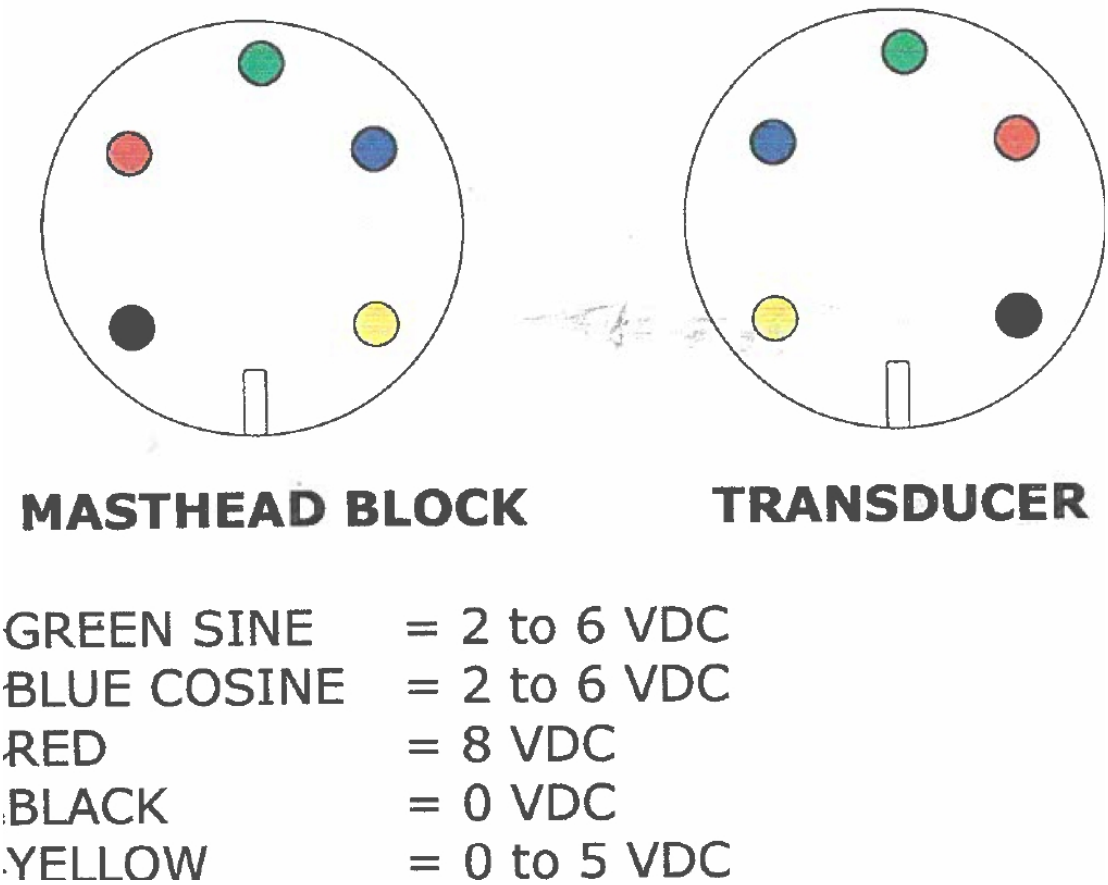
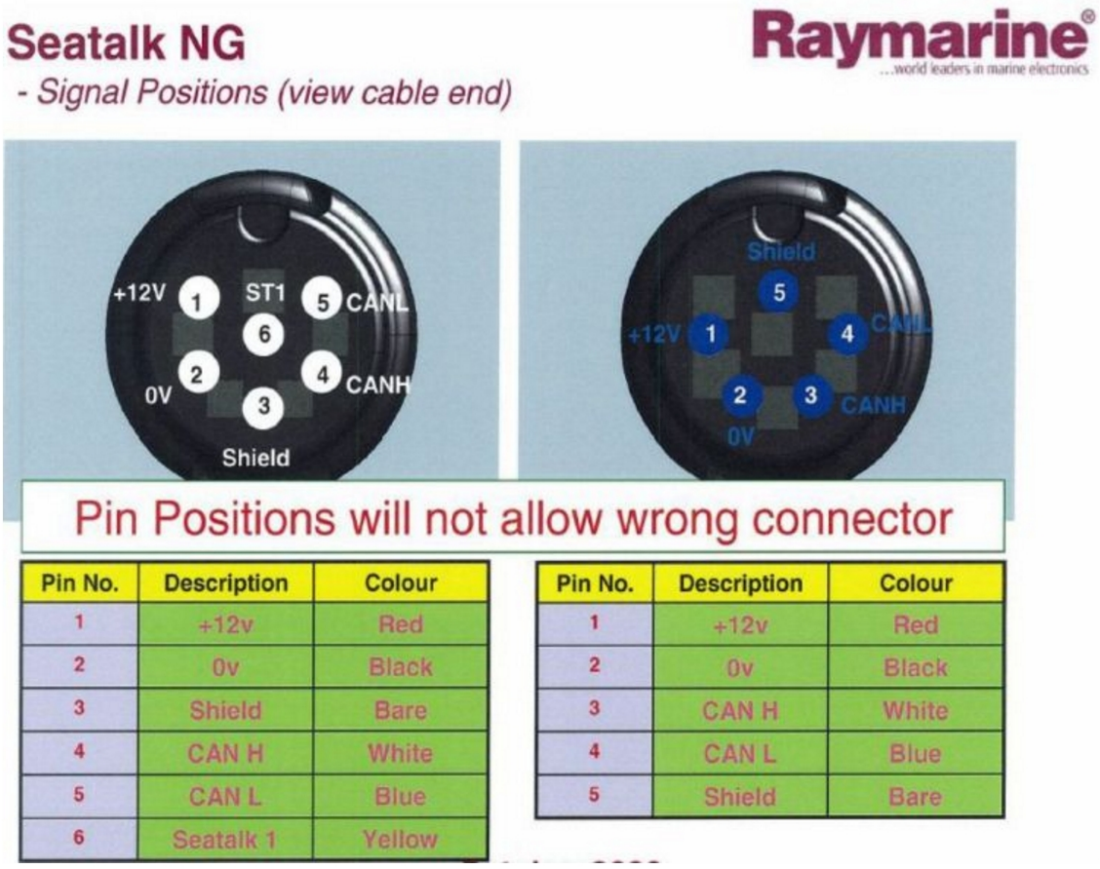
iTC5 & Wind Transducer Testing

1. Test Wind Issue
    1. 

2. Test iTC-5 Complete.
    1. - Red to shield of the iTC-5 or wind instrument should read 8V DC steady. This is the masthead power supply, coming from the ST50/ST60/i60 Wind instrument or iTC-5. If I understand your initial post, this is the value which you measured 8.4VDC and this would then be considered normal. While the iTC-5 will receive 12VDC from the backbone, only 8.4VDC will be provided across its red to shield pins... 8.45V
    2. - Blue to Shield should read anywhere between 2V and 5.8V DC … 7.6v Disconnected from iTC-5 is 8.0v
    3. - Green to Shield should read anywhere between 2V and 5.8V DC ... 5.9v

4. Blue and green are a sine-cosine wind angle pair. The wind angle is what instruments use to detect the presence of the transducer, so if you have an incorrect voltage here you will often see no wind data at all.
5. - Yellow to shield should read between 0V and 5V DC (the exact voltage depends on the instrument: 3.2V is typical for ITC5, more like 5V on ST60.) ... 3.0V
6. Should you have unplugged the Backbone Cable from the iTC-5 and measured the power from the Backbone Cable's power pins and found that the measured voltage is less than that of the circuity which is feeding power to the backbone (recommend testing at the backbone's Power Cable), then one or more of the devices which have been connected to the backbone is faulty and is loading down the backbone. The problematic device would be identify by disconnecting device one by one and then measuring the power present within the Backbone Cable.
7. 

3.