



Substation Accessories

For Low Voltages up to 765 kV Applications

Bolted | Welded | Swage

Bronze | Aluminum

Grounding | Bus | Cable



Your Total Solution Provider "Inside The Fence" for Substation Accessories!

- NEW! Swage360® Grounding Fittings
- Swage360 Bus Fittings
- Swage360 Conductor Accessories
- Welded Accessories
- Bolted Accessories
- Bus Conductors
- Underground Network Connectors
- Swage360 Tools
- Test Laboratory
- Engineer and Design

AFL offers a complete line of accessories with superior performance and reliability for electric power utilities and rail transit systems. With more than 100 years of design and manufacturing expertise, AFL's substation products improve the performance of critical electrical and optical infrastructure used for the transmission and distribution of electricity.

Made for voltages up to 765 kV applications, AFL's substation accessories include grounding, cable, pipe, flat or tubular bus and integral web connections. Our complete product offering is available for swage, bolted or welded applications in bronze or aluminum materials as well as the tools and compounds required for installation. Complementing the entire substation family, Swage360 grounding, bus and cable accessories allow electric utilities to install accessories faster and more efficiently without the need for a certified welder.



Swage360 Compression Accessories

- Installs faster and more efficiently
- Available for Grounding, Bus and Cable
- Voltages up to 500 kV
- 1" to 6" N.P.S.



Bolted Accessories

- Aluminum and Bronze materials
- Voltages include 230 kV, 345/500 kV and 765 kV
- 1" to 8" N.P.S.



Welded Accessories

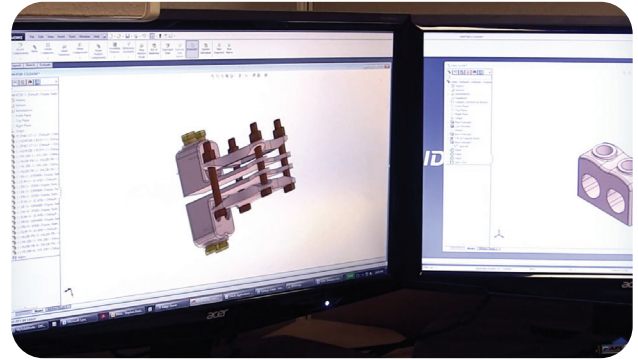
- Requires certified welder
- Aluminum materials
- Voltages include 230 kV, 345/500 kV and 765 kV
- 1" to 8" N.P.S.

AFL's complete line of Swage360 Compression Accessories also includes Tooling including hydraulic pumps, presses, hoses, compounds and grease. Tooling is available for:

- Bus—1" through 6"
- Cable—336.4 MCM AAC/ACSR conductor through 3500 MCM AAC/ACSR conductor
- Grounding—#6 conductor up to 500 MCM conductor

Testing Lab Meets ANSI NEMA CC1 and ANSI C119 Standards for Performance, Installation and Operation

AFL's accessory products are manufactured in Duncan, SC, in our facility that is certified to ISO 14001 and ISO 9001:2015 standards. With 10,000 sq. ft. of open testing space, our substation accessories are designed and tested to meet ANSI NEMA CC1 and C119 standards for performance, installation and operation. The test lab allows AFL engineers to perform testing for strength, vibration, fatigue, heat rise and current cycle.



Vital to new product development is our 3D printer which provides a cost-effective way for Engineering to develop prototypes for fit checks and supply samples of new parts quickly. The 3D printer enables casting tools to be made in days instead of weeks giving AFL an advantage over competitors.

AFL also provides Engineering support for all your substation needs including:

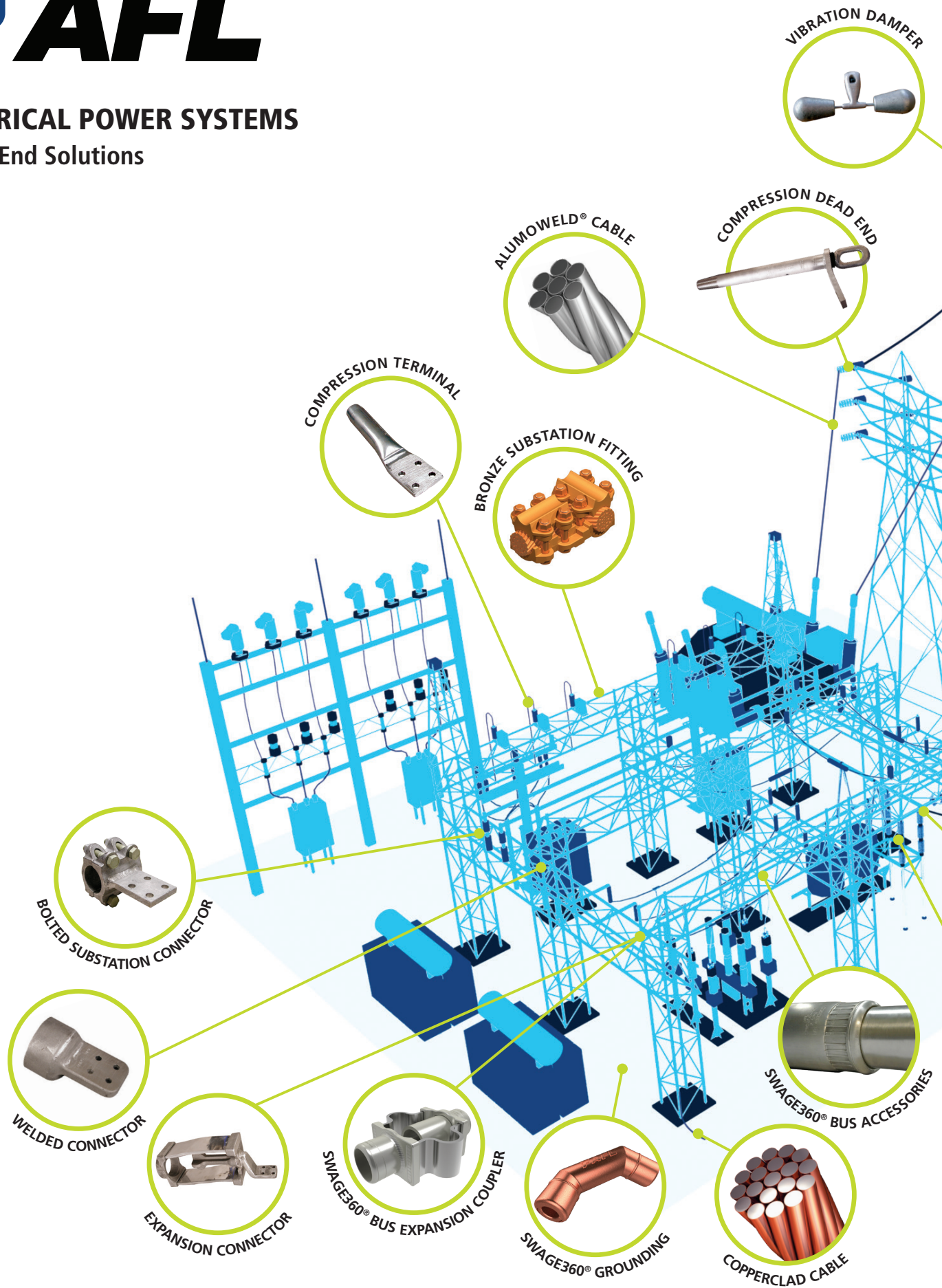
- Direct line to Engineering in the office for any technical inquiries, please call +1 (800) 890-8878
- Custom parts for any voltage, welded, bolted, Swage360® or standard compression
- Ability to 3D print tooling for quick lead times and reduced cost
- Free on-site training regardless of type of power connector used

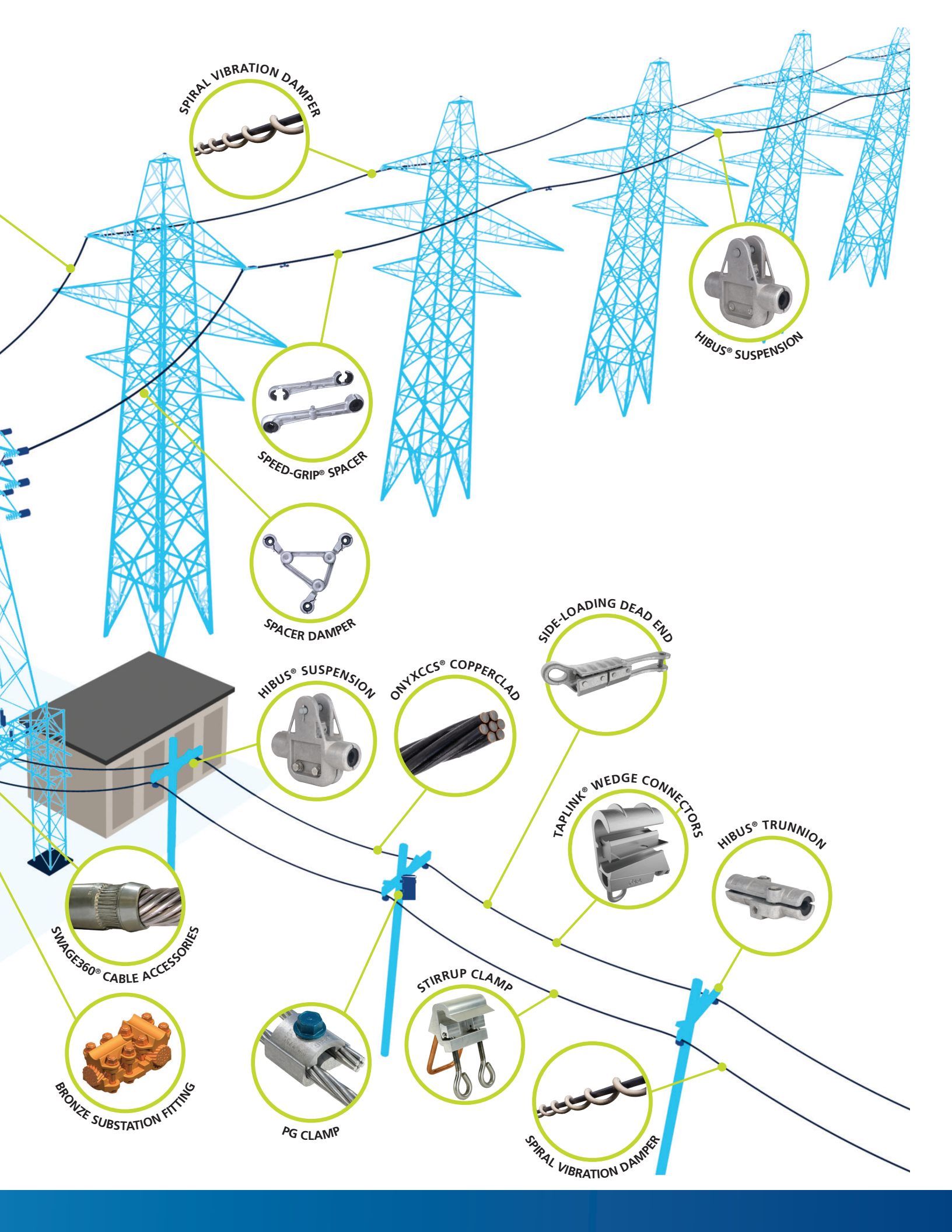




ELECTRICAL POWER SYSTEMS

End-to-End Solutions





SPIRAL VIBRATION DAMPER

HIBUS® SUSPENSION

SPEED-GRIP® SPACER

SPACER DAMPER

HIBUS® SUSPENSION

ONYXCCS® COPPERCLAD

SIDE-LOADING DEAD END

TAPLINK® WEDGE CONNECTORS

HIBUS® TRUNNION

SWAGE360® CABLE ACCESSORIES

BRONZE SUBSTATION FITTING

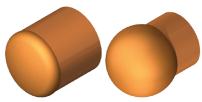
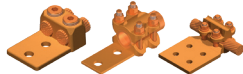
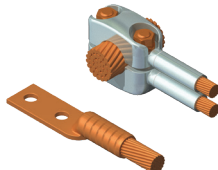
PG CLAMP

STIRRUP CLAMP

SPIRAL VIBRATION DAMPER


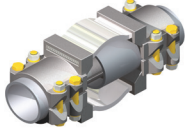


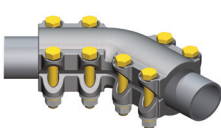

Substation—Bronze 230 kV

	Bus Supports
	Couplers
	Braided or Laminated Expansion
	Elbows, Tee and Vee Connectors
	Parallel, Cross and Bar Taps
	Connectors for Flat Bar
	Grounding Connectors and Everdur Hardware
	Stud Connectors
	Spacers
	Dead End Clamps

	End Caps
	Terminals, Taps
	Compression Connectors

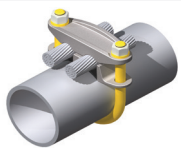
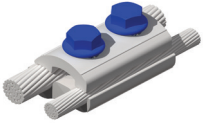
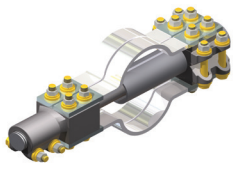
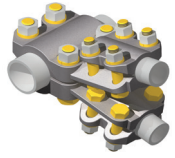
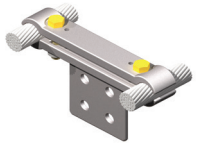
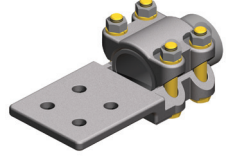

Substation—Aluminum 230 kV

Bolted Accessories

	Bolted Bus Supports
	Bolted Couplers
	Bolted Corona Bells
	Bolted Dead End Clamps
	Bolted Elbows
	Bolted Bar Clamps and Spacers

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Substation—Aluminum 230 kV

Bolted Accessories (cont.)	
	Bolted Ground Clamps
	Bolted Parallel Clamps
	Bolted Stud Connectors
	Tee and Vee Connectors
	Cable Spacers
	Terminal Connectors
	Vibration Dampers

Substation—Aluminum 230 kV

Welded Accessories	
	Bus Supports
	Couplers

Substation—Aluminum 230 kV











Welded Accessories	
	End Bells
	Elbows
	Pipe Taps and Extensions
	Tee and Vee Connectors
	Terminal Connectors
	Compression Connectors

Substation—345/500 kV

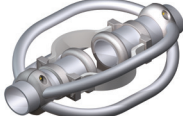






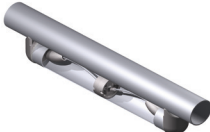

	Bus Supports
	Couplers
	Vibration Dampers
	Corona Bells

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Substation—345/500 kV

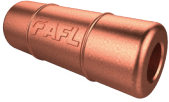
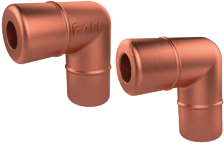
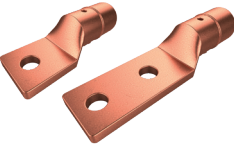
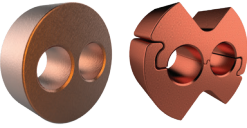
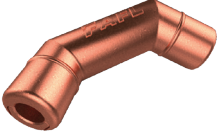
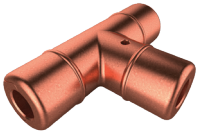
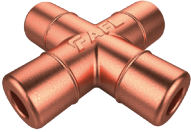
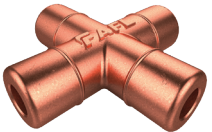
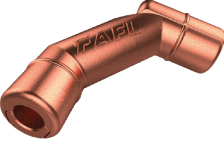

	Tee Connectors
	A-Frame Assemblies
	Terminal Connectors
	Elbows
	Ground Jumpers
	Spacer Clamps
	Hardware Shields
	Parallel Clamps
	Stud Connectors
	Compression

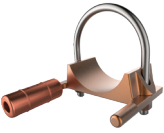

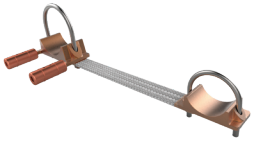
Substation—765 kV

	Bus Supports
	Couplers
	Corona Bells
	Tee Connectors
	Terminal Connectors
	Ground Jumpers
	Spacer Clamps
	Vibration Dampers
	Stud Connectors







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Swage360® Grounding Accessories

	Couplers
	Elbows (standard or split designs)
	Terminals (1 or 2 hole designs)
	Parallel Connectors (standard or split designs)
	Offset Single Split Tee Connectors
	Tee Connectors
	Four-tap Connector Cross
	Cross Connectors with Thru-Hole
	Offset Split Cross Connectors
	Fence Post Connectors with Left and Right Side Connectors

	Fence Post Connectors with Left Side Connector
	Fence Post Connectors with Right Side Connector
	Fence Post and Gate Connectors (connects the cable(s) or rod(s) to a fence post and then to a gate)

Swage360 Bus Accessories



	Bus End Caps
	Bus Couplers
	Bus Cross (standard or split designs)
	Bus Tee or Vee Connectors (standard or split designs)
	Bus Terminals
	Bus Terminal Taps (standard or split designs)

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Swage360® Bus Accessories






	Bus Stirrups & Grounding Studs (standard or split designs)
	Bus Supports
	Bus Expansion Couplers
	Expansion Terminals
	High Voltage Bus Expansion Terminals

Swage360 Cable Accessories


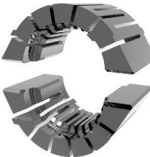

	Cable Terminals
	Cable Couplers
	Cable Supports (standard or split designs)
	Cable Spacers (standard or split designs)
	Cable Tees (standard or split designs)

Swage360 Tools

Bus and Grounding Tools


	115 Ton Press Assembly
	85 Ton Press Assembly
	65 Ton Press Assembly
	65, 85 and 115 Ton Die Sets
	Inspection Gauge

Cable Tools

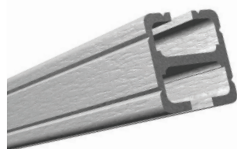

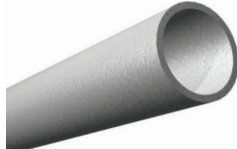
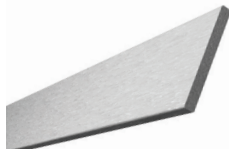
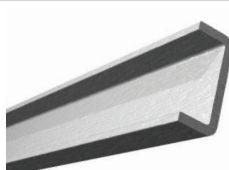
	45 Ton Press Assembly
	45 Ton Die Set
	Cable Inspection Gauge

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Swage360® Accessories

Cable Tools	
	Swage360 Grease
	Pumps Operate the Swage360 115, 85, 65 and 45 Ton Press Assemblies
	Hydraulic Hoses





Bus Conductors

	Integral Web Bus (IWBC)
	Universal Angle Bus (UABC)
	Aluminum Seamless Bus Pipe (most common)
	Rectangular Bar in 6101-T6 Alloy
	Channel

Wire Products

	Copperclad Steel Wire
	OnyxCCS® Copperclad Steel Wire
	Alumoweld® Aluminum Clad Steel

Compounds

	AFL No. 2 Electrical Joint Compound (No. 2 EJC)
	Alnox® Electrical Joint Compound
	AFL Filler Compound
	HiTemp® Universal Compound (HiTUC)

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Substation Accessories

Low Voltages up to 765 kV Applications