



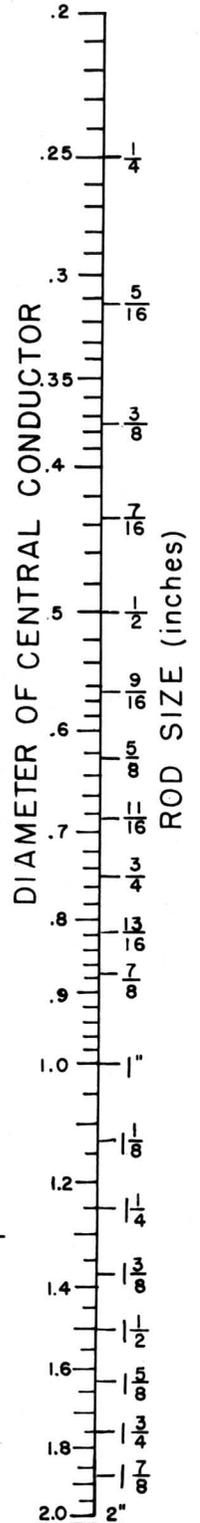
Technical data

CHARACTERISTIC IMPEDANCE OF LINES

CONCENTRIC LINE—AIR SPACED



$$Z_o = 138 \log_{10} \frac{D}{d}$$



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CHARACTERISTIC IMPEDANCE OF LINES
CONCENTRIC LINE—AIR SPACED

This chart gives the theoretically exact characteristic impedance of a coaxial line for any ratio of diameters, assuming perfect conductors and a lossless dielectric (vacuum, air, or a gas). The maximum impedance obtainable on this chart is 150 ohms. A line connecting D to d will cross the Z_0 scale at the surge impedance.