

TECHNICAL BULLETIN

TB 0180

Overhead line fittings

Background

Endeavour Energy's supplier for a large number of overhead line fittings has recently changed to MacLean Power Systems (formally known as Dulhunty Power).

You may notice that the appearance or dimensions of some parts will change. With the exceptions noted below, the new parts are expected to be functionally equivalent.

Clevis thimbles

- There was a compatibility issue between the new clevis thimbles and the tongue on long rod insulators. This led to temporary delays in fulfilling orders but the issue has now been resolved.
- The clevis thimble currently provided for stock code 1032823 may be too large for certain small helical deadends to fit around. We are working with the supplier to introduce a new item with a smaller thimble.

CCT ties

- The CCT ties initially provided by the new supplier were PVC and larger in diameter than the ties used previously. The larger diameter does not allow the discharge connector for a current limiting arcing horn (CLAH) to be attached over the tie.
- Steel ties with a plastic coating are now being supplied and these will fit under the discharge connector.
- Existing stock of the PVC ties may be used on poles without a CLAH.

Parallel groove (PG) clamps

- Feedback has been received that the nuts and bolts on the new PG clamps are more difficult to work with under live line conditions. We are working with the supplier to find a more suitable arrangement.
- Some PG clamps models are shorter in length than those used previously however they still meet the minimum requirements and are suitable for use on the conductors for which they are approved.

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Date: 24 June 2015

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Helical deadends

- As parts from different manufacturers do not always cover identical ranges of conductor sizes or types, a number of stock codes are being altered to align with the new supplier. Changes are proposed to be implemented to minimise or prevent this issue from occurring in the future.
- Going through this transition please ensure that the correct deadend is used when terminating conductors. Applying the wrong size deadend may result in the conductor slipping out with serious safety and reliability consequences.
- Helical deadends have a tag attached indicating the conductor type(s) that it is suitable for. They are also colour coded according to the table below:

Strand diameter (mm)	Colour
1.00	Black
1.25	Green
1.75	Purple
2.00	Yellow
2.25	Brown
2.50	Blue
2.75	White

Strand diameter (mm)	Colour
3.00	Red
3.25	Orange
3.50	Purple
3.75	Black
4.25	Brown
4.50	Green
4.75	Blue

- Details of existing, deleted and new stock codes for helical deadends are provided on the following page.

Further information

Enquiries about availability of stock items should be directed to Procurement.

All other enquiries should be directed to Network Mains. Feedback from users of the equipment is welcomed and additional technical bulletins will be issued to address any further issues with overhead line fittings as they are identified and resolved.

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Deleted stock codes

Helical deadend stock code
SD11172
1011145
1032124
1032136
1032148

New stock codes

Helical deadend stock code	Conductor(s) suitable for this deadend
1565829	7/1.75 AAC/AAAC
1565852	7/2.50 AAC/AAAC (Leo/Chlorine)
1565886	7/3.75 AAC/AAAC (Mars/Helium)
1565811	3/4/1.75 ACSR (Quince)
1565860	3/4/2.50 ACSR (Raisin)
1565878	6/1/2.50 ACSR (Almond)
1565928	4/3/3.00 ACSR (Sultana)
1565910	6/1/3.00 ACSR (Apple)
1565902	4/3/3.75 ACSR (Walnut)
1565894	6/1/3.75 ACSR (Banana)
1565837	7/1.63 (7/1.064") CU
1565845	7/1.75 CU

Unchanged stock codes

Helical deadend stock code	Conductor(s) suitable for this deadend
SD10036	7/2.25 AAC/AAAC
1032033	7/3.00 AAC/AAAC (Libra/Fluorine)
SD10257	7/3.40 (7/1.134") AAC/AAAC
SD10249	7/4.50 AAC /AAAC (Mercury/Hydrogen)
SD10060	7/4.75 AAC/AAAC (Moon/Iodine)
SD10230	19/3.25 AAC/AAAC (Neptune/Krypton)
1032082	19/3.75 AAC/AAAC (Pluto/Neon)
1032094	19/4.75 AAC/AAAC (Taurus/Oxygen) - limited tension
SD10079	61/3.25 AAC (Uranus)
SD11229	6/1.89+1/3.37 ACSR (Goldeye)
1032100	6/4.75+7/1.60 ACSR (Cherry)
SD11180	30/7/2.50 ACSR (Grape)
1032112	30/7/3.00 ACSR (Lemon) - limited tension
1011157	7/2.00 CU
1011169	7/2.75 CU
1011170	19/2.00 CU
1011182	19/3.00 CU
1019582	7/1.60 SC/GZ
SD11059	3/2.00 SC/GZ
SD11040	3/2.75 SC/GZ

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