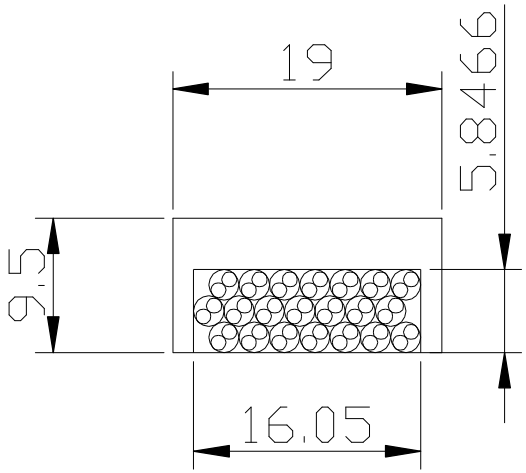
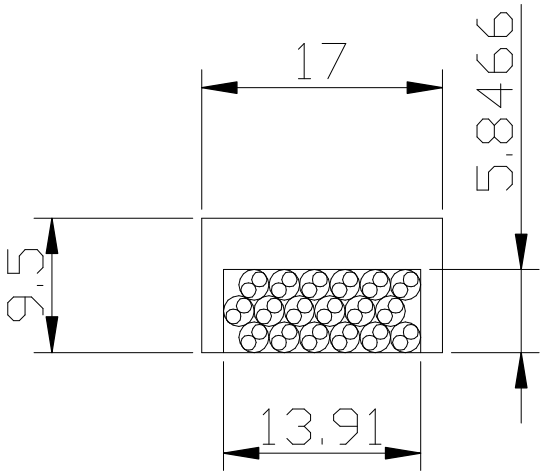
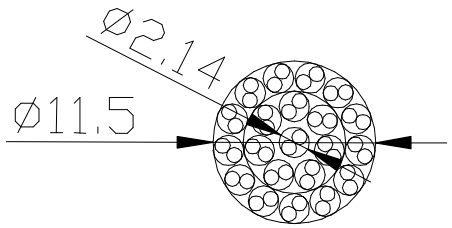
Packing Factor 2



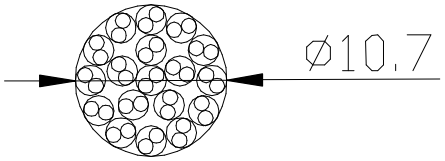


PF=2 ==>9.5 X 19 = 180.5
PF~0 ==>5.85 X 16.1 = 94.2

NASA Standard
Wire harness Ø



42 Wires
21 Twisted Pair
7 Module Bundle



36 Wires
18 Twisted Pair
6 Module Bundle

Pi*D^2 /4 = 3.14*(11.5)^2/4 = 103.9

11.5 = [(4/3.14) * (21) * (2.14)^2 * (1.08)]^(1/2)

NASA HarnessØ = √[(4/π)*(number of wires)*(wire dia)^2*(weighting factor)]

Weighting Factor ~ 1.08 on top of circle to square conversion