

# QUALITY COUNTS

## Team Scotland Quality Newsletter - Fibre Special

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- And finally...

### Introduction

Hi everyone, and welcome to the new Team Scotland Quality Newsletter. I am the new Regional Quality manager for Scotland, but since joining Openreach as an SD engineer 14 years ago I have always believed that Quality is at the heart of everything we do in Openreach. By leading the way on our Quality of Personal Workmanship and showing pride in what we do day-in-day out ensures we put our customers at the heart of every decision we make.

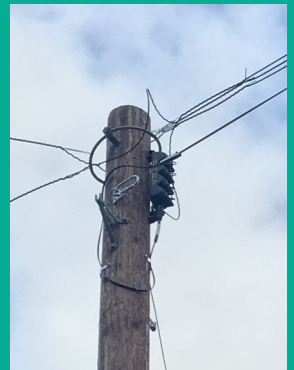
**Nick Harris, Network Reliability and Quality Manager, Scotland**

## Top Pole Envelope

A common issue encountered by the build teams is old Crown ring heads. In most cases there is enough space to fit CBT's in the space above the crown ring as long as you can fully attach the top and bottom screws. If not then it needs to be removed, the process for which is detailed in [AEI/AEC/B329](#)



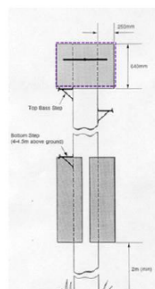
While this CBT is in the right place the cable has been attached to a bracket rather than directly to the pole ring taking up valuable top pole envelope space unnecessarily.



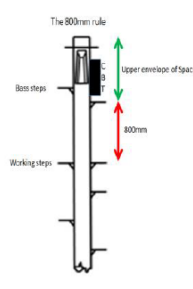
Here is the latest update to working and fitting equipment in the top pole envelope along with the revised overhead policy changes. These should hopefully make our fibre roll out simpler while maintaining the quality of the network and safety of everyone working in it.

### 800MM Rule for pole top equipment

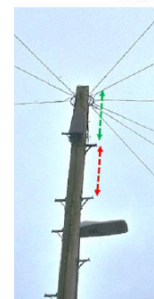
Previous standard



New standard



Example



Example:

Existing Block would have breached old rule as it extends below upper Boss Step.

Is compliant under new rule as is above the 800mm line

This is a Cu Block, but same would apply if Fibre CBT (Openreach or a PIA CP)

- Insufficient space at pole top causing delays and in case of PIA, driving Network Adjustments (NA's), some of which not actually req'd due to misunderstanding of current pole top policy
- Policy revised. Now launching simple new rule, which effectively enlarges the permitted space envelope, without compromising safety of climbers.
- New Policy will apply to both existing (Copper or Fibre) equipment and any new build or maintenance work.
- For full details & important safety rules, you must read [AEI/AEC/B339](#)

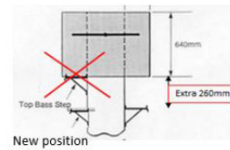
# New Overhead Policy Changes - Effective Immediately

## New Pole Stepping Policy

Old configuration



New



c55,000 newly installed poles PA will be provided with extra space at pole top

Reducing the likelihood of a network adjustment request

- Lack of space at pole top causing delays and Network Adjustments (NA's)
- Policy revised and new engineering standard for Pole Stepping introduced requiring both Bass Steps to be located level with each other at the lower Bass Step position
- This nil cost change will see all newly placed poles (Build or Pole Renewal) with both Bass Steps provided in the lower position.
- Independent (Praxis) Risk Assessment carried out to consider potential impact to climbers - No issues arising
- For full details & important safety rules, you must read [AEI/AEC/B338](#)

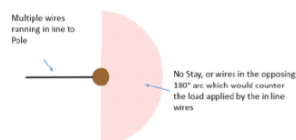
## Fibre Build OVERSPAN



- Due to instances of blocked duct or where no duct route exists, we are changing the policy on maximum span length for overhead fibre pole to pole build.
- FOR NON ROAD CROSSING WIRES – Spans of up to 85M are now permitted.
- FOR WIRES CROSSING A CARRIAGEWAY – Spans of up to 75M are now permitted as long as 6.5M wire height is achieved.
- For full details & important safety rules, you must read – [AEI/AEC/B337](#)

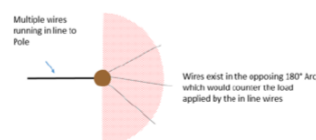
## DILOR (dropwires in line of route) Change to policy

Previous Policy



Wires Crossing Carriageway		
	Light Pole	Medium Pole
Max wires	3	4

New Policy



Wires Crossing Carriageway		
	Light Pole	Medium Pole
Max wires	8	12

- To avoid pole overload, we have to limit numbers of wires running in line of route. But old policy rules were very restrictive.
- Key change - Where there are wires on the pole which provide a countering effect to the DILOR load, more wires in line of route are permitted.
- Initial feedback from field teams very positive and indicates the extra wire allowance is making a real difference – i.e. Less need for Stays or Pole upgrades and less delays to roll out.
- For full details & important safety rules, you must read [AEI/AEC/B335](#)

## Joint Box Capacity

Our footway boxes come in various shapes and sizes and unsurprisingly have limitations on what can be fitted into them. In some cases it's possible to squeeze quite a lot into a box and shut the lid, you just can't work on it later. A good example is this JRF4 where the large node and CBT just fit. Unfortunately you won't be able to attach a connectorised tail to the CBT without damaging it as it's resting on top of the joint.

XL Node	Large Node	Medium Node	Small Node	CBT
1				
	1			
		1		1
			1	1
				2

There is also a copper joint underneath the fibre kit. What can and can't be fitted in each size of box is detailed in ISIS [NWK/LNK/C573](#).

This table shows what combinations of fibre kit can be fitted in a JRF4



## TM Joint Port Kits



Something else that crops up quite a lot is cables and blanking plugs not being correctly secured in the port kits as they enter a TM joint. Each cable and blank has to have its own individual cable strap to ensure they don't work loose over time.



### Contact Us

There are Network Assessors across the whole country now so if you need any help or advice then please give any of us a call. We are nominally badged to the areas shown but if you can't get hold of the assessor for your patch then you can contact any of the others.

If you have any general quality related questions or queries then please click [here](#) to email the team.

- **Brian MacCallum 07918884695, Paul Holmes 07484531391 & Allan Fraser 07802191668** (H&I)
- **Paul Fraser 07740011405** (North East Scotland)
- **Graeme Cochrane 07802772479 & Colin Barnes 07802191800** (North Central Scotland)
- **John McCormick 07710007309** (South East Scotland)
- **Douglas Carson 07436277705** (Central Scotland)
- **Michael O'Halloran 07702684531** (South West Scotland)
- **William Devlin 07802191435** (South Central Scotland)

Any questions about contracts and civils issues can be put to the following experts:

- **Annmurie Mulvey 07710359381** (West of Scotland)
- **Roger Masterman 07889828453** (West of Scotland)
- **Malcolm Maiden 07802768791** (East of Scotland)
- **Bill Beveridge 07889315505** (East of Scotland)
- **Mike Murray 07711439447** (North of Scotland)
- **Willie Ferguson 07802191474** (North of Scotland)

If you have any ideas or suggestions for items you would like to see covered or questions regarding any of the content then please get in touch with either Willie Devlin or Douglas Carson.