

Noise level (Corona noise) in 2.2 KHz bandwidth = -13.5 dB

Correction considering Psophometric factor = -2.0 dB

Noise level in speech band (300 – 2400 Hz) = -15.5 dB

Equipment noise above external = -60 dBm is very low corresponding to noise so not considered in calculation

Signal level (speech) at receiver side on line side = +35 – (Line attenuation + Coupling loss)

= +35 – (18.55 + 6.1) = +35 – 24.65 = 10.35 dB

Signal to noise ratio = (Signal level (speech) at receiver side on line side – Noise level in speech band)

= +10.35 – (-15.5 dB) = 25.85 dB (considering PLC terminal power output as 20 watts)

= 28.85 dB (considering PLC terminal power output as 40 watts which is recommended for better SNR).

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