Calculating Rubber Profile Cord Stock Cut Length

In order to calculate the proper cut length of the rubber cord stock extrusion, we need to know the value of the desired inside diameter (ID) and the profile cross-section (CS). For a standard 90° square cut, the calculation is as follows: ID + CS X 3.14159= Nominal Cut Length (NCL)
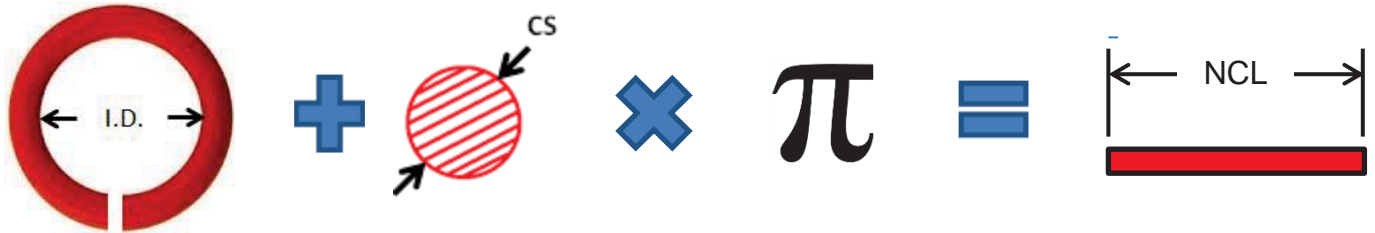
ID   +   CS   X   3.14159 = Nominal Cut Length

For example:

Using .275 (CS) diameter cord stock, the operator would like to make a rubber o-ring that has an 8-inch inside diameter.

The calculation to determine the length of cord stock needed to make this part is as follows:

8.000(ID) + .275 (CS)= 8.275

8.275 x 3.14159= 25.996 inches

The cord stock needs to be cut to a length of 25.9 inches to make this part