



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 ( $\Omega$ )	<b>241</b>	<b>198</b>	<b>176</b>
SIL (MW)	<b>494</b>	<b>601</b>	<b>678</b>
BOTH CIRCUITS COMBINED:			
Resistive Loss <sup>(3)</sup> (MW/100 Miles)	<b>52</b>	<b>56</b>	<b>50</b>
Corona Loss <sup>(4)</sup> (MW/100 Miles)	<b>1.0</b>	<b>1.1</b>	<b>0.8</b>
Audible Noise @ROW Edge (dBA) <sup>(6)(7)</sup>	<b>43</b>	<b>41</b>	<b>41</b>
Electric Field @ROW Edge (kV/m) <sup>(5)(6)</sup>	<b>0.8</b>	<b>0.8</b>	<b>0.9</b>
Magnetic Field @ROW Edge (mG) <sup>(5)(6)</sup>	<b>64</b>	<b>55</b>	<b>51</b>

**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.

*Efficiency never looked so good™*

BOLDTransmission.com