

# HVDL Distance Guide

- Distances shown are maximum HVDL reach using 3 repeaters
- Outside Plant is mixed gauge, uniform gauge used for comparison purposes
- 832K is the fastest data rate with 3 POTS in FIXED Mode (1,024K in Dynamic Mode)
- Distances calculated with SM-CSHVDL3.1T-B Rev. D Configuration Spreadsheet
- Underground Cable Distances; PIC Cable at a temperature of 70F



## 3 Repeated System

### 26 Gauge Single Link

Data Rate	Max. (FT)
832K	12,000
768K	12,250
640K	12,500
512K	12,750
384K	13,000
256K	13,500
128K	14,000
0K	15,000

### 26 Gauge

Data Rate	Line RT with 3 POTS	Line RT with 1 POTS	Local RT with 1 POTS
832K	23,600	28,000	48,000
768K			
640K			
512K	23,600	28,000	51,000
384K			
256K			
128K	23,600	28,000	56,000
0K			

### 24 Gauge Single Link

Data Rate	Max. (FT)
832K	16,250
768K	16,500
640K	16,750
512K	17,000
384K	17,500
256K	18,000
128K	19,000
0K	21,000

### 24 Gauge

Data Rate	Line RT with 3 POTS	Line RT with 1 POTS	Local RT with 1 POTS
832K	35,200	44,500	65,000
768K			
640K			
512K	35,200	44,500	68,000
384K			
256K			
128K	35,200	44,500	76,000
0K			

### 22 Gauge Single Link

Data Rate	Max. (FT)
832K	22,000
768K	23,000
640K	24,000
512K	25,000
384K	26,000
256K	27,000
128K	28,000
0K	29,000

### 22 Gauge

Data Rate	Line RT with 3 POTS	Line RT with 1 POTS	Local RT with 1 POTS
832K	56,000	66,000	88,000
768K			
640K			
512K	56,000	71,000	100,000
384K			
256K			
128K	56,000	71,000	112,000
0K			

### 19 Gauge Single Link

Data Rate	Max. (FT)
832K	35,000
768K	36,000
640K	37,000
512K	38,000
384K	39,000
256K	40,000
128K	42,000
0K	45,000

### 19 Gauge

Data Rate	Line RT with 3 POTS	Line RT with 1 POTS	Local RT with 1 POTS
832K	105,000	131,000	140,000
768K			
640K			
512K	113,000	131,000	152,000
384K			
256K			
128K	113,000	131,000	168,000
0K			