

ACCC® Plus Conductor

ACCC® Plus Conductor is an Advanced Conductor solution within the ACCC® Conductor product line, delivering higher core strength, improved sag performance, and greater span capability than conventional conductors for demanding transmission line applications.



Technical Benefits: Compared to Steel Core Conductors



40% More Aluminum
Enables line loss reduction by 40% or more.

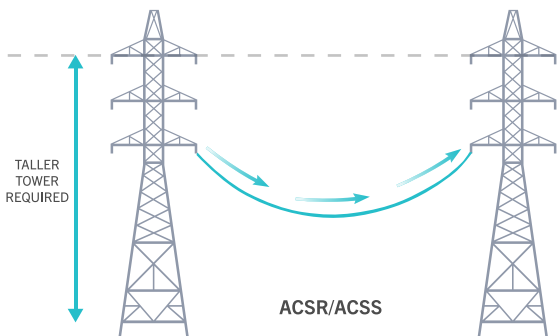


10X Lower Thermal Expansion
Helps maintain clearances at operating temperatures.



70% Higher Strength
Supports more demanding line designs.

How ACCC® Plus Conductor Creates Project Value



Enhanced Mechanical Performance

Higher tensile strength supports more demanding transmission line designs while improving sag performance and span capability.

Project Value

Enables longer spans, improved clearances, and greater flexibility to address challenging mechanical design requirements.

Improved Efficiency

Enhanced mechanical performance can support designs with increased aluminum content, helping reduce electrical resistance and line losses.

Project Value

Helps utilities deliver more power efficiently while reducing transmission losses and maximizing asset value.

Greater Design Flexibility

Provides engineers with greater flexibility to optimize structure spacing, conductor selection, clearances, and overall line design.

Project Value

Creates more opportunities to optimize projects around route, loading, and construction constraints.

Reduced Project Costs

Longer spans and optimized structure spacing can help reduce infrastructure requirements while maximizing the value of transmission investments.

Project Value

Helps lower overall project costs through more efficient transmission line designs.

Selecting the Right ACCC® Conductor Option

See how ACCC® Plus Conductor fits within the ACCC® Conductor family.

Whether you are increasing capacity, managing clearances, extending spans, or optimizing structures and rights-of-way, ACCC® Plus Conductor gives your engineering team added mechanical capability without giving up the proven efficiency and operating advantages of the ACCC® Conductor platform.

Category	ACCC® Conductor	ACCC® Plus Conductor	ACCC® ULS Conductor
Best Applications	Reconductoring, rebuilds, and new transmission lines	New lines, optimized designs, challenging span and clearance requirements	Extreme spans, heavy loading, severe clearance constraints, ice/wind loading
When to Utilize	Most transmission capacity upgrades	When additional strength, lower sag, or greater design flexibility is needed	When maximum mechanical and low-sag performance is required
Tensile Strength	2,158 MPa	2,450 MPa	2,586 MPa
Modulus	112-118 GPa	130 GPa	146-155 GPa
CTE	$1.6 \times 10^{-6} / ^\circ\text{C}$	$0.75 \times 10^{-6} / ^\circ\text{C}$	$0.75 \times 10^{-6} / ^\circ\text{C}$

ACCC® Plus Conductor Applications



Long Span Crossings

Improved mechanical performance supports longer crossing distances and optimized structure placement.



Clearance-Constrained Corridors

Improved sag performance and lower thermal expansion help support clearance objectives.



Challenging Terrain and Routing Conditions

Provides greater design flexibility when structure locations or span lengths are constrained.

