|  |  |  |  |
| --- | --- | --- | --- |
|  | cable length |  |  |
|  | cable diameter |  |  |
|  |  |  |  |
|  | axial resistance |  | For a segment of cable with a fixed length and a fixed diameter |
|  | membrane resistance |  |
|  | membrane capacitance |  |
|  |  |  |  |
|  | cytoplasmic resistivity |  | For unit length of cable with fixed diameter |
|  | membrane resistivity |  |
|  | membrane capacitance |  |
|  |  |  |  |
|  | specific axial resistance |  | For unit length and unit diameter  (i.e., unit volume or surface area of cable) |
|  | specific membrane resistance |  |
|  | specific membrane capacitance |  |
|  |  |  |  |
|  | membrane time constant |  |  |
|  | membrane space constant | m |  |

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