$a := -2.25\cdot 10^{-4}$

$b := -6.08\cdot 10^{-9}$

The idea is to provide a scaling factor, γ, that allows one to define a range of compliance for a cable that might be of different length or guage. K1 defines the offset at 100MHz and is proportional to γ.

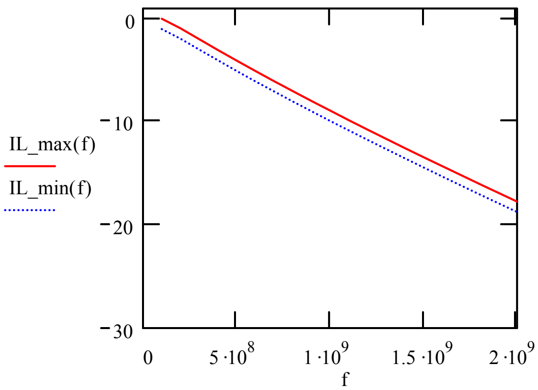
$c := -2.08 \times 10^{4}$ $\quad e := .5 \quad f := 10^{8}, 2\cdot 10^{8} .. 2\cdot 10^{9} \quad f\_min := 10^{8} \quad f\_n := \frac{3.125\cdot 10^{9}}{2}$

$\gamma := 1$

$$K1 := \left[\left[\left(a\cdot\sqrt{f\_min}\right) + (b\cdot f\_min) + \left(\frac{c}{\sqrt{f\_min}}\right)\right]\cdot\gamma\right] + e \qquad K1 = -4.438$$

$$IL\_max(f) := \left[\left[\left(a\cdot\sqrt{f}\right) + (b\cdot f) + \left(\frac{c}{\sqrt{f}}\right)\right]\cdot\gamma\right] - K1 + e$$

$$IL\_min(f) := \left[\left[\left(a\cdot\sqrt{f}\right) + (b\cdot f) + \left(\frac{c}{\sqrt{f}}\right)\right]\cdot\gamma\right] - K1 - e \qquad IL\_min(f\_n) = -14.982$$



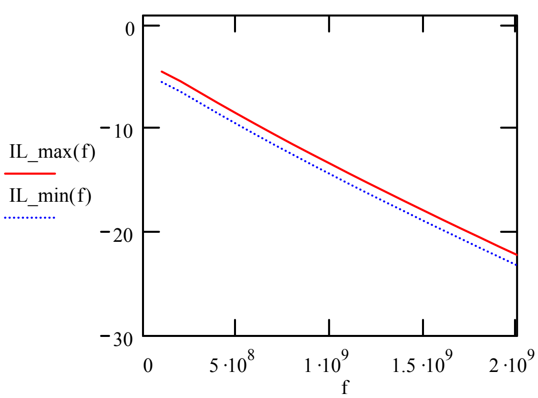
$IL\_max(f\_min) = 0$

$IL\_min(f\_min) = -1$

$K1 := 0$

$$IL\_max(f) := \left[\left(a\cdot\sqrt{f}\right) + (b\cdot f) + \left(\frac{c}{\sqrt{f}}\right) - K1\right]\cdot\gamma + e$$

$$IL\_min(f) := \left[\left(a\cdot\sqrt{f}\right) + (b\cdot f) + \left(\frac{c}{\sqrt{f}}\right) - K1\right]\cdot\gamma - e \qquad IL\_min(f\_n) = -19.42$$



$IL\_max(f\_min) = -4.438$

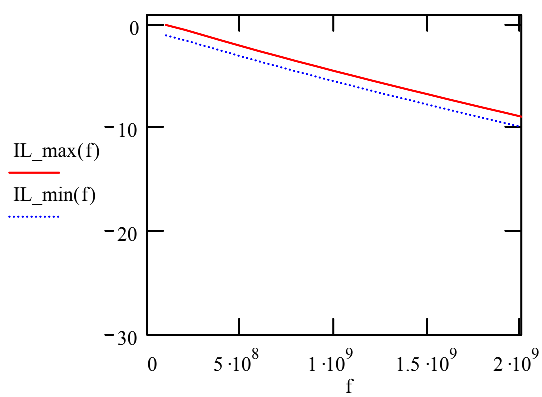
$IL\_min(f\_min) = -5.438$

$\gamma := .5$

$$K1 := \left[\left[\left(a\cdot\sqrt{f\_min}\right) + (b\cdot f\_min) + \left(\frac{c}{\sqrt{f\_min}}\right)\right]\cdot\gamma\right] + e \qquad K1 = -1.969$$

$$IL\_max(f) := \left[\left[\left(a\cdot\sqrt{f}\right) + (b\cdot f) + \left(\frac{c}{\sqrt{f}}\right)\right]\cdot\gamma\right] - K1 + e$$

$$IL\_min(f) := \left[\left[\left(a\cdot\sqrt{f}\right) + (b\cdot f) + \left(\frac{c}{\sqrt{f}}\right)\right]\cdot\gamma\right] - K1 - e \qquad IL\_min(f\_n) = -7.991$$



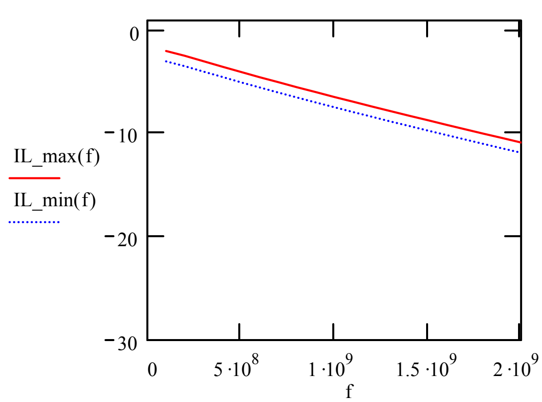
$IL\_max(f\_min) = 0$

$IL\_min(f\_min) = -1$

$K1 := 0$

$$IL\_max(f) := \left[\left[\left(a\cdot\sqrt{f}\right) + (b\cdot f) + \left(\frac{c}{\sqrt{f}}\right)\right]\cdot\gamma\right] - K1 + e$$

$$IL\_min(f) := \left[\left[\left(a\cdot\sqrt{f}\right) + (b\cdot f) + \left(\frac{c}{\sqrt{f}}\right)\right]\cdot\gamma\right] - K1 - e \qquad IL\_min(f\_n) = -9.96$$



$IL\_min(f\_min) = -2.969$

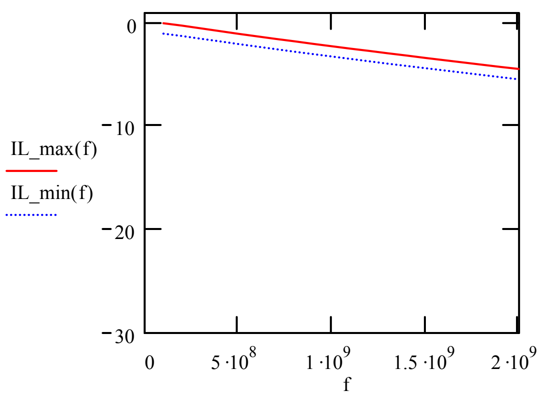
$IL\_max(f\_min) = -1.969$

$\gamma := .25$

$$K1 := \left[\left[\left(a\cdot\sqrt{f\_min}\right) + (b\cdot f\_min) + \left(\frac{c}{\sqrt{f\_min}}\right)\right]\cdot\gamma\right] + e \qquad K1 = -0.735$$

$$IL\_max(f) := \left[\left[\left(a\cdot\sqrt{f}\right) + (b\cdot f) + \left(\frac{c}{\sqrt{f}}\right)\right]\cdot\gamma\right] - K1 + e$$

$$IL\_min(f) := \left[\left[\left(a\cdot\sqrt{f}\right) + (b\cdot f) + \left(\frac{c}{\sqrt{f}}\right)\right]\cdot\gamma\right] - K1 - e \qquad IL\_min(f\_n) = -4.496$$



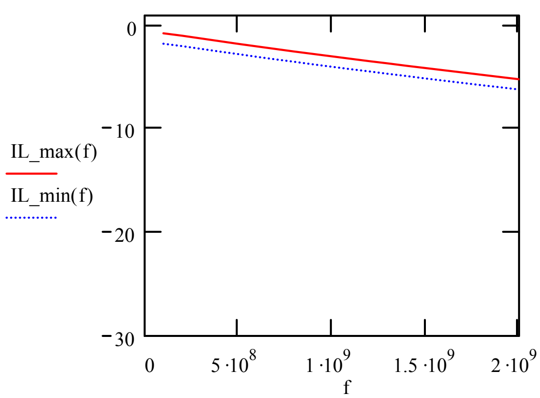
$IL\_max(f\_min) = 0$

$IL\_min(f\_min) = -1$

$K1 := 0$

$$IL\_max(f) := \left[\left[\left(a\cdot\sqrt{f}\right) + (b\cdot f) + \left(\frac{c}{\sqrt{f}}\right)\right]\cdot\gamma\right] - K1 + e$$

$$IL\_min(f) := \left[\left[\left(a\cdot\sqrt{f}\right) + (b\cdot f) + \left(\frac{c}{\sqrt{f}}\right)\right]\cdot\gamma\right] - K1 - e \qquad IL\_min(f\_n) = -5.23$$



$IL\_min(f\_min) = -1.735$

$IL\_max(f\_min) = -0.735$