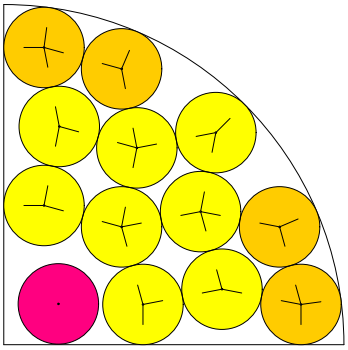
N = 13

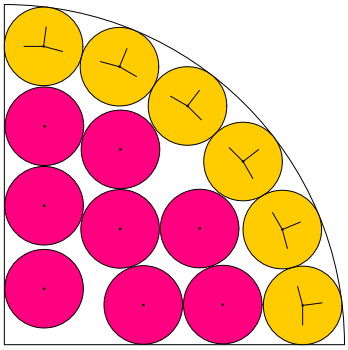
13 circles in a circular quadrant



radius = 0.118280294043 density = 0.727491853865
ratio = 8.454493693050 contacts = 25

N = 14

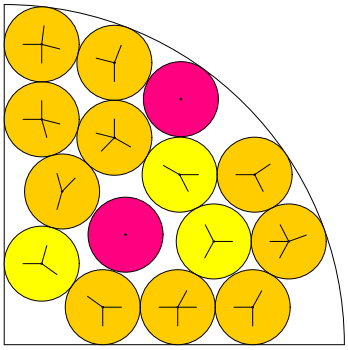
14 circles in a circular quadrant



radius = 0.115456141678 density = 0.746486756470
ratio = 8.661297575540 contacts = 13

N = 15

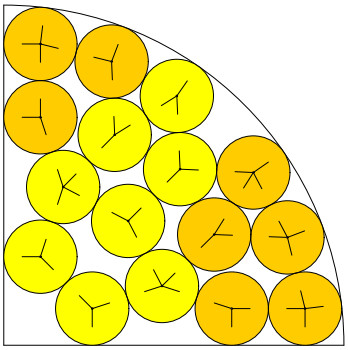
15 circles in a circular quadrant



radius = 0.110212024388 density = 0.728801419182
ratio = 9.073420124104 contacts = 27

N = 16

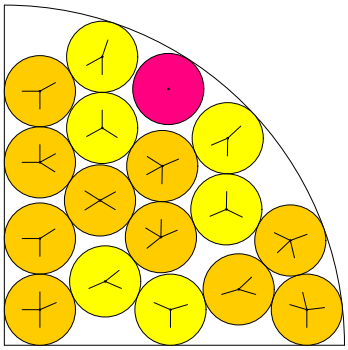
16 circles in a circular quadrant



radius = 0.107771974554 density = 0.743347103958
ratio = 9.278850129032 contacts = 33

N = 17

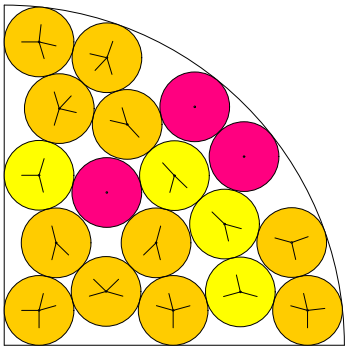
17 circles in a circular quadrant



radius = 0.104571563126 density = 0.743594403392
ratio = 9.562829225347 contacts = 33

N = 18

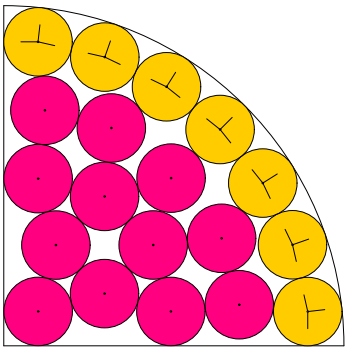
18 circles in a circular quadrant



radius = 0.102431610396 density = 0.755440906199
ratio = 9.762611328025 contacts = 31

N = 19

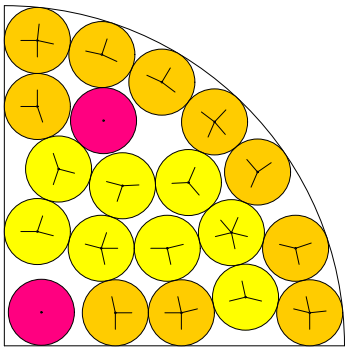
19 circles in a circular quadrant



radius = 0.100690695170 density = 0.770534823132
ratio = 9.931404270381 contacts = 15

N = 20

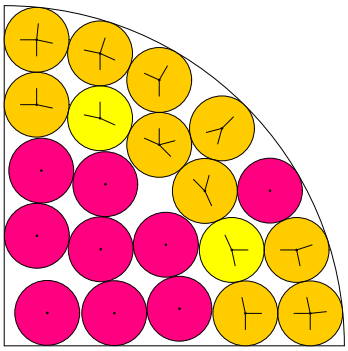
20 circles in a circular quadrant



radius = 0.097064861746 density = 0.753726990869
ratio = 10.302389371469 contacts = 37

N = 21

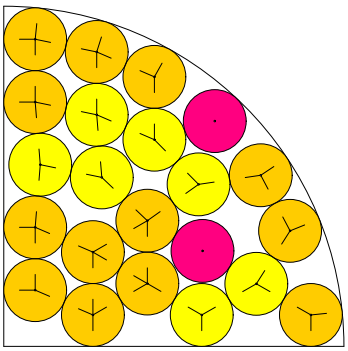
21 circles in a circular quadrant



radius = 0.095341841142 density = 0.763565600476
ratio = 10.488574460309 contacts = 25

N = 22

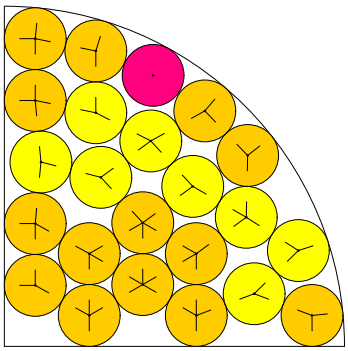
22 circles in a circular quadrant



radius = 0.092357812036 density = 0.750636959072
ratio = 10.827454418416 contacts = 41

N = 23

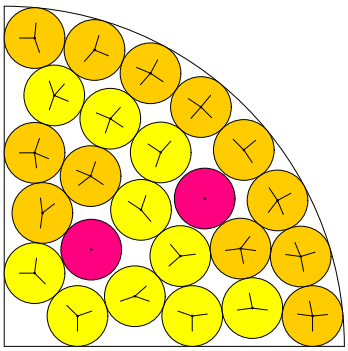
23 circles in a circular quadrant



radius = 0.090855472210 density = 0.759433948404
ratio = 11.006491691442 contacts = 46

N = 24

24 circles in a circular quadrant



radius = 0.089194524043 density = 0.763743659452
ratio = 11.211450598873 contacts = 45