



Phase Conductor Bundle	Phase Spacing (Feet)	Structure Height (Feet)	Structure Width (Feet)
2-1590 kCM ACSR Falcon	18/18/23.2	102	78
3-954 kCM ACSR Cardinal	15/15/19.3	98	73.3
4-795 kCM ACSR Drake	14/14/18	97	72

*based on 900' span lengths



345-kV Specifications

Phase Conductor Bundle	2-1590 kCM ACSR Falcon	3-954 kCM ACSR Cardinal	4-795 kCM ACSR Drake
EACH CIRCUIT:			
Surge Impedance (Ω)	241	198	176
SIL (MW)	494	601	678
BOTH CIRCUITS COMBINED:			
Resistive Loss ⁽³⁾ (MW/100 Miles)	52	56	50
Corona Loss ⁽⁴⁾ (MW/100 Miles)	1.0	1.1	0.8
Audible Noise @ROW Edge (dBA) ⁽⁶⁾⁽⁷⁾	43	41	41
Electric Field @ROW Edge (kV/m) ⁽⁵⁾⁽⁶⁾	0.8	0.8	0.9
Magnetic Field @ROW Edge (mG) ⁽⁵⁾⁽⁶⁾	64	55	51

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) 345-kV BOLD line loss based on 1000 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) 345-kV Right-of-way (ROW) width is 150 feet.
- (7) Mean value of audible noise in rain at sea level.

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