TECHNICAL BULLETIN

TB-0175

Street light and LVABC mounting on conductive transmission poles

Background

Streetlight fittings, streetlight conductor and LVABC mounted on conductive concrete and steel transmission and sub-transmission poles are required to have an effective insulation level that satisfies the maximum earth potential rise of the pole.

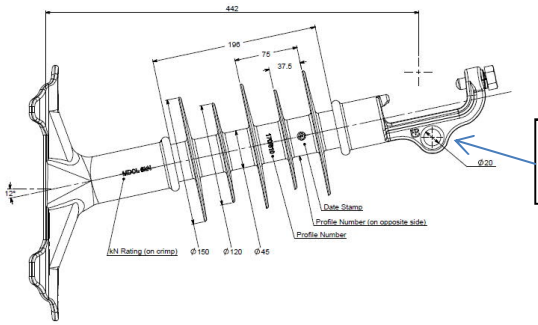
To satisfy this requirement, long-rod insulators (stock code 1543297) are available for the support of LVABC (termination and thru-strain constructions) however no suitable insulator was available for suspension constructions or for the support of the bond in a thru-strain construction.

To address the installation of a streetlight fitting on these poles, an insulated SL mounting bracket was introduced however there were limitations on its use and it was found to be unsuitable for the large SL outreach brackets in common use.

Actions

LVABC suspension and bond:

A new stand-off insulator has been approved and is now available in store (stock code 1564160). The LV ABC suspension clamp is attached with bow shackles to the stand-off insulator by way of a 20mm dia hole as shown below.



LV ABC suspension clamp attachment point

Street light bracket outreach support:

A new bracket has been approved consisting of four (4) outdoor stand-off insulators (stock code SY10204) mounted between two (2) steel sections (stock codes 1564814 for the base channel and 1564806 for the top plate). The arrangement is suitable for mounting ALL the **Aluminium** SL outreach brackets set out in detail in drawing 353702 and assembly of the arrangement is set out in detail in Drawing no.397450 sheets 1 and 2 (attached).

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Endeavour Energy

Care must be taken to ensure the associated street light wiring maintains a minimum clearance of 75mm from the conductive pole surface. Depending upon the position of the LV conductors with respect to the SL mounting bracket, it may be necessary to support the wiring with stand-off insulators (stock code SY10204). Where this is necessary, a LVABC strain clamp (Stock code SC10244) shall be used to fasten the wiring (2 X 25mm^2 LVABC) to the stand-off insulator and two (2) HSC IPC's used to connect the LVABC to the SL bracket wiring as set out in Drawing no. 397450.