - Central Section South East Spur Eastbound CSE.EB.CR11 - Crossover between C11 and C12 Points CSE.WB - Central Section South East Spur Westbound CSE.EB.CR13 - Crossover between C13 and C14 Points CSE.WB.CR15 - Crossover between C15 and C16 Points Non Track - Non Track Assets

pd = Predefined List (Listed Values Only)
nu = Numeric (dp and number format can be stipulated)
ch = Free text (Max 255 Characters)
da = Date (dd-mm-yyyy)
me = Memo (Free text 1GB Limit)

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4 Performance Data

This section is to be used to specify the performance data to be gathered from this Class of asset when in operation. To be populated once the performance measures have been agreed with Infrastructure Managers.

5 Labelling

Information and guidance on the standard labelling convention for all asset classes is contained within the latest revision of the Asset Naming and Labelling Convention Document (eB ref: CRL1-XR1-Z3-ADDSD-CR001-50413).

6 Other Information

Not applicable

7 Reference Material

- Asset Data Dictionary Master Configuration document - CRL1-XRL-Z3-ADDSD-CR001-50186
- Asset Identification Standard - CRL1-XRL-O6-STD-CR001-00031
- AD4 – Generic Attributes - CRL1-XRL-Z3-ADDSD-CR001-50069
- Asset Naming Convention Document - CRL1-XR1-Z3-ADDSD-CR001-50413

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8 Crossrail Technical Approvals

Name	Role	Date
[redacted]	Systemwide Mechanical & Electrical Lead Engineer	19-Sep-2014

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