

## FINAL INSTRUCTIONS

Before setting the line at work check that:

- 1) The bolts are correctly tightened;
- 2) The line is assembled keeping every 4 m a maximal deviation of 3 cm from the axis (both vertically and horizontally);
- 3) Make the isolation test under 2200 V at least and not exceeding 3000 V. The resistance of each circuit towards earth has to be higher than 1000  $\Omega$ /V.

## MAINTENANCE AND SPARE PARTS FOR GDA - GDR SYSTEMS

### MAINTENANCE

1. Make visual inspection of the line every year:
  - a) External appearance  
Check the external appearance of the elements to find: signs of shocks, in this case it is necessary to check the degree of protection to avoid any risk of insulation faults, anomalies (e.g. incorrect implementation of the elements, incorrect supports, etc.), traces of corrosion (in particular on hangers).
  - b) Cleaning  
It is advised to check annually that line is clean and to remove any dust, water, oil or other conducting substances or objects from sensitive zones such as junctions, tap-off points and tap-off boxes.
2. Check with a thermal scan that the joints are correct. There is not a temperature to respect, you have to check the joints compared to the others: e.g. if the joints are all 50°C and one is 70°C, you have to check the 70°C joint if the bolts are well closed and;
3. Tightening check of screws on a sample of 10% of total joints each 18 months.

### SPARE PARTS

The system correctly assembled and in its normal conditions of use doesn't need spare parts for at least 3 years of mounting. Please use only original spare parts in order to not compromise the busbar function.

### WATER EXPOSURE

If a GRAZIADIO line is exposed to water during installation or operation, it is necessary to measure the insulation resistance of the line by isolating the supply and the loads.

If  $R < 1 \text{ MOhm}$ ;, the installation must not be energized:

1. cut the line in two by removing the jointing unit in the middle,
2. locate the faulty zone,
3. remove all jointing covers and dry the parts using compressed air,
4. continue until the insulation resistance is more than 1 MOhm;
5. the system can then be energized.

The Graziadio & C. Spa reserves the right to make unannounced changes or improvements to its products under the constant process of development and regulatory compliance. The indications, measurements, drawings and photos of the products of the components are shown for information and have no binding character being possible for them to change without notice.

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