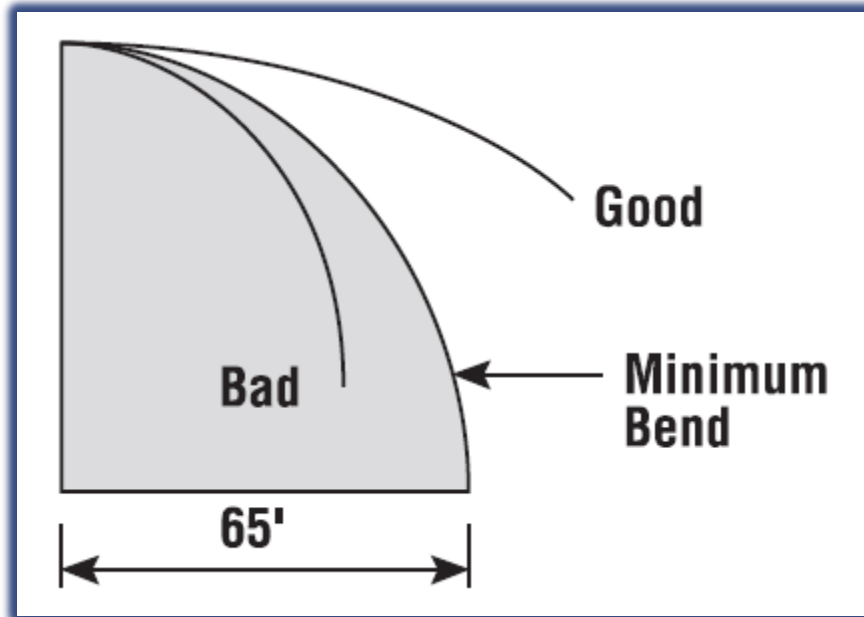# Prime Conduit, Inc.

Bore-Gard® Bend Radius

Turns in a bore path should be made gradually. Bore-Gard & Boreable Multi-Gard have a minimum bend radius of 65'. Bending more than this recommended limit will stress the joint. The drawing illustrates a 65' bend radius. To obtain a 90° turn you will require 65' of forward distance in any directional plane.

Arc Length

The number of feet of conduit (Arc Length) required to make a 65' bend radius at a 90° turn is 102.1'.

Arc Length = (2 * radius) * π * (angle/360)
Arc Length = (2 * 65') * 3.14159 * (90/360)
Arc Length = 102.1' conduit

Many installations require a bend radius larger than 65' and this formula can be used to calculate the approximate length of conduit required at different radii. If the bend radius increases, then the length of conduit required also increases.

Note: Successful directional drilling, reaming and pipe installation are influenced by numerous factors including the reamed diameter, pull rate, fluid chemistry, fluid flow rate, drill rod diameter, soil conditions, equipment performance and condition, and operator experience. All manufacturers' equipment recommendations and training should be followed for successful drilling results.