

# Transposition Option

This option is available in the “Options” tab of the “Line Data” device.

This option produces a line model for transposed lines based on the averaging of the series impedance and shunt admittance matrices. This procedure is only an approximation to the correct solution of modelling each transposition segment explicitly and then specifying the appropriate node connections in EMTPWorks. Averaging is valid only when the length of the transposition sections is several times smaller than the wavelength of the propagating signals.

The sum of the lengths of all the transposition sections must equal the total length of the line as specified in the “Line length” tab. This provides a check on the correct specification of the transposition sections. There is no check, however, on the specification of the phase sequence.