

TE Connectivity – Preformed Dead-End Performance Issue

Interim Instruction

AMS 2024-001

Standards and Plant

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1. TE CONNECTIVITY - PREFORMED DEAD-END PERFORMANCE ISSUE

1.1 Background

The [Western Power Distribution Equipment Bulletin Issue 73 May 2023](#) has advised for the performance issues identified on the **TE Connectivity** helical termination stock items, it is also known as preformed dead-end used for conductor termination on poles.

The affected stock codes are shown below:

Stock Code	Description
CF0520	HELLICALLY FORMED; 7/3.00 AAC
CF0522	HELLICALLY FORMED; 7/3.75 AAC; HELICAL DEAD END
CF0553	HELLICALLY FORMED; CADMIUM COATED;7/2.00 CU
CF0661	HELLICALLY FORMED; 3/2.75 GALV STEEL
CF0669	HELLICALLY FORMED; 7/1.60 GALV STEEL
CF0680	HELLICALLY FORMED; 7/1.25 GALV STEEL
CF0758	HELLICALLY FORMED TERM; 19/3.25 AAC & 19/3.25 AAAC

Table 1- All TE dead-ends currently used by Horizon Power

*Note: Western Power had successfully conducted testing of all the other **TE connectivity** dead-ends, excluding the 7/14 Cu version, to ensure that no inherent network concerns remain, and no additional care is required when working on the conductor near any of the TE dead-ends on their networks. The testing involved a range of three pull tests to > 50% of the conductor CBL, with removal and re-application after each pull.*

*These dead-ends units are all manufactured using a similar grit found in the copper dead-end which has contributed to the loss of holding capacity experienced. For this reason and to eliminate any further potential risks, a standardised approach has been taken to replace all the **TE connectivity** dead-ends with **Preformed Line Products (PLP)** units, with their proven track record.*

It is also noted that while working directly on the 7/14 Cu conductor, and potentially increasing the conductor tension, the ties at either end of the span must be monitored to avoid any visible deformation (elongation or compression). This precaution is to ensure the tension is not transferred to the dead-end located in the adjacent span.

1.2 Notification

All **TE connectivity** dead-ends stock code listed in the Table1 have been recalled and replaced with **PLP** versions. Any **TE connectivity** dead-ends found that have not been recalled (i.e. on trucks or off-system/squirrel stores) must be destroyed/cut and discarded, to avoid inadvertent reuse.

Stock availability for off-system replacement may limit the immediate replacement of these units. In this event all the **TE connectivity** dead-ends, except CF0553 (used for 7/14 Cu conductor) may still be used.

1.3 Actions and Responsibilities

Action:	Familiarisation and Compliance with this communication
Responsibility:	AM, WDM, Crews leaders and Construction crews, Logistic officers
Action:	Familiarisation with this Communication
Responsibility:	Asset Services
Action:	Familiarisation with this communication
Responsibility:	Supply Chain
