



Phase Conductor Bundle	Phase Spacing (Feet)	Structure Height (Feet)	Structure Width (Feet)
1-1590 kCM ACSR Falcon	11/11/14.2	96	56
2-795 kCM ACSR Drake	11/11/14.2	96	56
3-556.5 kCM ACSR Dove	11/11/14.2	96	56

*based on 900' span lengths



230-kV Specifications

Design	BOLD Designs		
Phase Conductor Bundle	1-1590 kCM ACSR Falcon	2-795 kCM ACSR Drake	3-556 kCM ACSR Dove
EACH CIRCUIT			
Surge Impedance (Ω)	320	224	196
SIL (MW)	165	236	270
BOTH CIRCUITS COMBINED			
Resistive Loss ⁽³⁾ (MW/100 Miles)	59	56	53
Corona Loss ⁽⁴⁾ (MW/100 Miles)	0.71	0.35	0.14
Audible Noise @ROW Edge (dBA) ⁽⁶⁾⁽⁷⁾	40	34	27
Electric Field @ROW Edge (kV/m) ⁽⁵⁾⁽⁶⁾	0.3	0.44	0.51
Magnetic Field @ROW Edge (mG) ⁽⁵⁾⁽⁶⁾	39	39	39

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) 230-kV BOLD line loss based on 500 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) 230-kV Right-of-way (ROW) width is 130 feet.
- (7) Mean value of audible noise in rain at sea level.

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