



Phase Conductor Bundle	Phase Spacing (Feet)	Structure Height (Feet)	Structure Width (Feet)
1-795 kCM ACSR Drake	10.5/10.5/13.5	85	53

\*based on 900' span lengths



# 138-kV Specifications

Design	BOLD Designs
Phase Conductor Bundle	1-795 kCM ACSR Drake
<b>EACH CIRCUIT</b>	
Surge Impedance ( $\Omega$ )	335
SIL (MW)	57
<b>BOTH CIRCUITS COMBINED</b>	
Resistive Loss <sup>(3)</sup> (MW/100 Miles)	24
Corona Loss <sup>(4)</sup> (MW/100 Miles)	0.05
Audible Noise @ROW Edge (dBA) <sup>(6)(7)</sup>	12
Electric Field @ROW Edge (kV/m) <sup>(5)(6)</sup>	0.26
Magnetic Field @ROW Edge (mG) <sup>(5)(6)</sup>	38

**NOTES**

- (1) All options currently represent best available data for phase spacing and bundle diameters. Project-specific requirements may vary.
- (2) All options consider 2 x 0.646" dia. OPGW as the shield wires.
- (3) 138-kV BOLD line loss based on 200 MVA loading in each of two-circuits.
- (4) Yearly average corona loss (rain 20%, snow 2%, fair 78% of time).

- (5) Results are shown for "superbundle" phase arrangement (1-2-3; 1-2-3, top-to-bottom); other arrangements are possible.
- (6) 138-kV Right-of-way (ROW) width is 100 feet.
- (7) Mean value of audible noise in rain at sea level.

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