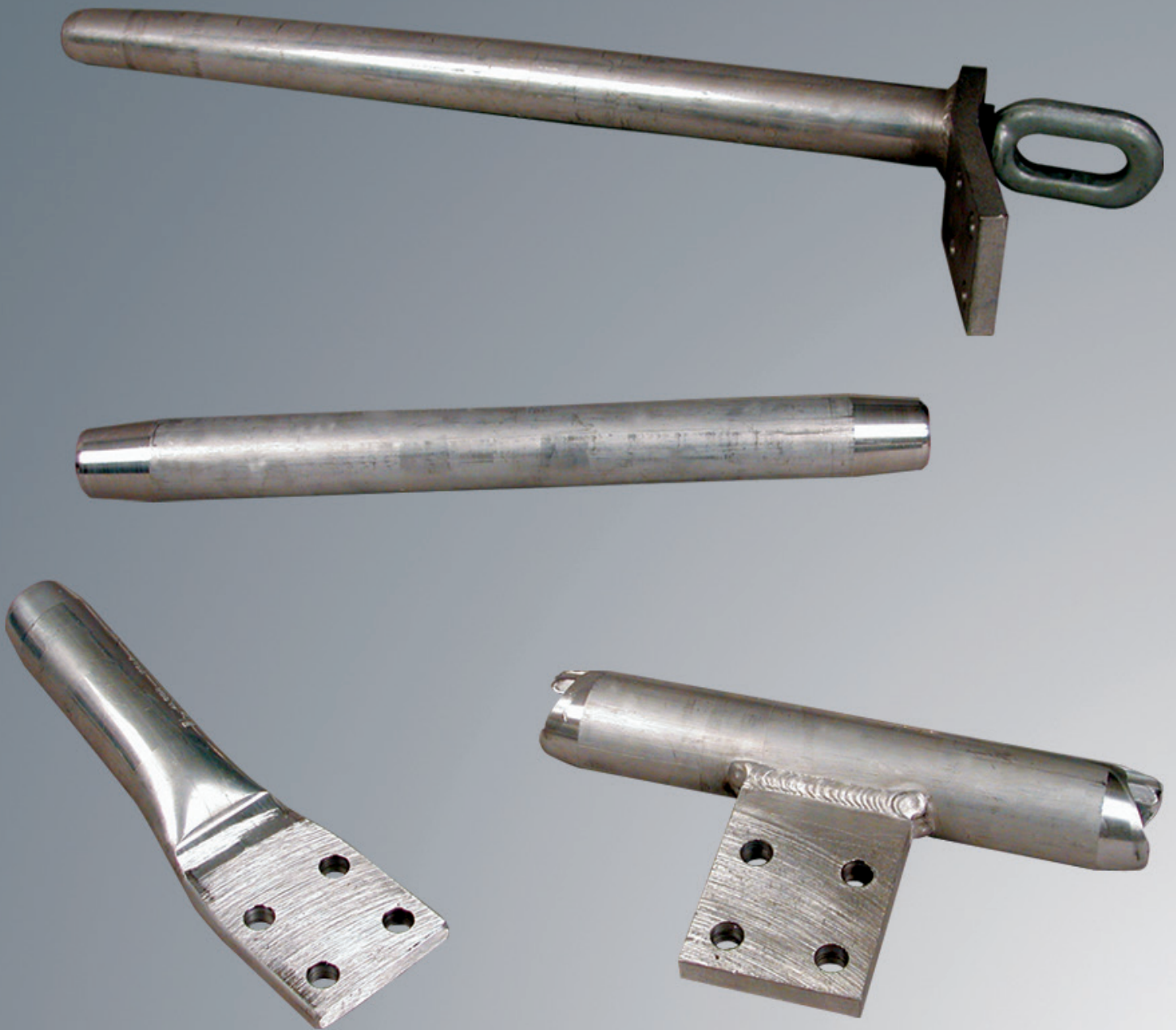




AECC ACCESSORIES FOR TS CONDUCTORS

Founded in 1984, AFL is a global manufacturer providing end-to-end solutions to the broadband, energy, data center, AI and industrial markets.

With products in over 130 countries, AFL specializes in fiber optic cable and hardware, transmission/compression and substation accessories, connectivity solutions, fusion splicers, and test and inspection equipment.

Guided by customer-focused and community-centered values and a strong commitment to safety, the company operates manufacturing facilities worldwide and provides a comprehensive portfolio of services and solutions supporting network infrastructure, data centers, service providers, wireless and power grid modernization.



COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =

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TS Conductors – AECC Accessories

TS Conductor's AECC technology solves the reliability, longevity, and workability concerns of first-generation advanced conductors. Its pre-tensioned carbon fiber core, protected by a thick aluminum encapsulation, creates a conductor that delivers high performance without compromising safety and reliability. The patented design eliminates the need for specialized installation and maintenance, resists physical degradation, and withstands severe weather conditions.

AFL has designed compression accessories for use on AECC conductors including dead ends, splice joints, 15-degree terminals and tee connectors.

Features

- Material
 - Core—Carbon Fiber
 - Strands—Aluminum
- Specialized installation and maintenance not required
- Withstands severe weather conditions

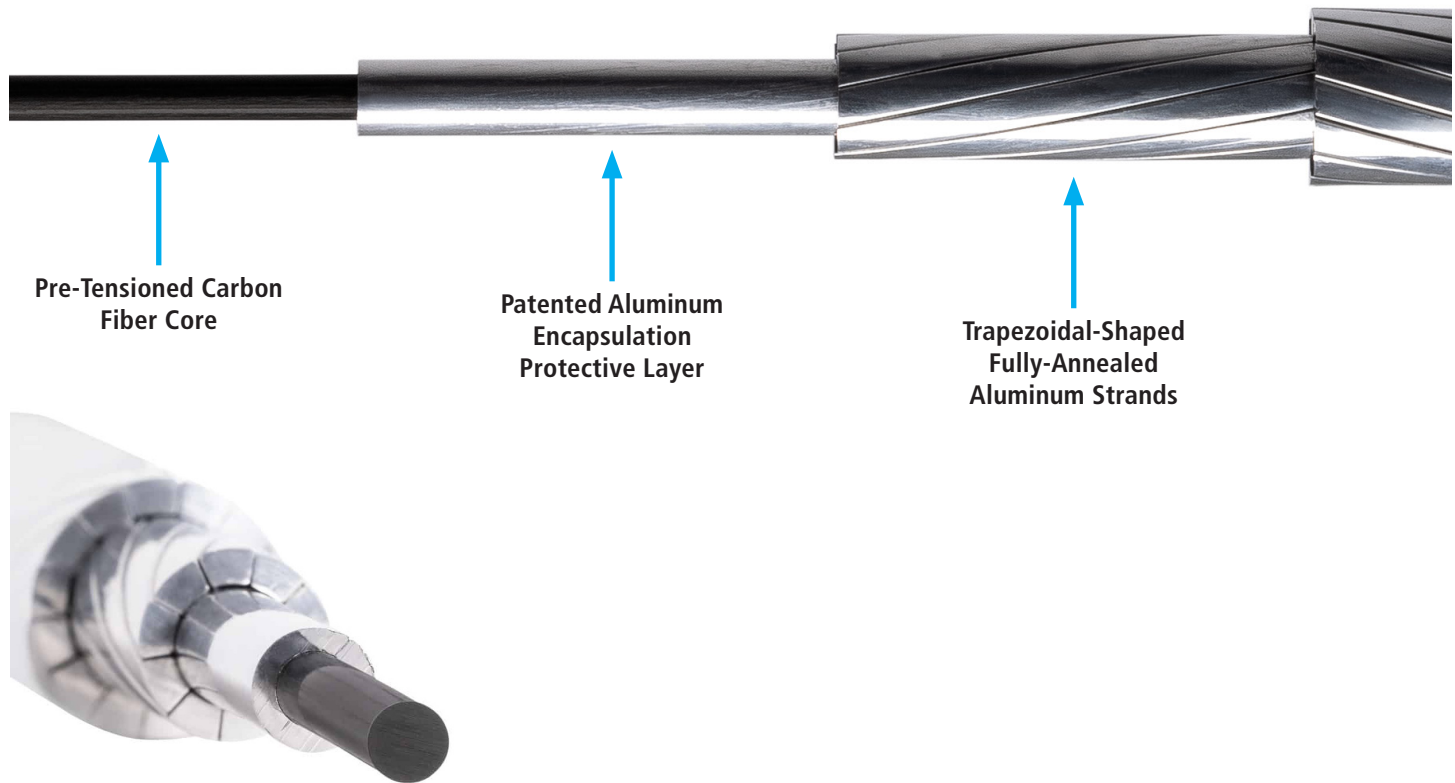
Applications

- For use on AECC conductors



AECC Dead End, Splice Joint, 15-degree Terminal and Tee Connector

TS Conductors AECC Conductor



TS Conductors (AECC) – Catalog Numbering Key

Number Format

BASE – **SIZE CODE** – **SUFFIXES** – **TS [-trailing]***

***Note:** Suffixes sit AFTER the size-code letter; with conductor type TS near the end. For example, B13510-DMEHV-TS.

Base Numbers for Product Type

Base Number	Product Type
B13510	Single Tongue Dead End assembly
B13819	Double Tongue Dead End assembly
B13511	Compression Joint (splice) assembly
B13533	Compression Terminal, 15° (with hardware)
B14271	Compression Terminal, 0° (straight)
41xxxxHT-TS	HiTemp Comealong installation tools (by diameter)

Suffix/Tailing Code (see note above)

Suffix	Description
NT	No terminal included
EHV	Extra High Voltage finish (≥ 345 kV; blank = < 345 kV)
SS	Stainless steel hardware
-CH1	Charpy steel 1 (cold-weather grade) — dead ends only; changes the steel eye/clevis

Size Code for Conductor Type

Conductor	Size Code
Adams	DM
AinAnoub	AU
Algonquin	AQ
Aliolas	AV
Allen	AT
Amulet	LT
Andes	CH
Apo	QA
Arvon	VN
Baalbek	BE
Baden	BD
Baldy	LD
Basin	N
Battleship	BJ
Bear	BB
BearDown	RD
Beartooth	BC
BeaverCreek	BQ
Belukha	BK
Bennett	BT
Bersfort	AB
Bespin	NT
Bierstadt	BS
Bigelow	LC
Blackburn	BN
BlackElk	BV
BlackHawk	WK
BlackStar	TK
BlancaPeak	KP

Conductor	Size Code
Bona	BA
Bonhomme	BH
Boyne	BY
Breckenridge	RG
Bryce	YD
Bull	BU
Burnt	BR
Bush	BG
Camelback	CK
Carlton	CA
Charles	CL
Cloudveil	E
Combin	CM
Conte	CN
Copper	CD
CosoPeak	CP
CrestedButte	CT
Crestone	NC
Crystal	CR
Cub	CB
Cyclone	CY
Darwin	DR
Denali	DN
Dixie	DX
Echo	EC
Ellison	ES
Elmhurst	MH
Elysium	EL
Evans	AE

Conductor	Size Code
Fairweather	FW
Fernow	T
Fishers	X
Flattop	FT
Fletcher	FL
Foraker	FR
Forelien	AX
GannettPeak	GP
Geduhn	GD
GoatRock	GR
Gould	AG
Grant	GT
Grays	AY
GreatBlue	GB
Handies	HF
Harvard	HR
Hood	HD
Hubbard	HB
Hunter	HU
Hyndman	HN
Jackson	Y
Jefferson	AD
Jewel	JW
Juniper	NP
Kennedy	KN
KeyStone	KS
Killdeer	K
Kinnerly	KY

continued
→

TS Conductors (AECC) – Catalog Numbering Key (cont.)

Size Code for Conductor Type (cont.)

Conductor	Size Code
LaPlata	LP
Liberty	LB
Livermore	LV
Loon	BL
Lucania	AL
Mammoth	MM
Marcy	MR
Marshall	AM
Martin	MA
Martin	MT
Massive	MS
McCurdy	MC
McHenry	MY
McKinley	MK
McLoughlin	ML
Meridian	MN
Montalto	MD
Moreno	ME
Nebo	NB
OakBrook	KB
Onyx	NX
Oxford	XF

Conductor	Size Code
Palisade	PU
Palomar	PM
Peak	BP
Pennell	AN
Phelps	PH
Pico	PC
Piestewa	PS
Piveto	PV
PolarBear	PB
Pyramid	PY
Rainier	RR
RedButte	RB
Rincon	RC
Roger	RF
Royal	RY
Royce	YC
Saddle	SD
SaintElias	SE
Sanford	W
SantaAna	SA
Sawtooth	SV
Scafell	AF
Shasta	AA
Siyeh	SY
Skylight	AH

Conductor	Size Code
Sox	SX
Spruce	AR
SUN	AS
Sunlight	SN
Superstition	SW
TaumSauk	TM
TempeButte	TU
Titan	TH
Trident	TD
Turret	TR
Turtle	TG
Tyndall	TN
Vail	VL
Walter	WL
Washington	WS
Whitney	WT
WildPeak	WA
Williamson	Z
Wood	WD
Wright	WR
York	YR
Zenobia	ZN

TS Conductors (AECC) – Compression Accessory Catalog (standard numbers)

Conductor	kcmil	Diameter (in.)	Size Code	Single Dead End (B13510)	Double Dead End (B13819)	Comp. Joint (B13511)	15° Terminal (B13533)	0° Terminal (B14271)	AH Dies	SH Dies
GreatBlue	119.64	0.398	GB	B13510-GB-TS	B13819-GB-TS	B13511-GB-TS	B13533-GB-TS	B14271-GB-TS	TBD	TBD
Royal	213.82	0.512	RY	B13510-RY-TS	B13819-RY-TS	B13511-RY-TS	B13533-RY-TS	B14271-RY-TS	10024AH	—
Wright	258.09	0.563	WR	B13510-WR-TS	B13819-WR-TS	B13511-WR-TS	B13533-WR-TS	B14271-WR-TS	TBD	TBD
Baden	264.70	0.557	BD	B13510-BD-TS	B13819-BD-TS	B13511-BD-TS	B13533-BD-TS	B14271-BD-TS	TBD	TBD
Bonhomme	360.37	0.673	BH	B13510-BH-TS	B13819-BH-TS	B13511-BH-TS	B13533-BH-TS	B14271-BH-TS	TBD	TBD
Palomar	369.09	0.673	PM	B13510-PM-TS	B13819-PM-TS	B13511-PM-TS	B13533-PM-TS	B14271-PM-TS	TBD	TBD
SantaAna	377.14	0.673	SA	B13510-SA-TS	B13819-SA-TS	B13511-SA-TS	B13533-SA-TS	B14271-SA-TS	TBD	TBD
Burnt	382.51	0.666	BR	B13510-BR-TS	B13819-BR-TS	B13511-BR-TS	B13533-BR-TS	B14271-BR-TS	10024AH	10014SH
GoatRock	384.53	0.673	GR	B13510-GR-TS	B13819-GR-TS	B13511-GR-TS	B13533-GR-TS	B14271-GR-TS	TBD	TBD
Hubbard	421.26	0.720	HB	B13510-HB-TS	B13819-HB-TS	B13511-HB-TS	B13533-HB-TS	B14271-HB-TS	TBD	TBD
McLoughlin	429.98	0.720	ML	B13510-ML-TS	B13819-ML-TS	B13511-ML-TS	B13533-ML-TS	B14271-ML-TS	TBD	TBD
Bush	430.34	0.741	BG	B13510-BG-TS	B13819-BG-TS	B13511-BG-TS	B13533-BG-TS	B14271-BG-TS	TBD	TBD
Forelien	438.03	0.720	AX	B13510-AX-TS	B13819-AX-TS	B13511-AX-TS	B13533-AX-TS	B14271-AX-TS	10024AH	10012SH
Crystal	440.40	0.741	CR	B13510-CR-TS	B13819-CR-TS	B13511-CR-TS	B13533-CR-TS	B14271-CR-TS	TBD	TBD
Phelps	449.79	0.741	PH	B13510-PH-TS	B13819-PH-TS	B13511-PH-TS	B13533-PH-TS	B14271-PH-TS	10030AH	10014SH
Marcy	458.51	0.741	MR	B13510-MR-TS	B13819-MR-TS	B13511-MR-TS	B13533-MR-TS	B14271-MR-TS	10030AH	10014SH
Allen	499.92	0.783	AT	B13510-AT-TS	B13819-AT-TS	B13511-AT-TS	B13533-AT-TS	B14271-AT-TS	TBD	TBD
Flattop	509.32	0.783	FT	B13510-FT-TS	B13819-FT-TS	B13511-FT-TS	B13533-FT-TS	B14271-FT-TS	TBD	TBD
Marshall	518.04	0.783	AM	B13510-AM-TS	B13819-AM-TS	B13511-AM-TS	B13533-AM-TS	B14271-AM-TS	10030AH	10014SH
Dixie	535.90	0.814	DX	B13510-DX-TS	B13819-DX-TS	B13511-DX-TS	B13533-DX-TS	B14271-DX-TS	10030AH	10018SH
Aliolas	544.66	0.827	AV	B13510-AV-TS	B13819-AV-TS	B13511-AV-TS	B13533-AV-TS	B14271-AV-TS	TBD	TBD
Battleship	555.36	0.814	BJ	B13510-BJ-TS	B13819-BJ-TS	B13511-BJ-TS	B13533-BJ-TS	B14271-BJ-TS	TBD	TBD
Moreno	555.39	0.827	ME	B13510-ME-TS	B13819-ME-TS	B13511-ME-TS	B13533-ME-TS	B14271-ME-TS	TBD	TBD
Juniper	564.08	0.814	NP	B13510-NP-TS	B13819-NP-TS	B13511-NP-TS	B13533-NP-TS	B14271-NP-TS	TBD	TBD
Boyne	565.45	0.827	BY	B13510-BY-TS	B13819-BY-TS	B13511-BY-TS	B13533-BY-TS	B14271-BY-TS	TBD	TBD
Superstition	572.13	0.814	SW	B13510-SW-TS	B13819-SW-TS	B13511-SW-TS	B13533-SW-TS	B14271-SW-TS	TBD	TBD
McKinley	574.84	0.827	MK	B13510-MK-TS	B13819-MK-TS	B13511-MK-TS	B13533-MK-TS	B14271-MK-TS	TBD	TBD
Piestewa	583.56	0.827	PS	B13510-PS-TS	B13819-PS-TS	B13511-PS-TS	B13533-PS-TS	B14271-PS-TS	TBD	TBD
Fairweather	585.30	0.846	FW	B13510-FW-TS	B13819-FW-TS	B13511-FW-TS	B13533-FW-TS	B14271-FW-TS	TBD	TBD
Spruce	593.59	0.858	AR	B13510-AR-TS	B13819-AR-TS	B13511-AR-TS	B13533-AR-TS	B14271-AR-TS	TBD	TBD
Fletcher	595.36	0.846	FL	B13510-FL-TS	B13819-FL-TS	B13511-FL-TS	B13533-FL-TS	B14271-FL-TS	TBD	TBD
AinAnoub	604.32	0.858	AU	B13510-AU-TS	B13819-AU-TS	B13511-AU-TS	B13533-AU-TS	B14271-AU-TS	10030AH	10016SH
Ellison	604.76	0.846	ES	B13510-ES-TS	B13819-ES-TS	B13511-ES-TS	B13533-ES-TS	B14271-ES-TS	TBD	TBD
Skylight	614.38	0.858	AH	B13510-AH-TS	B13819-AH-TS	B13511-AH-TS	B13533-AH-TS	B14271-AH-TS	TBD	TBD
Darwin	623.77	0.858	DR	B13510-DR-TS	B13819-DR-TS	B13511-DR-TS	B13533-DR-TS	B14271-DR-TS	TBD	TBD
Algonquin	632.49	0.858	AQ	B13510-AQ-TS	B13819-AQ-TS	B13511-AQ-TS	B13533-AQ-TS	B14271-AQ-TS	10030AH	10014SH
Elmhurst	696.73	0.927	MH	B13510-MH-TS	B13819-MH-TS	B13511-MH-TS	B13533-MH-TS	B14271-MH-TS	10034AH	10018SH
Trident	708.13	0.927	TD	B13510-TD-TS	B13819-TD-TS	B13511-TD-TS	B13533-TD-TS	B14271-TD-TS	TBD	TBD
Washington	718.86	0.927	WS	B13510-WS-TS	B13819-WS-TS	B13511-WS-TS	B13533-WS-TS	B14271-WS-TS	TBD	TBD
Jefferson	728.92	0.927	AD	B13510-AD-TS	B13819-AD-TS	B13511-AD-TS	B13533-AD-TS	B14271-AD-TS	TBD	TBD
Martin	738.31	0.927	MA	B13510-MA-TS	B13819-MA-TS	B13511-MA-TS	B13533-MA-TS	B14271-MA-TS	10034AH	10014SH
Baldy	785.26	0.977	LD	B13510-LD-TS	B13819-LD-TS	B13511-LD-TS	B13533-LD-TS	B14271-LD-TS	TBD	TBD
Rainier	796.66	0.977	RR	B13510-RR-TS	B13819-RR-TS	B13511-RR-TS	B13533-RR-TS	B14271-RR-TS	TBD	TBD
PolarBear	796.98	0.990	PB	B13510-PB-TS	B13819-PB-TS	B13511-PB-TS	B13533-PB-TS	B14271-PB-TS	TBD	TBD
Beartooth	800.00	1.014	BC	B13510-BC-TS	B13819-BC-TS	B13511-BC-TS	B13533-BC-TS	B14271-BC-TS	TBD	TBD
Rincon	807.39	0.977	RC	B13510-RC-TS	B13819-RC-TS	B13511-RC-TS	B13533-RC-TS	B14271-RC-TS	TBD	TBD
Conte	809.05	0.990	CN	B13510-CN-TS	B13819-CN-TS	B13511-CN-TS	B13533-CN-TS	B14271-CN-TS	10034AH	10018SH
Adams	817.45	0.977	DM	B13510-DM-TS	B13819-DM-TS	B13511-DM-TS	B13533-DM-TS	B14271-DM-TS	TBD	TBD
LaPlata	820.44	0.990	LP	B13510-LP-TS	B13819-LP-TS	B13511-LP-TS	B13533-LP-TS	B14271-LP-TS	TBD	TBD
Massive	826.85	0.977	MS	B13510-MS-TS	B13819-MS-TS	B13511-MS-TS	B13533-MS-TS	B14271-MS-TS	TBD	TBD
Piveto	831.17	0.990	PV	B13510-PV-TS	B13819-PV-TS	B13511-PV-TS	B13533-PV-TS	B14271-PV-TS	TBD	TBD

continued



TS Conductors (AECC) – Compression Accessory Catalog (standard numbers) (cont.)

Conductor	kcmil	Diameter (in.)	Size Code	Single Dead End (B13510)	Double Dead End (B13819)	Comp. Joint (B13511)	15° Terminal (B13533)	0° Terminal (B14271)	AH Dies	SH Dies
Montalto	841.23	0.990	MD	B13510-MD-TS	B13819-MD-TS	B13511-MD-TS	B13533-MD-TS	B14271-MD-TS	TBD	TBD
GannettPeak	841.71	1.014	GP	B13510-GP-TS	B13819-GP-TS	B13511-GP-TS	B13533-GP-TS	B14271-GP-TS	TBD	TBD
Baalbek	853.77	1.014	BE	B13510-BE-TS	B13819-BE-TS	B13511-BE-TS	B13533-BE-TS	B14271-BE-TS	TBD	TBD
Foraker	865.17	1.014	FR	B13510-FR-TS	B13819-FR-TS	B13511-FR-TS	B13533-FR-TS	B14271-FR-TS	TBD	TBD
Carlton	875.90	1.014	CA	B13510-CA-TS	B13819-CA-TS	B13511-CA-TS	B13533-CA-TS	B14271-CA-TS	TBD	TBD
Hood	885.96	1.014	HD	B13510-HD-TS	B13819-HD-TS	B13511-HD-TS	B13533-HD-TS	B14271-HD-TS	TBD	TBD
Siyeh	914.85	1.036	SY	B13510-SY-TS	B13819-SY-TS	B13511-SY-TS	B13533-SY-TS	B14271-SY-TS	TBD	TBD
Bennett	959.81	1.063	BT	B13510-BT-TS	B13819-BT-TS	B13511-BT-TS	B13533-BT-TS	B14271-BT-TS	10034AH	10018SH
Cub	967.61	1.092	CB	B13510-CB-TS	B13819-CB-TS	B13511-CB-TS	B13533-CB-TS	B14271-CB-TS	TBD	TBD
Fernow	979.15	1.063	T	B13510-T-TS	B13819-T-TS	B13511-T-TS	B13533-T-TS	B14271-T-TS	10040AH	10018SH
CrestedButte	980.60	1.063	CT	B13510-CT-TS	B13819-CT-TS	B13511-CT-TS	B13533-CT-TS	B14271-CT-TS	TBD	TBD
Denali	981.73	1.092	DN	B13510-DN-TS	B13819-DN-TS	B13511-DN-TS	B13533-DN-TS	B14271-DN-TS	TBD	TBD
Charles	990.00	1.063	CL	B13510-CL-TS	B13819-CL-TS	B13511-CL-TS	B13533-CL-TS	B14271-CL-TS	TBD	TBD
CosoPeak	994.47	1.092	CP	B13510-CP-TS	B13819-CP-TS	B13511-CP-TS	B13533-CP-TS	B14271-CP-TS	10040AH	10018SH
RedButte	995.70	1.081	RB	B13510-RB-TS	B13819-RB-TS	B13511-RB-TS	B13533-RB-TS	B14271-RB-TS	TBD	TBD
Geduhn	1000.35	1.108	GD	B13510-GD-TS	B13819-GD-TS	B13511-GD-TS	B13533-GD-TS	B14271-GD-TS	TBD	TBD
Liberty	1006.54	1.092	LB	B13510-LB-TS	B13819-LB-TS	B13511-LB-TS	B13533-LB-TS	B14271-LB-TS	TBD	TBD
Grant	1014.47	1.108	GT	B13510-GT-TS	B13819-GT-TS	B13511-GT-TS	B13533-GT-TS	B14271-GT-TS	TBD	TBD
Gould	1027.21	1.108	AG	B13510-AG-TS	B13819-AG-TS	B13511-AG-TS	B13533-AG-TS	B14271-AG-TS	10040AH	10018SH
York	1036.84	1.140	YR	B13510-YR-TS	B13819-YR-TS	B13511-YR-TS	B13533-YR-TS	B14271-YR-TS	TBD	TBD
Fishers	1039.27	1.108	X	B13510-X-TS	B13819-X-TS	B13511-X-TS	B13533-X-TS	B14271-X-TS	10040AH	10018SH
Sun	1050.67	1.108	AS	B13510-AS-TS	B13819-AS-TS	B13511-AS-TS	B13533-AS-TS	B14271-AS-TS	10040AH	10018SH
Meridian	1052.40	1.140	MN	B13510-MN-TS	B13819-MN-TS	B13511-MN-TS	B13533-MN-TS	B14271-MN-TS	10042AH	10020SH
Echo	1067.25	1.140	EC	B13510-EC-TS	B13819-EC-TS	B13511-EC-TS	B13533-EC-TS	B14271-EC-TS	TBD	TBD
Royce	1075.10	1.131	YC	B13510-YC-TS	B13819-YC-TS	B13511-YC-TS	B13533-YC-TS	B14271-YC-TS	TBD	TBD
Apo	1078.28	1.127	QA	B13510-QA-TS	B13819-QA-TS	B13511-QA-TS	B13533-QA-TS	B14271-QA-TS	TBD	TBD
McHenrys	1081.37	1.140	MY	B13510-MY-TS	B13819-MY-TS	B13511-MY-TS	B13533-MY-TS	B14271-MY-TS	TBD	TBD
Zenobia	1089.68	1.127	ZN	B13510-ZN-TS	B13819-ZN-TS	B13511-ZN-TS	B13533-ZN-TS	B14271-ZN-TS	TBD	TBD
Pennell	1094.11	1.140	AN	B13510-AN-TS	B13819-AN-TS	B13511-AN-TS	B13533-AN-TS	B14271-AN-TS	10042AH	10018SH
Jackson	1098.56	1.131	Y	B13510-Y-TS	B13819-Y-TS	B13511-Y-TS	B13533-Y-TS	B14271-Y-TS	TBD	TBD
Combin	1100.41	1.127	CM	B13510-CM-TS	B13819-CM-TS	B13511-CM-TS	B13533-CM-TS	B14271-CM-TS	TBD	TBD
McCurdy	1106.17	1.140	MC	B13510-MC-TS	B13819-MC-TS	B13511-MC-TS	B13533-MC-TS	B14271-MC-TS	TBD	TBD
Amulet	1110.47	1.127	LT	B13510-LT-TS	B13819-LT-TS	B13511-LT-TS	B13533-LT-TS	B14271-LT-TS	TBD	TBD
Kinnerly	1119.35	1.131	KY	B13510-KY-TS	B13819-KY-TS	B13511-KY-TS	B13533-KY-TS	B14271-KY-TS	TBD	TBD
Nebo	1159.76	1.165	NB	B13510-NB-TS	B13819-NB-TS	B13511-NB-TS	B13533-NB-TS	B14271-NB-TS	TBD	TBD
OakBrook	1171.16	1.165	KB	B13510-KB-TS	B13819-KB-TS	B13511-KB-TS	B13533-KB-TS	B14271-KB-TS	TBD	TBD
Cloudveil	1181.89	1.165	E	B13510-E-TS	B13819-E-TS	B13511-E-TS	B13533-E-TS	B14271-E-TS	10042AH	10018SH
Hyndman	1191.95	1.165	HN	B13510-HN-TS	B13819-HN-TS	B13511-HN-TS	B13533-HN-TS	B14271-HN-TS	TBD	TBD
Hunter	1193.35	1.198	HU	B13510-HU-TS	B13819-HU-TS	B13511-HU-TS	B13533-HU-TS	B14271-HU-TS	TBD	TBD
Bear	1220.22	1.198	BB	B13510-BB-TS	B13819-BB-TS	B13511-BB-TS	B13533-BB-TS	B14271-BB-TS	10044AH	10018SH
BeaverCreek	1232.28	1.198	BQ	B13510-BQ-TS	B13819-BQ-TS	B13511-BQ-TS	B13533-BQ-TS	B14271-BQ-TS	TBD	TBD
Sox	1243.67	1.198	SX	B13510-SX-TS	B13819-SX-TS	B13511-SX-TS	B13533-SX-TS	B14271-SX-TS	10044AH	10018SH
Walter	1258.17	1.240	WL	B13510-WL-TS	B13819-WL-TS	B13511-WL-TS	B13533-WL-TS	B14271-WL-TS	TBD	TBD
Whitney	1273.74	1.240	WT	B13510-WT-TS	B13819-WT-TS	B13511-WT-TS	B13533-WT-TS	B14271-WT-TS	10044AH	10020SH
Bona	1288.58	1.240	BA	B13510-BA-TS	B13819-BA-TS	B13511-BA-TS	B13533-BA-TS	B14271-BA-TS	TBD	TBD
Breckenridge	1303.07	1.240	RG	B13510-RG-TS	B13819-RG-TS	B13511-RG-TS	B13533-RG-TS	B14271-RG-TS	TBD	TBD
Saddle	1315.81	1.240	SD	B13510-SD-TS	B13819-SD-TS	B13511-SD-TS	B13533-SD-TS	B14271-SD-TS	10044AH	10018SH
KeyStone	1359.60	1.259	KS	B13510-KS-TS	B13819-KS-TS	B13511-KS-TS	B13533-KS-TS	B14271-KS-TS	TBD	TBD
Copper	1371.66	1.259	CD	B13510-CD-TS	B13819-CD-TS	B13511-CD-TS	B13533-CD-TS	B14271-CD-TS	TBD	TBD
Cyclone	1383.05	1.259	CY	B13510-CY-TS	B13819-CY-TS	B13511-CY-TS	B13533-CY-TS	B14271-CY-TS	TBD	TBD
Camelback	1413.43	1.293	CK	B13510-CK-TS	B13819-CK-TS	B13511-CK-TS	B13533-CK-TS	B14271-CK-TS	TBD	TBD

continued

TS Conductors (AECC) – Compression Accessory Catalog (standard numbers) (cont.)

Conductor	kcmil	Diameter (in.)	Size Code	Single Dead End (B13510)	Double Dead End (B13819)	Comp. Joint (B13511)	15° Terminal (B13533)	0° Terminal (B14271)	AH Dies	SH Dies
BlackStar	1427.55	1.293	TK	B13510-TK-TS	B13819-TK-TS	B13511-TK-TS	B13533-TK-TS	B14271-TK-TS	TBD	TBD
Bigelow	1440.29	1.293	LC	B13510-LC-TS	B13819-LC-TS	B13511-LC-TS	B13533-LC-TS	B14271-LC-TS	TBD	TBD
Elysium	1452.35	1.293	EL	B13510-EL-TS	B13819-EL-TS	B13511-EL-TS	B13533-EL-TS	B14271-EL-TS	10044AH	10018SH
Harvard	1463.75	1.293	HR	B13510-HR-TS	B13819-HR-TS	B13511-HR-TS	B13533-HR-TS	B14271-HR-TS	10044AH	10018SH
BearDown	1479.86	1.315	RD	B13510-RD-TS	B13819-RD-TS	B13511-RD-TS	B13533-RD-TS	B14271-RD-TS	TBD	TBD
Basin	1493.65	1.315	N	B13510-N-TS	B13819-N-TS	B13511-N-TS	B13533-N-TS	B14271-N-TS	10048AH	10018SH
BlancaPeak	1494.23	1.315	KP	B13510-KP-TS	B13819-KP-TS	B13511-KP-TS	B13533-KP-TS	B14271-KP-TS	TBD	TBD
Turret	1555.12	1.345	TR	B13510-TR-TS	B13819-TR-TS	B13511-TR-TS	B13533-TR-TS	B14271-TR-TS	TBD	TBD
Kennedy	1567.86	1.345	KN	B13510-KN-TS	B13819-KN-TS	B13511-KN-TS	B13533-KN-TS	B14271-KN-TS	TBD	TBD
Pyramid	1579.92	1.345	PY	B13510-PY-TS	B13819-PY-TS	B13511-PY-TS	B13533-PY-TS	B14271-PY-TS	TBD	TBD
Tyndall	1602.05	1.345	TN	B13510-TN-TS	B13819-TN-TS	B13511-TN-TS	B13533-TN-TS	B14271-TN-TS	TBD	TBD
Loon	1604.42	1.382	BL	B13510-BL-TS	B13819-BL-TS	B13511-BL-TS	B13533-BL-TS	B14271-BL-TS	TBD	TBD
Bersfort	1608.27	1.378	AB	B13510-AB-TS	B13819-AB-TS	B13511-AB-TS	B13533-AB-TS	B14271-AB-TS	10040AH	10024SHSP1
Turtle	1620.00	1.382	TG	B13510-TG-TS	B13819-TG-TS	B13511-TG-TS	B13533-TG-TS	B14271-TG-TS	TBD	TBD
Peak	1634.83	1.382	BP	B13510-BP-TS	B13819-BP-TS	B13511-BP-TS	B13533-BP-TS	B14271-BP-TS	TBD	TBD
SaintElias	1648.95	1.382	SE	B13510-SE-TS	B13819-SE-TS	B13511-SE-TS	B13533-SE-TS	B14271-SE-TS	TBD	TBD
Bryce	1659.25	1.386	YD	B13510-YD-TS	B13819-YD-TS	B13511-YD-TS	B13533-YD-TS	B14271-YD-TS	TBD	TBD
Lucania	1661.69	1.382	AL	B13510-AL-TS	B13819-AL-TS	B13511-AL-TS	B13533-AL-TS	B14271-AL-TS	10048AH	10018SH
Palisade	1672.00	1.386	PU	B13510-PU-TS	B13819-PU-TS	B13511-PU-TS	B13533-PU-TS	B14271-PU-TS	TBD	TBD
Vail	1684.05	1.386	VL	B13510-VL-TS	B13819-VL-TS	B13511-VL-TS	B13533-VL-TS	B14271-VL-TS	TBD	TBD
Bierstadt	1687.45	1.408	BS	B13510-BS-TS	B13819-BS-TS	B13511-BS-TS	B13533-BS-TS	B14271-BS-TS	TBD	TBD
WildPeak	1695.45	1.386	WA	B13510-WA-TS	B13819-WA-TS	B13511-WA-TS	B13533-WA-TS	B14271-WA-TS	TBD	TBD
BlackElk	1706.00	1.386	BV	B13510-BV-TS	B13819-BV-TS	B13511-BV-TS	B13533-BV-TS	B14271-BV-TS	TBD	TBD
Sunlight	1722.00	1.427	SN	B13510-SN-TS	B13819-SN-TS	B13511-SN-TS	B13533-SN-TS	B14271-SN-TS	TBD	TBD
Andes	1737.54	1.427	CH	B13510-CH-TS	B13819-CH-TS	B13511-CH-TS	B13533-CH-TS	B14271-CH-TS	TBD	TBD
Handies	1752.00	1.427	HF	B13510-HF-TS	B13819-HF-TS	B13511-HF-TS	B13533-HF-TS	B14271-HF-TS	TBD	TBD
Jewel	1766.51	1.427	JW	B13510-JW-TS	B13819-JW-TS	B13511-JW-TS	B13533-JW-TS	B14271-JW-TS	TBD	TBD
Onyx	1779.24	1.427	NX	B13510-NX-TS	B13819-NX-TS	B13511-NX-TS	B13533-NX-TS	B14271-NX-TS	TBD	TBD
Oxford	1932.00	1.504	XF	B13510-XF-TS	B13819-XF-TS	B13511-XF-TS	B13533-XF-TS	B14271-XF-TS	10048AH	10024SHSPI
Shasta	1947.42	1.504	AA	B13510-AA-TS	B13819-AA-TS	B13511-AA-TS	B13533-AA-TS	B14271-AA-TS	10048AH	10020SH
TaumSauk	1962.00	1.504	TM	B13510-TM-TS	B13819-TM-TS	B13511-TM-TS	B13533-TM-TS	B14271-TM-TS	TBD	TBD
Livermore	1976.00	1.504	LV	B13510-LV-TS	B13819-LV-TS	B13511-LV-TS	B13533-LV-TS	B14271-LV-TS	TBD	TBD
TempeButte	1978.30	1.515	TU	B13510-TU-TS	B13819-TU-TS	B13511-TU-TS	B13533-TU-TS	B14271-TU-TS	TBD	TBD
Evans	2048.11	1.545	AE	B13510-AE-TS	B13819-AE-TS	B13511-AE-TS	B13533-AE-TS	B14271-AE-TS	10048AH	10020SHSP1
Grays	2064.00	1.545	AY	B13510-AY-TS	B13819-AY-TS	B13511-AY-TS	B13533-AY-TS	B14271-AY-TS	TBD	TBD
BlackHawk	2078.52	1.545	WK	B13510-WK-TS	B13819-WK-TS	B13511-WK-TS	B13533-WK-TS	B14271-WK-TS	TBD	TBD
Williamson	2092.64	1.545	Z	B13510-Z-TS	B13819-Z-TS	B13511-Z-TS	B13533-Z-TS	B14271-Z-TS	10048AH	10020SH
Crestone	2105.38	1.545	NC	B13510-NC-TS	B13819-NC-TS	B13511-NC-TS	B13533-NC-TS	B14271-NC-TS	TBD	TBD
Bull	2214.93	1.602	BU	B13510-BU-TS	B13819-BU-TS	B13511-BU-TS	B13533-BU-TS	B14271-BU-TS	TBD	TBD
Bespin	2230.49	1.602	NT	B13510-NT-TS	B13819-NT-TS	B13511-NT-TS	B13533-NT-TS	B14271-NT-TS	TBD	TBD
Belukha	2245.34	1.602	BK	B13510-BK-TS	B13819-BK-TS	B13511-BK-TS	B13533-BK-TS	B14271-BK-TS	10048AH	10020SH
Titan	2259.46	1.602	TH	B13510-TH-TS	B13819-TH-TS	B13511-TH-TS	B13533-TH-TS	B14271-TH-TS	TBD	TBD
Roger	2272.00	1.602	RF	B13510-RF-TS	B13819-RF-TS	B13511-RF-TS	B13533-RF-TS	B14271-RF-TS	TBD	TBD
Scafell	2515.86	1.700	AF	B13510-AF-TS	B13819-AF-TS	B13511-AF-TS	B13533-AF-TS	B14271-AF-TS	10048AH	10020SHSP1
Killdeer	2609.88	1.720	K	B13510-K-TS	B13819-K-TS	B13511-K-TS	B13533-K-TS	B14271-K-TS	10048AH	10020SH
Sanford	2715.48	1.762	W	B13510-W-TS	B13819-W-TS	B13511-W-TS	B13533-W-TS	B14271-W-TS	TBD	TBD
Pico	2731.04	1.762	PC	B13510-PC-TS	B13819-PC-TS	B13511-PC-TS	B13533-PC-TS	B14271-PC-TS	TBD	TBD
Blackburn	2745.88	1.762	BN	B13510-BN-TS	B13819-BN-TS	B13511-BN-TS	B13533-BN-TS	B14271-BN-TS	TBD	TBD
Mammoth	2760.01	1.762	MM	B13510-MM-TS	B13819-MM-TS	B13511-MM-TS	B13533-MM-TS	B14271-MM-TS	TBD	TBD
Wood	2773.00	1.762	WD	B13510-WD-TS	B13819-WD-TS	B13511-WD-TS	B13533-WD-TS	B14271-WD-TS	TBD	TBD
Sawtooth	2859.00	1.802	SV	B13510-SV-TS	B13819-SV-TS	B13511-SV-TS	B13533-SV-TS	B14271-SV-TS	TBD	TBD
Arvon	3099.00	1.880	VN	B13510-VN-TS	B13819-VN-TS	B13511-VN-TS	B13533-VN-TS	B14271-VN-TS	TBD	TBD

TS Conductors (AECC) – Conductor Specifications

Encapsulated Aluminum Carbon-fiber Composite core. Values read from individual TS spec sheets. Max emergency temp 200°C (180°C continuous).

Standard Installation Practice

TS Conductor's AECC technology solves the reliability, longevity, and workability concerns of first-generation advanced conductors. Its pre-tensioned carbon fiber core, protected by a thick aluminum encapsulation, creates a conductor that delivers high performance without compromising safety and reliability. The patented design eliminates the need for specialized installation and maintenance, resists physical degradation, and withstands severe weather conditions.

Specifications – Dimensions

The table below includes conductor size (kcmil), dimensions and geometry of aluminum strands. Due to space constraints, resistance, GMR, reactance, ampacity, spec ID and code word are included in the table on the following page.

Code Word	Conductor Size (kcmil)	Comparable Substitution ACSR Conductor	Diameter			Geometry		Unit Weight (lbs/ft)	RBS (lbs)
		Code Word	Ice Thickness (in.)	Core (mm)	Total (in.)	No. of Al Layers ²	No. of Al Strands		
GreatBlue	120	Raven (1/0)	1.50	5.0	0.398	1	0	0.13621	10510
Baden	265	AAAC Dog	1.25	4.5	0.557	2	10	0.26582	11680
Royal	214	Penguin	1.25	5.0	0.512	2	10	0.22185	13700
Wright	258	Penguin	1.50	5.5	0.563	2	10	0.26756	16550
Burnt	383	Junco	0.00	5.0	0.666	2	10	0.37985	14780
GoatRock	385	Ostrich	0.00	5.5	0.673	2	10	0.38656	17360
SantaAna	377	Ostrich	0.50	6.0	0.673	2	10	0.38393	20150
Palomar	369	Ostrich	1.25	6.5	0.673	2	10	0.38298	23160
Bonhomme	360	Ostrich	1.50	7.0	0.673	2	10	0.38003	26390
Forelien	438	Linnet	0.00	6.0	0.720	2	10	0.44193	20540
McLoughlin	430	Linnet	0.50	6.5	0.720	2	10	0.43998	23550
Hubbard	421	Linnet	1.50	7.0	0.720	2	10	0.43703	26780
Marcy	459	Oriole	0.00	6.5	0.741	2	10	0.46598	23740
Phelps	450	Oriole	0.50	7.0	0.741	2	12	0.46403	26960
Crystal	440	Oriole	1.00	7.5	0.741	2	12	0.46175	30460
Bush	430	Oriole	1.50	8.0	0.741	2	12	0.45847	34190
Marshall	518	Ibis	0.50	6.5	0.783	2	10	0.52198	24120
Flattop	509	Ibis	0.75	7.0	0.783	2	12	0.52003	27340
Allen	500	Ibis	1.50	7.5	0.783	2	12	0.51775	30840
Superstition	572	Tailorbird	0.50	6.0	0.814	3	24	0.56793	21400
Juniper	564	Tailorbird	0.75	6.5	0.814	2	10	0.56598	24410
Battleship	555	Tailorbird	1.25	7.0	0.814	2	12	0.56403	27640
Dixie	536	Tailorbird	1.50	8.0	0.814	2	12	0.55747	34870
Piestewa	584	Panther	0.00	6.5	0.827	3	24	0.58398	24540
McKinley	575	Panther	0.50	7.0	0.827	2	12	0.58203	27760
Boyne	565	Panther	0.75	7.5	0.827	2	12	0.57975	31260
Moreno	555	Panther	1.25	8.0	0.827	2	12	0.57547	34990
Aliolas	545	Panther	1.50	8.5	0.827	2	12	0.57354	38960
Ellison	605	Flicker	0.75	7.0	0.846	3	24	0.61003	27950
Fletcher	595	Flicker	1.25	7.5	0.846	2	12	0.60775	31460
Fairweather	585	Flicker	1.50	8.0	0.846	2	12	0.60447	35190
Algonquin	632	Hawk	0.50	6.5	0.858	3	24	0.62998	24850
Darwin	624	Hawk	0.75	7.0	0.858	3	24	0.62803	28080
Skylight	614	Hawk	1.00	7.5	0.858	2	12	0.62575	31580
AinAnoub	604	Hawk	1.25	8.0	0.858	2	12	0.62247	35310

continued

TS Conductors (AECC) – Conductor Specifications (cont.)

Specifications – Dimensions

The table below includes resistance, GMR, reactance, ampacity, spec ID and code word. For conductor size (kcmil), dimensions and geometry of aluminum strands refer to table on the previous page.

Resistance				GMR (ft)	Reactance @ 1 ft Spacing 60 Hz		Ampacity				Spec ID	Code Word
DC @ 20° CΩ/mile	AC-60 Hz				Inductive X _a Ω/mile	Capacitive X' _a MΩ-mile	@ 75°C amp	@ 100°C amp	@ 180°C amp	@ 200°C amp		
	@ 25°C Ω/mile	@ 180°C Ω/mile	@ 200°C Ω/mile									
0.72643	0.74140	1.20073	1.26000	0.01410	0.51707	0.12160	275	333	452	474	27431	GreatBlue
0.33303	0.34039	0.55073	0.57787	0.01881	0.48215	0.11162	442	538	736	774	50563	Baden
0.41128	0.42006	0.67996	0.71350	0.01758	0.49034	0.11413	389	473	646	679	48116	Royal
0.34089	0.34831	0.56364	0.59142	0.01933	0.47880	0.11131	438	534	730	767	33696	Wright
0.23073	0.23631	0.38176	0.40053	0.02237	0.46109	0.10633	556	679	933	982	27441	Burnt
0.22937	0.23488	0.37950	0.39816	0.02275	0.45907	0.10601	559	683	939	988	50510	GoatRock
0.23369	0.23920	0.38661	0.40563	0.02290	0.45824	0.10601	554	677	931	979	50511	SantaAna
0.23858	0.24412	0.39463	0.41405	0.02308	0.45731	0.10601	548	670	921	969	50512	Palomar
0.24412	0.24970	0.40377	0.42365	0.02327	0.45633	0.10601	542	662	911	958	50513	Bonhomme
0.20137	0.20640	0.33325	0.34962	0.02437	0.45073	0.10401	607	743	1023	1076	26213	Forelien
0.20499	0.21001	0.33922	0.35589	0.02453	0.44990	0.10401	602	736	1014	1067	26217	McLoughlin
0.20907	0.21409	0.34590	0.36291	0.02471	0.44902	0.10401	596	729	1004	1057	26218	Hubbard
0.19230	0.19715	0.31827	0.33390	0.02519	0.44672	0.10316	626	766	1056	1111	26230	Marcy
0.19589	0.20072	0.32416	0.34009	0.02536	0.44588	0.10316	620	759	1046	1101	26229	Phelps
0.19990	0.20474	0.33076	0.34702	0.02553	0.44505	0.10316	614	751	1036	1090	50352	Crystal
0.20439	0.20924	0.33814	0.35477	0.02573	0.44414	0.10316	607	743	1025	1078	26232	Bush
0.17031	0.17488	0.28202	0.29584	0.02649	0.44058	0.10152	674	826	1141	1201	35708	Marshall
0.17312	0.17765	0.28662	0.30068	0.02666	0.43981	0.10152	669	820	1132	1192	48052	Flattop
0.17625	0.18076	0.29174	0.30606	0.02683	0.43905	0.10152	663	812	1122	1181	46963	Allen
0.15454	0.15901	0.25604	0.26856	0.02731	0.43690	0.10037	715	876	1212	1276	50514	Superstition
0.15665	0.16107	0.25953	0.27223	0.02746	0.43622	0.10037	710	870	1204	1268	48025	Juniper
0.15901	0.16339	0.26337	0.27627	0.02762	0.43551	0.10037	705	864	1195	1258	48104	Battleship
0.16439	0.16869	0.27217	0.28552	0.02797	0.43402	0.10037	694	850	1176	1238	48026	Dixie
0.15145	0.15582	0.25093	0.26320	0.02786	0.43447	0.09991	725	889	1230	1295	50546	Piestewa
0.15365	0.15797	0.25454	0.26700	0.02802	0.43377	0.09991	720	883	1221	1286	50547	McKinley
0.15610	0.16038	0.25853	0.27119	0.02818	0.43308	0.09991	714	876	1212	1276	50548	Boyne
0.15865	0.16289	0.26271	0.27559	0.02836	0.43232	0.09991	709	869	1202	1266	50549	Moreno
0.16166	0.16587	0.26764	0.28078	0.02855	0.43152	0.09991	702	861	1191	1254	50550	Aliolas
0.14609	0.15034	0.24207	0.25391	0.02862	0.43121	0.09923	742	911	1261	1328	50516	Ellison
0.14830	0.15250	0.24569	0.25771	0.02878	0.43054	0.09923	737	904	1252	1319	28544	Fletcher
0.15075	0.15490	0.24970	0.26193	0.02895	0.42980	0.09923	731	897	1242	1308	33698	Fairweather
0.13978	0.14406	0.23173	0.24304	0.02884	0.43028	0.09881	761	934	1295	1364	26257	Algonquin
0.14166	0.14587	0.23478	0.24625	0.02900	0.42963	0.09881	757	929	1286	1355	26255	Darwin
0.14374	0.14790	0.23817	0.24982	0.02915	0.42898	0.09881	751	922	1277	1345	26259	Skylight
0.14603	0.15015	0.24191	0.25375	0.02932	0.42826	0.09881	746	915	1267	1335	30682	AinAnoub

continued



TS Conductors (AECC) – Conductor Specifications (cont.)

Specifications – Dimensions

The table below includes conductor size (kcmil), dimensions and geometry of aluminum strands. Due to space constraints, resistance, GMR, reactance, ampacity, spec ID and code word are included in the table on the following page.

Code Word	Conductor Size (kcmil)	Comparable Substitution ACSR Conductor	Diameter			Geometry		Unit Weight (lbs/ft)	RBS (lbs)
		Code Word	Ice Thickness (in.)	Core (mm)	Total (in.)	No. of Al Layers ²	No. of Al Strands		
Spruce	594	Hawk	1.50	8.5	0.858	2	12	0.61954	39270
Martin	738	Dove	0.50	7.0	0.927	3	28	0.73503	28810
Jefferson	729	Dove	0.75	7.5	0.927	3	28	0.73275	32310
Washington	719	Dove	1.00	8.0	0.927	3	28	0.72947	36040
Trident	708	Dove	1.25	8.5	0.927	2	12	0.72754	40010
Elmhurst	697	Dove	1.50	9.0	0.927	2	12	0.72460	44220
Massive	827	Rook	0.50	7.0	0.977	3	28	0.81803	29380
Adams	817	Rook	0.75	7.5	0.977	3	28	0.81575	32880
Rincon	807	Rook	1.00	8.0	0.977	3	28	0.81347	36610
Rainier	797	Rook	1.25	8.5	0.977	3	28	0.81054	40580
Baldy	785	Rook	1.50	9.0	0.977	3	28	0.80760	44790
Montalto	841	Grosbeak	0.50	7.5	0.990	3	28	0.83875	33030
Piveto	831	Grosbeak	0.75	8.0	0.990	3	28	0.83547	36760
LaPlata	820	Grosbeak	1.00	8.5	0.990	3	28	0.83254	40730
Conte	809	Grosbeak	1.25	9.0	0.990	3	28	0.82960	44940
PolarBear	797	Grosbeak	1.50	9.5	0.990	3	28	0.82667	49400
Hood	886	Gannet	0.50	7.5	1.014	3	28	0.88075	33320
Carlton	876	Gannet	0.75	8.0	1.014	3	28	0.87747	37050
Foraker	865	Gannet	1.00	8.5	1.014	3	28	0.87454	41020
Baalbek	854	Gannet	1.25	9.0	1.014	3	28	0.87160	45230
GannettPeak	842	Gannet	1.50	9.5	1.014	3	28	0.86867	49690
Beartooth	800	Gannet	Long Span	11.0	1.014	2	12	0.85689	64420
Siyeh	915	Stilt	1.00	8.5	1.036	3	28	0.92254	41330
Charles	990	Tern	0.50	7.0	1.063	3	28	0.97203	30420
CrestedButte	981	Tern	0.75	7.5	1.063	3	28	0.96975	33930
Fernow	979	Tern	1.00	8.0	1.063	3	28	0.97447	37710
Bennett	960	Tern	1.50	8.5	1.063	3	28	0.96454	41620
RedButte	996	Redwing	0.50	8.5	1.081	3	28	0.99854	41850
Liberty	1007	Redwing	0.75	9.0	1.092	3	28	1.01660	46210
CosoPeak	994	Redwing	1.00	9.5	1.092	3	28	1.01267	50670
Denali	982	Redwing	1.25	10.0	1.092	3	28	1.00908	55370
Cub	968	Redwing	1.50	10.5	1.092	3	28	1.00548	60270
Sun	1051	Drake	0.50	8.5	1.108	3	24	1.04954	42200
Fishers	1039	Drake	0.75	9.0	1.108	3	28	1.04660	46420
Gould	1027	Drake	1.00	9.5	1.108	3	28	1.04367	50880
Grant	1014	Drake	1.25	10.0	1.108	3	28	1.04008	55580
Geduhn	1000	Drake	1.50	10.5	1.108	3	28	1.03648	60480
Amulet	1110	Zebra	0.50	7.5	1.127	3	24	1.09175	34760
Combin	1100	Zebra	0.75	8.0	1.127	3	24	1.08847	38490
Zenobia	1090	Zebra	1.00	8.5	1.127	3	24	1.08654	42450
Apo	1078	Zebra	1.25	9.0	1.127	3	28	1.08360	46670
Kinnerly	1119	Ruddy	0.75	7.5	1.131	3	24	1.10075	34810
Jackson	1099	Ruddy	1.00	8.5	1.131	3	24	1.09454	42510
Royce	1075	Ruddy	1.50	9.5	1.131	3	28	1.08867	51190
McCurdy	1106	Mallard	0.50	9.0	1.140	3	28	1.10960	46850

continued

TS Conductors (AECC) – Conductor Specifications (cont.)

Specifications – Dimensions

The table below includes resistance, GMR, reactance, ampacity, spec ID and code word. For conductor size (kcmil), dimensions and geometry of aluminum strands refer to table on the previous page.

Resistance				GMR (ft)	Reactance @ 1 ft Spacing 60 Hz		Ampacity				Spec ID	Code Word
DC @ 20° CΩ/mile	AC-60 Hz				Inductive X _a Ω/mile	Capacitive X' _a MΩ-mile	@ 75°C amp	@ 100°C amp	@ 180°C amp	@ 200°C amp		
	@ 25°C Ω/mile	@ 180°C Ω/mile	@ 200°C Ω/mile									
0.14857	0.15264	0.24607	0.25813	0.02950	0.42751	0.09881	739	907	1257	1323	26260	Spruce
0.11977	0.12387	0.19877	0.20843	0.03115	0.42091	0.09652	838	1031	1432	1509	26273	Martin
0.12125	0.12528	0.20117	0.21096	0.03130	0.42034	0.09652	833	1025	1423	1500	26269	Jefferson
0.12288	0.12684	0.20381	0.21375	0.03146	0.41971	0.09652	828	1018	1414	1490	26272	Washington
0.12467	0.12857	0.20672	0.21681	0.03164	0.41905	0.09652	822	1011	1404	1480	26274	Trident
0.12663	0.13046	0.20991	0.22017	0.03180	0.41841	0.09652	816	1003	1394	1468	26275	Elmhurst
0.10699	0.11110	0.17778	0.18639	0.03273	0.41494	0.09496	898	1105	1539	1623	46992	Massive
0.10817	0.11219	0.17968	0.18839	0.03287	0.41442	0.09496	893	1100	1531	1614	50518	Adams
0.10947	0.11341	0.18177	0.19059	0.03302	0.41385	0.09496	888	1094	1522	1605	48096	Rincon
0.11089	0.11474	0.18406	0.19300	0.03319	0.41324	0.09496	883	1087	1513	1595	48097	Rainier
0.11244	0.11622	0.18656	0.19564	0.03335	0.41265	0.09496	877	1080	1503	1584	29650	Baldy
0.10513	0.10915	0.17468	0.18314	0.03327	0.41293	0.09457	909	1119	1559	1644	26336	Montalto
0.10635	0.11029	0.17666	0.18523	0.03343	0.41236	0.09457	904	1113	1551	1635	26335	Piveto
0.10769	0.11155	0.17879	0.18747	0.03359	0.41177	0.09457	899	1107	1541	1625	50519	LaPlata
0.10915	0.11293	0.18116	0.18997	0.03375	0.41119	0.09457	893	1100	1531	1614	45911	Conte
0.11074	0.11444	0.18373	0.19267	0.03393	0.41056	0.09457	887	1092	1520	1603	30687	PolarBear
0.09992	0.10336	0.16586	0.17392	0.03403	0.41021	0.09386	940	1157	1612	1700	50521	Hood
0.10102	0.10498	0.16791	0.17603	0.03418	0.40967	0.09386	933	1149	1602	1690	42796	Carlton
0.10215	0.10602	0.16969	0.17791	0.03434	0.40910	0.09386	928	1144	1594	1681	49320	Foraker
0.10346	0.10724	0.17184	0.18018	0.03450	0.40855	0.09386	923	1137	1584	1670	49321	Baalbek
0.10489	0.10859	0.17412	0.18258	0.03467	0.40794	0.09386	917	1129	1574	1659	48031	GannettPeak
0.11021	0.11370	0.18277	0.19168	0.03522	0.40602	0.09386	895	1103	1536	1619	48062	Beartooth
0.09670	0.10059	0.16079	0.16856	0.03502	0.40670	0.09322	959	1182	1649	1739	44821	Siyeh
0.08949	0.09372	0.14909	0.15623	0.03544	0.40529	0.09246	1001	1235	1726	1821	29564	Charles
0.09031	0.09444	0.15040	0.15762	0.03557	0.40484	0.09246	997	1230	1718	1813	50551	CrestedButte
0.09041	0.09444	0.15052	0.15776	0.03571	0.40434	0.09246	997	1229	1718	1812	36733	Fernow
0.09219	0.09612	0.15341	0.16080	0.03587	0.40382	0.09246	988	1218	1701	1795	50552	Bennett
0.08888	0.09285	0.14797	0.15508	0.03643	0.40193	0.09196	1010	1246	1742	1838	29651	RedButte
0.08789	0.09178	0.14631	0.15335	0.03692	0.40029	0.09166	1018	1257	1757	1854	50523	Liberty
0.08892	0.09271	0.14795	0.15508	0.03709	0.39975	0.09166	1013	1250	1747	1844	29568	CosoPeak
0.09003	0.09372	0.14974	0.15697	0.03726	0.39919	0.09166	1007	1243	1737	1832	50411	Denali
0.09132	0.09492	0.15177	0.15911	0.03743	0.39865	0.09166	1001	1235	1725	1820	29569	Cub
0.08425	0.08828	0.14039	0.14712	0.03728	0.39914	0.09123	1043	1288	1802	1902	25923	Sun
0.08514	0.08906	0.14182	0.14863	0.03742	0.39866	0.09123	1038	1281	1793	1892	25922	Fishers
0.08610	0.08992	0.14333	0.15023	0.03759	0.39814	0.09123	1033	1275	1783	1882	25914	Gould
0.08714	0.09086	0.14499	0.15197	0.03776	0.39759	0.09123	1027	1268	1773	1871	25915	Grant
0.08834	0.09197	0.14693	0.15403	0.03792	0.39705	0.09123	1021	1260	1761	1859	25916	Geduhn
0.07978	0.08408	0.13318	0.13952	0.03758	0.39816	0.09073	1074	1327	1860	1963	50553	Amulet
0.08048	0.08467	0.13430	0.14071	0.03772	0.39771	0.09073	1070	1322	1852	1955	50554	Combin
0.08125	0.08532	0.13551	0.14199	0.03786	0.39724	0.09073	1066	1316	1844	1946	50555	Zenobia
0.08207	0.08604	0.13679	0.14334	0.03801	0.39677	0.09073	1061	1311	1835	1937	25975	Apo
0.07915	0.08346	0.13216	0.13845	0.03771	0.39773	0.09062	1079	1334	1869	1973	50562	Kinnerly
0.08059	0.08468	0.13444	0.14086	0.03800	0.39682	0.09062	1071	1323	1853	1956	29655	Jackson
0.08228	0.08616	0.13709	0.14367	0.03830	0.39585	0.09062	1061	1311	1835	1937	29555	Royce
0.08001	0.08402	0.13343	0.13981	0.03842	0.39546	0.09038	1077	1331	1865	1969	48092	McCurdy

continued



TS Conductors (AECC) – Conductor Specifications (cont.)

Specifications – Dimensions

The table below includes conductor size (kcmil), dimensions and geometry of aluminum strands. Due to space constraints, resistance, GMR, reactance, ampacity, spec ID and code word are included in the table on the following page.

Code Word	Conductor Size (kcmil)	Comparable Substitution ACSR Conductor	Diameter			Geometry		Unit Weight (lbs/ft)	RBS (lbs)
		Code Word	Ice Thickness (in.)	Core (mm)	Total (in.)	No. of Al Layers ²	No. of Al Strands		
Pennell	1094	Mallard	0.75	9.5	1.140	3	28	1.10567	51310
McHenrys	1081	Mallard	1.00	10.0	1.140	3	28	1.10308	56010
Echo	1067	Mallard	1.25	10.5	1.140	3	28	1.09948	60910
Meridian	1052	Mallard	1.50	11.0	1.140	3	28	1.09389	66040
York	1037	Mallard	Long Span	11.5	1.140	3	28	1.09065	71430
Hyndman	1192	Rail	0.75	7.5	1.165	3	24	1.16975	35280
Cloudveil	1182	Rail	1.00	8.0	1.165	3	24	1.16647	39010
OakBrook	1171	Rail	1.25	8.5	1.165	3	28	1.16354	42980
Nebo	1160	Rail	1.50	9.0	1.165	3	28	1.15960	47190
Sox	1244	Cardinal	0.50	8.5	1.198	3	28	1.23254	43440
BeaverCreek	1232	Cardinal	0.75	9.0	1.198	3	28	1.22960	47660
Bear	1220	Cardinal	1.00	9.5	1.198	3	28	1.22567	52120
Hunter	1193	Cardinal	1.50	10.5	1.198	3	28	1.21748	61710
Saddle	1316	Canvasback	0.50	9.5	1.240	3	28	1.31567	52730
Breckenridge	1303	Canvasback	0.75	10.0	1.240	3	28	1.31208	57430
Bona	1289	Canvasback	1.00	10.5	1.240	3	28	1.30848	62320
Whitney	1274	Canvasback	1.25	11.0	1.240	3	28	1.30289	67460
Walter	1258	Canvasback	1.50	11.5	1.240	3	28	1.29965	72850
Cyclone	1383	Bluejay	1.00	8.5	1.259	3	28	1.36654	44330
Copper	1372	Bluejay	1.25	9.0	1.259	3	28	1.36060	48550
KeyStone	1360	Bluejay	1.50	9.5	1.259	3	28	1.35667	53010
Harvard	1464	Finch	0.50	8.5	1.293	4	48	1.44254	44850
Elysium	1452	Finch	0.75	9.0	1.293	3	28	1.43860	49070
Bigelow	1440	Finch	1.00	9.5	1.293	3	28	1.43567	53530
BlackStar	1428	Finch	1.25	10.0	1.293	3	28	1.43208	58230
Camelback	1413	Finch	1.50	10.5	1.293	3	28	1.42548	63120
Basin	1494	AAAC Sorbus	1.00	9.5	1.315	4	48	1.48567	53870
BlancaPeak	1494	AAAC Sorbus	1.25	10.0	1.315	3	28	1.49508	58650
BearDown	1480	AAAC Sorbus	1.50	10.5	1.315	3	28	1.49048	63550
Tyndall	1602	Bittern	0.50	8.0	1.345	4	48	1.56447	41700
Langley	1591	Bittern	0.75	8.5	1.345	4	48	1.56254	45670
Pyramid	1580	Bittern	1.00	9.0	1.345	4	48	1.55960	49880
Kennedy	1568	Bittern	1.25	9.5	1.345	3	28	1.55567	54340
Turret	1555	Bittern	1.50	10.0	1.345	3	28	1.55208	59040
Bersfort	1608	Pheasant	1.50	11.5	1.378	4	42	1.63165	75090
Lucania	1662	Pheasant	0.50	9.5	1.382	4	48	1.64367	54950
SaintElias	1649	Pheasant	0.75	10.0	1.382	3	28	1.64108	59640
Peak	1635	Pheasant	1.00	10.5	1.382	3	28	1.63648	64540
Turtle	1620	Pheasant	1.25	11.0	1.382	3	28	1.63189	69680
Loon	1604	Pheasant	1.50	11.5	1.382	3	28	1.62765	75070
BlackElk	1706	Dipper	0.50	8.0	1.386	4	48	1.66347	42370
WildPeak	1695	Dipper	0.75	8.5	1.386	4	48	1.66054	46340
Vail	1684	Dipper	1.00	9.0	1.386	4	48	1.65760	50550
Palisade	1672	Dipper	1.25	9.5	1.386	4	48	1.65367	55010
Bryce	1659	Dipper	1.50	10.0	1.386	3	28	1.65108	59710

continued

TS Conductors (AECC) – Conductor Specifications (cont.)

Specifications – Dimensions

The table below includes resistance, GMR, reactance, ampacity, spec ID and code word. For conductor size (kcmil), dimensions and geometry of aluminum strands refer to table on the previous page.

Resistance				GMR (ft)	Reactance @ 1 ft Spacing 60 Hz		Ampacity				Spec ID	Code Word
DC @ 20° CΩ/mile	AC-60 Hz				Inductive X _a Ω/mile	Capacitive X' _a MΩ-mile	@ 75°C amp	@ 100°C amp	@ 180°C amp	@ 200°C amp		
	@ 25°C Ω/mile	@ 180°C Ω/mile	@ 200°C Ω/mile									
0.08086	0.08476	0.13476	0.14122	0.03858	0.39496	0.09038	1072	1325	1856	1959	26317	Pennell
0.08177	0.08557	0.13622	0.14276	0.03875	0.39444	0.09038	1067	1318	1846	1948	26316	McHenrys
0.08284	0.08653	0.13790	0.14453	0.03891	0.39393	0.09038	1061	1310	1835	1936	26315	Echo
0.08398	0.08757	0.13974	0.14648	0.03909	0.39337	0.09038	1054	1302	1823	1923	26318	Meridian
0.08522	0.08871	0.14172	0.14856	0.03928	0.39280	0.09038	1047	1293	1810	1910	29646	York
0.07441	0.07882	0.12445	0.13034	0.03879	0.39432	0.08974	1120	1385	1945	2053	40781	Hyndman
0.07501	0.07932	0.12539	0.13133	0.03892	0.39390	0.08974	1116	1380	1937	2046	48102	Cloudveil
0.07561	0.07981	0.12631	0.13231	0.03907	0.39345	0.08974	1112	1376	1930	2038	44809	OakBrook
0.07633	0.08041	0.12744	0.13351	0.03921	0.39302	0.08974	1108	1370	1922	2029	50524	Nebo
0.07128	0.07559	0.11924	0.12487	0.04010	0.39027	0.08891	1152	1426	2004	2117	26444	Sox
0.07191	0.07529	0.11981	0.12555	0.04024	0.38985	0.08891	1152	1425	2000	2111	26520	BeaverCreek
0.07259	0.07667	0.12128	0.12704	0.04040	0.38939	0.08891	1143	1415	1987	2099	26446	Bear
0.07412	0.07797	0.12370	0.12960	0.04071	0.38844	0.08891	1133	1402	1968	2078	26448	Hunter
0.06734	0.07157	0.11277	0.11809	0.04172	0.38549	0.08789	1195	1481	2084	2201	26412	Saddle
0.06797	0.07208	0.11374	0.11912	0.04187	0.38504	0.08789	1191	1475	2075	2192	26415	Breckenridge
0.06872	0.07271	0.11490	0.12035	0.04202	0.38460	0.08789	1185	1468	2064	2180	26416	Bona
0.06951	0.07338	0.11613	0.12165	0.04219	0.38413	0.08789	1179	1460	2053	2169	50526	Whitney
0.07035	0.07411	0.11745	0.12304	0.04236	0.38363	0.08789	1173	1453	2042	2156	50527	Walter
0.06425	0.06880	0.10786	0.11290	0.04203	0.38459	0.08744	1225	1519	2141	2262	49332	Cyclone
0.06463	0.06906	0.10840	0.11348	0.04216	0.38421	0.08744	1223	1516	2136	2257	50537	Copper
0.06518	0.06949	0.10926	0.11440	0.04231	0.38378	0.08744	1218	1510	2127	2248	29633	KeyStone
0.06072	0.06542	0.10216	0.10690	0.04310	0.38153	0.08665	1266	1572	2219	2345	34705	Harvard
0.06118	0.06575	0.10286	0.10765	0.04323	0.38116	0.08665	1263	1567	2211	2337	29692	Elysium
0.06167	0.06612	0.10357	0.10840	0.04337	0.38076	0.08665	1259	1562	2204	2329	48090	Bigelow
0.06220	0.06652	0.10437	0.10926	0.04352	0.38034	0.08665	1255	1556	2195	2320	48089	BlackStar
0.06268	0.06688	0.10507	0.11000	0.04367	0.37993	0.08665	1251	1552	2188	2312	50536	Camelback
0.05947	0.06402	0.10004	0.10469	0.04407	0.37884	0.08615	1286	1596	2254	2383	29558	Basin
0.05943	0.06387	0.09989	0.10454	0.04421	0.37843	0.08615	1287	1598	2256	2385	50542	BlancaPeak
0.06000	0.06430	0.10076	0.10546	0.04436	0.37803	0.08615	1282	1591	2246	2374	50544	BearDown
0.05551	0.06058	0.09384	0.09814	0.04462	0.37733	0.08548	1332	1656	2344	2479	26007	Tyndall
0.05587	0.06082	0.09433	0.09866	0.04474	0.37699	0.08548	1329	1652	2338	2473	26001	Langley
0.05625	0.06107	0.09492	0.09929	0.04487	0.37665	0.08548	1326	1647	2331	2465	26002	Pyramid
0.05667	0.06136	0.09552	0.09993	0.04501	0.37627	0.08548	1322	1643	2324	2457	31701	Kennedy
0.05711	0.06167	0.09617	0.10063	0.04515	0.37588	0.08548	1318	1638	2316	2449	26003	Turret
0.05521	0.05954	0.09293	0.09724	0.04664	0.37194	0.08476	1350	1678	2374	2511	29575	Bersfort
0.05348	0.05835	0.09040	0.09454	0.04617	0.37317	0.08467	1367	1700	2409	2549	29734	Lucania
0.05388	0.05862	0.09095	0.09513	0.04632	0.37279	0.08467	1364	1696	2402	2541	29735	SaintElias
0.05433	0.05894	0.09165	0.09587	0.04646	0.37242	0.08467	1359	1690	2393	2531	29736	Peak
0.05482	0.05929	0.09237	0.09664	0.04661	0.37202	0.08467	1355	1684	2384	2521	29737	Turtle
0.05534	0.05968	0.09313	0.09745	0.04677	0.37161	0.08467	1350	1678	2374	2510	29738	Loon
0.05213	0.05742	0.08842	0.09242	0.04592	0.37384	0.08459	1381	1718	2439	2580	50530	BlackElk
0.05245	0.05760	0.08888	0.09292	0.04604	0.37352	0.08459	1378	1715	2432	2573	50531	WildPeak
0.05279	0.05781	0.08934	0.09341	0.04617	0.37319	0.08459	1375	1711	2426	2567	50359	Vail
0.05315	0.05805	0.08986	0.09396	0.04630	0.37284	0.08459	1372	1706	2419	2559	50360	Palisade
0.05354	0.05831	0.09043	0.09457	0.04644	0.37246	0.08459	1368	1702	2411	2551	50355	Bryce

continued



TS Conductors (AECC) – Conductor Specifications (cont.)

Specifications – Dimensions

The table below includes conductor size (kcmil), dimensions and geometry of aluminum strands. Due to space constraints, resistance, GMR, reactance, ampacity, spec ID and code word are included in the table on the following page.

Code Word	Conductor Size (kcmil)	Comparable Substitution ACSR Conductor	Diameter			Geometry		Unit Weight (lbs/ft)	RBS (lbs)
		Code Word	Ice Thickness (in.)	Core (mm)	Total (in.)	No. of Al Layers ²	No. of Al Strands		
Bierstadt	1687	Martin	1.25	11.0	1.408	3	28	1.69589	70110
Onyx	1779	Martin	0.50	9.5	1.427	4	48	1.75467	55700
Jewel	1767	Martin	0.75	10.0	1.427	4	48	1.75208	60400
Handies	1752	Martin	1.00	10.5	1.427	4	48	1.74748	65300
Andes	1738	Martin	1.25	11.0	1.427	4	48	1.74289	70430
Sunlight	1722	Martin	1.50	11.5	1.427	3	28	1.73865	75820
Livermore	1976	Lapwing	0.75	10.0	1.504	4	48	1.95208	61740
TaumSauk	1962	Lapwing	1.00	10.5	1.504	4	48	1.94748	66640
Shasta	1947	Lapwing	1.25	11.0	1.504	4	48	1.94289	71780
Oxford	1932	Lapwing	1.50	11.5	1.504	4	48	1.93865	77170
TempeButte	1978	Falcon	1.25	11.0	1.515	4	48	1.97189	71970
Crestone	2105	Falcon	0.50	9.5	1.545	4	48	2.06467	57790
Williamson	2093	Falcon	0.75	10.0	1.545	4	48	2.06208	62490
BlackHawk	2079	Falcon	1.00	10.5	1.545	4	48	2.05748	67390
Grays	2064	Falcon	1.25	11.0	1.545	4	48	2.05289	72520
Evans	2048	Falcon	1.50	11.5	1.545	4	48	2.04865	77910
Roger	2272	Chukar	0.50	9.5	1.602	4	48	2.23067	58860
Titan	2259	Chukar	0.75	10.0	1.602	4	48	2.22808	63560
Belukha	2245	Chukar	1.00	10.5	1.602	4	48	2.22348	68460
Bespin	2230	Chukar	1.25	11.0	1.602	4	48	2.20989	73590
Bull	2215	Chukar	1.50	11.5	1.602	4	48	2.20665	78980
Scafell	2516	Roadrunner	1.50	11.5	1.700	4	48	2.49965	80910
Killdeer	2610	Bluebird	1.50	10.5	1.720	4	52	2.56948	70790
Wood	2773	Bluebird	0.50	9.5	1.762	4	48	2.70567	62070
Mammoth	2760	Bluebird	0.75	10.0	1.762	4	48	2.70208	66770
Blackburn	2746	Bluebird	1.00	10.5	1.762	4	48	2.69848	71660
Pico	2731	Bluebird	1.25	11.0	1.762	4	48	2.69289	76800
Sanford	2715	Bluebird	1.50	11.5	1.762	4	52	2.68865	82190
Sawtooth	2859	Thrasher	1.50	12.0	1.802	4	52	2.83540	88840
Arvon	3099	Joree	1.50	12.0	1.880	4	52	3.06340	90380

continued

TS Conductors (AECC) – Conductor Specifications (cont.)

Specifications – Dimensions

The table below includes resistance, GMR, reactance, ampacity, spec ID and code word. For conductor size (kcmil), dimensions and geometry of aluminum strands refer to table on the previous page.

Resistance				GMR (ft)	Reactance @ 1 ft Spacing 60 Hz		Ampacity				Spec ID	Code Word
DC @ 20° CΩ/mile	AC-60 Hz				Inductive X _a Ω/mile	Capacitive X' _a MΩ-mile	@ 75°C amp	@ 100°C amp	@ 180°C amp	@ 200°C amp		
	@ 25°C Ω/mile	@ 180°C Ω/mile	@ 200°C Ω/mile									
0.05264	0.05724	0.08886	0.09294	0.04743	0.36992	0.08412	1387	1725	2445	2586	26516	Bierstadt
0.04996	0.05507	0.08477	0.0886	0.04759	0.36949	0.08372	1421	1770	2514	2661	50343	Onyx
0.0503	0.05528	0.08526	0.08913	0.04773	0.36914	0.08372	1418	1765	2507	2653	31697	Jewel
0.0507	0.05554	0.08583	0.08974	0.04787	0.36879	0.08372	1414	1760	2498	2644	50532	Handies
0.05113	0.05582	0.08645	0.0904	0.04802	0.36841	0.08372	1410	1755	2489	2634	29556	Andes
0.05158	0.05614	0.08711	0.09111	0.04818	0.36802	0.08372	1405	1749	2480	2624	50533	Sunlight
0.04503	0.05043	0.07687	0.08029	0.05016	0.36312	0.08216	1509	1883	2685	2844	26473	Livermore
0.04535	0.05061	0.0773	0.08075	0.05029	0.3628	0.08216	1506	1879	2678	2836	40780	TaumSauk
0.04569	0.0508	0.0778	0.08129	0.05044	0.36245	0.08216	1502	1874	2669	2826	29693	Shasta
0.04605	0.05102	0.0783	0.08182	0.05059	0.3621	0.08216	1498	1868	2661	2817	26478	Oxford
0.04498	0.05015	0.07666	0.08008	0.05078	0.36163	0.08195	1515	1891	2695	2854	50331	TempeButte
0.0423	0.04806	0.07264	0.07582	0.05133	0.36033	0.08136	1560	1949	2786	2952	26017	Crestone
0.04254	0.04817	0.07294	0.07614	0.05146	0.36002	0.08136	1557	1946	2781	2946	26016	Williamson
0.04282	0.04831	0.07333	0.07656	0.05159	0.35972	0.08136	1554	1941	2773	2938	26015	BlackHawk
0.04313	0.04847	0.07374	0.077	0.05173	0.35939	0.08136	1551	1937	2766	2930	26018	Grays
0.04345	0.04865	0.07416	0.07746	0.05187	0.35905	0.08136	1547	1932	2758	2921	26019	Evans
0.03935	0.04543	0.06806	0.07098	0.05314	0.35613	0.08029	1623	2031	2913	3088	26376	Roger
0.03956	0.04551	0.0683	0.07124	0.05326	0.35584	0.08029	1621	2028	2908	3083	26374	Titan
0.03981	0.04561	0.06861	0.07158	0.05339	0.35556	0.08029	1618	2024	2901	3075	31696	Belukha
0.03991	0.04558	0.06871	0.07169	0.05352	0.35525	0.08029	1618	2024	2899	3073	31695	Bespin
0.04019	0.04571	0.06905	0.07207	0.05366	0.35493	0.08029	1615	2020	2892	3065	26378	Bull
0.03553	0.04162	0.06186	0.06448	0.05675	0.34814	0.07853	1725	2164	3115	3305	48113	Scafell
0.03426	0.04075	0.06006	0.06256	0.05712	0.34736	0.07818	1752	2200	3173	3368	29561	Killdeer
0.03227	0.03926	0.05721	0.05953	0.05822	0.34504	0.07747	1801	2264	3277	3481	29641	Wood
0.03241	0.03928	0.05732	0.05965	0.05834	0.3448	0.07747	1800	2263	3274	3477	25938	Mammoth
0.03257	0.0393	0.0575	0.05985	0.05845	0.34456	0.07747	1798	2260	3269	3472	25930	Blackburn
0.03274	0.03934	0.05769	0.06006	0.05858	0.3443	0.07747	1796	2258	3264	3465	25929	Pico
0.03293	0.03938	0.05789	0.06028	0.05871	0.34403	0.07747	1795	2255	3258	3459	25928	Sanford
0.03127	0.03785	0.0553	0.05756	0.0601	0.34118	0.0768	1844	2319	3358	3567	46916	Sawtooth
0.02886	0.03585	0.05172	0.05377	0.06257	0.3363	0.07554	1921	2422	3521	3743	32696	Arvon

Installation Instructions

for AFL Compression Dead End Installed on TS HTLS Conductor



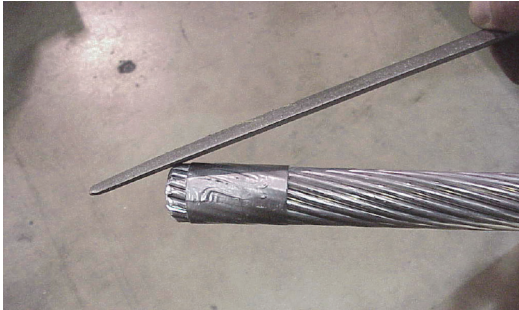
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Preparation

Prior to making connections, the conductor and accessory bore must be clean. Clean conductor strands thoroughly with wire brush or abrasive cloth. **(Wire brush "new" conductor also.)** Check accessory bore for foreign particles, removing if present.

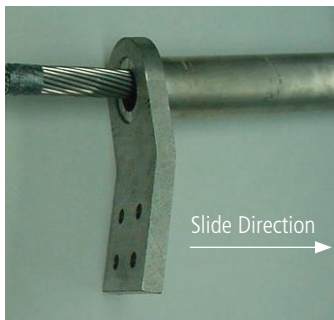
Serve the conductor, prior to cutting, with tape to help maintain the round contour making it easier to slide the end through the aluminum dead end.



Straighten several feet of the conductor removing the set caused by the reel.

Assembly

Dead End Assemblies consist of an Aluminum Body and Steel Eye Forging. A 15 degree jumper terminal is typically also included as part of the complete dead end assembly.



Slide aluminum dead end body (barrel first) over the conductor until sufficient working length protrudes from tongue end.

Suggested Method of Cutting Back Aluminum Strands

1. Tape location where "cutting back" is needed.
2. Position RIGID cable trimmer around conductor at the tape location.
3. Cut outer aluminum strands by rotating tool until layer becomes loose.
4. Remove cut outer aluminum layer strand.
5. Bend inner layer wires back and forth until they fracture.
6. Remove the broken wires.



Eye Assembly Installation onto Core/Encapsulation

Remove prescribed amount of aluminum stranding from core/encapsulation (see Table 1 below for the total amount to expose). Ensure the core and encapsulation are not damaged when cutting the inner aluminum strands. This can be achieved by lightly scoring the strands then bending the inner strands back and forth to remove.

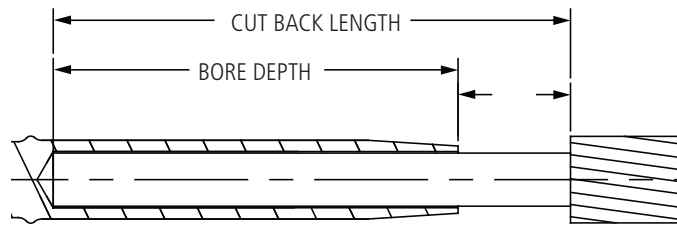


Table 1—Length of Exposed Core for Dead Ends and Splices

AFL SH DIE SIZE	TOTAL EXPOSED CORE/ENCAPSULATION LENGTH (INCH)	TOTAL EXPOSED CORE/ENCAPSULATION LENGTH (MM)
14SH, 16SH, 18SH, 20SH	7.0	180
24SH	13.5	343

Select die size for compressing steel barrel. The die size on die and die size marked on steel barrel must be the same.

NOTE: 100-ton dies are required when compressing TS Accessories.

Lubricate barrel with “Accu-Lube” or similar lubricant, or cover it with the plastic accessory shipping wrapper to ensure a straight compression barrel.

Using the proper SH die set, compress the steel barrel into span direction making initial compression adjacent to corrugation closest to barrel. Overlap each successive compression by at least ¼ inch (6.4 mm) making sure not to rotate the press head or steel sleeve. Complete die closure is required on all compressions, pressing the whole steel barrel all the way to the end.



Suggested Arrangement of Compressor and Accessory During Field Installation of Dead End

The photo at right illustrates a setup, which works well to ensure a straight compression and easy maneuverability of the compressor. The conductor has been “tied off” to the tower with a sling and chain wench. The compressor is then attached to the sling by a large shackle (The compressor is suspended upside down). The accessory and cable are tied to the sling ensuring all parts are straight and in-line. The compressor can easily be slid along to each successive compression.

Remove tape from ends of aluminum strands and slide aluminum dead end body over steel forging until tongue butts solidly against felt washer and shoulder of steel forging. Align eye with tongue of dead end to ensure proper positioning when dead end is fastened to insulator hardware.



Filler Compound Information

Filler Compound does four things:

1. Protects the compressed barrels from corrosion. The filler compound acts as a barrier to moisture.
2. Contains aluminum particles, which clean the strands (removing oxides) while compressing. Compressing forces the compounds within the strands.
3. Blocks moisture, which can wick up through the strands. Compressing forces the compound throughout the conductor strands.
4. Aids in the holding strength of the accessory.

Note: Main reason for accessory failure is inadequate amount of filler compound in the accessory.

Inject AFL Filler Compound, AFCHT or HiTUC into filler hole until compound emerges at the felt washer. Insert and drive filler plug into hole and peen edge of hole over top surface of plug.

Select AFL die size to compress aluminum dead end body. Die size for aluminum dead end body and die size marked on the die must be the same. AFL dies are to be used in compressing AFL accessories.

The dead end will bow during compression unless reasonable care is taken to have about 15 ft.(4.5 m) of the conductor supported straight out from the end of the dead end.



Lubricate area to be compressed from "Start" knurl to "Stop" knurl as illustrated.

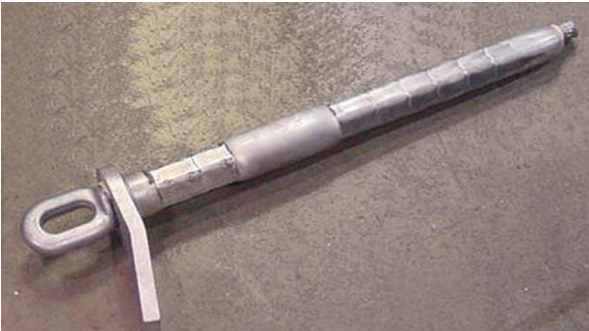


Make initial compression on the dead end body over the steel shank beginning at the start knurl nearest the dead end tongue. Continue making compressions to the stop knurl, **overlapping the previous compression by approximately .50 inch (1.27 cm). Complete die closure is required for each compression.**

Press the dead end body over the conductor. Lubricate area to be compressed from "Start" knurl to end of barrel. Make the initial compression at the start knurl. Continue making compressions to the end of the dead end body, **overlapping the previous compression by approximately .50 inches (1.27 cm). Complete die closure is required for each compression.**



Filler Compound must be injected into the accessory per manufacturer's specified amount as shown on the accessory's sales files, and must be visible at end of the barrel during the final compressions.



Compressed portion of the dead end should have a smooth uniform appearance. Remove flash, if present, with file or emery cloth.

Installation of Terminal Connector

Terminal assemblies consist of Terminal Connector and attachment hardware.

See "Preparation" on page 2, for notes on preparation of conductor.

Insert conductor full depth into terminal bore and mark the conductor at end of barrel. Remove conductor after marking.

Inject sufficient filler compound in the end of the terminal bore per manufacturer's specified amount as shown on the accessory's sales files (see photo), and on the conductor so that excess compound is visible at terminal end when barrel is completely compressed.

Insert conductor end into terminal barrel to the mark on the conductor.

Select die size to compress Terminal Connector. Die size for Terminal Connector and die size marked on the die must be the same.



Press the Terminal Connector over the conductor. Make the initial compression at the start knurl. Continue making compressions to the end of the Terminal Connector barrel, **overlapping the previous compression by approximately .50 inches (1.27 cm).** Complete die closure is required for each compression.



Filler Compound should be visible at end of the barrel during the final compressions (if adequate amount has been pumped in). Compressed portion of the Terminal Connector should have a smooth uniform appearance. Remove flash, if present, with file or emery cloth. Clean contact surface of Terminal Connector and Dead End pad.



Coat surfaces with AFL Alnox or HiTUC Compound. Then wire brush through compound. Do not remove coating.

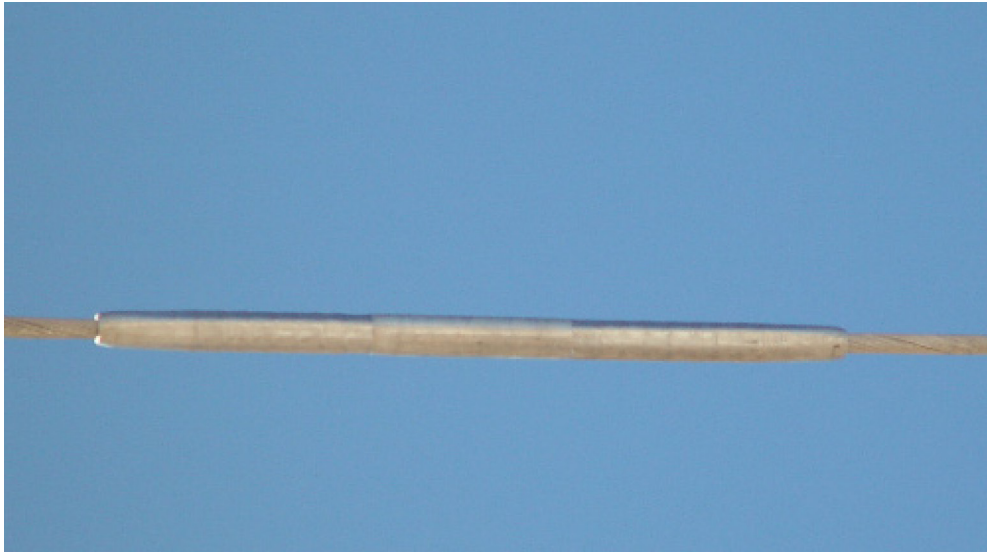
Bolt Terminal Connector to Dead End pad. Partially tighten all bolts and then re-tighten each bolt to recommended torque.
Aluminum Bolts: (1/2" bolts – 25 lbf-ft (34 N.m); 5/8" bolts – 40 lbf-ft (54 N.m).

CAUTION: Follow installation instructions carefully. Improper installation can result in mechanical failure of the cable system and possible injury to persons handling or in the vicinity of the cable systems.

Installation Instructions

for AFL Compression Joint

Installed on TS HTLS Conductor



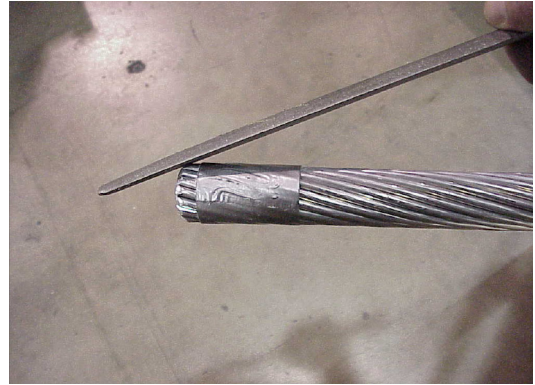
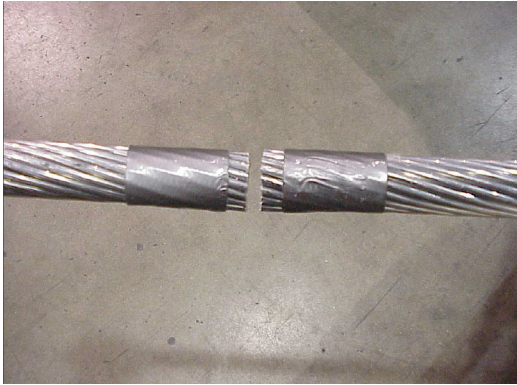
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Preparation

Prior to making connections, the conductor and accessory bore must be clean. Clean conductor strands thoroughly with wire brush or abrasive cloth. **(Wire brush "new" conductor also.)** Check accessory bore for foreign particles, removing if present.

Serve the conductor, prior to cutting, with tape to help maintain the round contour. File a chamfer on the end of the conductor. (The larger the chamfer, the easier the conductor will slide through the joint).



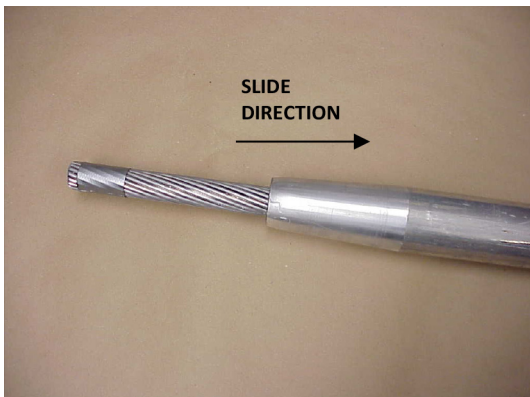
Straighten several feet of the conductor removing the set caused by the reel.

Assembly

Joint Assemblies consist of an Aluminum Body and steel sleeve. The assembly may also contain body filler sleeves.

Installation

Measure back from each conductor and mark at a distance equal to 1/2 the length of the aluminum Joint.



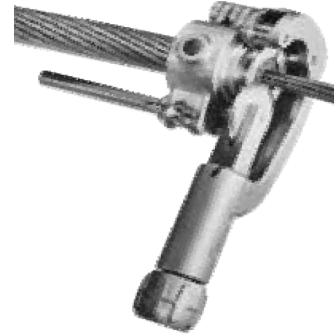
Slide aluminum body over the conductor and beyond mark until sufficient working length protrudes from barrel end. Straightening the conductor as much as possible will also aid in this installation step.



NOTE: If the splice body uses filler sleeves, mark the conductor past half of the splice body at a distance equal to the filler sleeve protrusion.

Suggested method of cutting back aluminum strands

1. Tape location where "cutting back" is needed.
2. Position RIDGID cable trimmer around conductor at the tape location.
3. Cut outer aluminum strands by rotating tool until layer becomes loose.
4. Remove cut outer aluminum layer strand.
5. Bend inner layer wires back and forth until they fracture.
6. Remove the broken wires.



Steel Sleeve Assembly Installation onto Core/Encapsulation

Remove prescribed amount of aluminum stranding from core/encapsulation(see Table 1 below for the total amount to expose). Ensure the core and encapsulation are not damaged when cutting the inner aluminum strands. This can be achieved by lightly scoring the strands then bending the inner strands back and forth to remove.

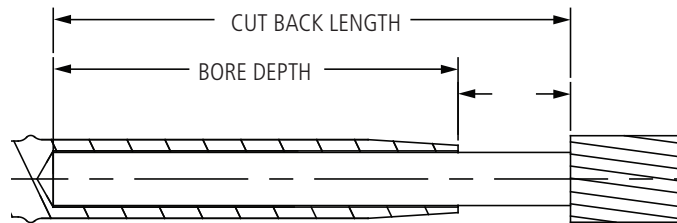


Table 1—Length of Exposed Core for Dead Ends and Splices

AFL SH DIE SIZE	TOTAL EXPOSED CORE/ENCAPSULATION LENGTH (INCH)	TOTAL EXPOSED CORE/ENCAPSULATION LENGTH (MM)
14SH, 16SH, 18SH, 20SH	7.0	180
24SH	13.5	343

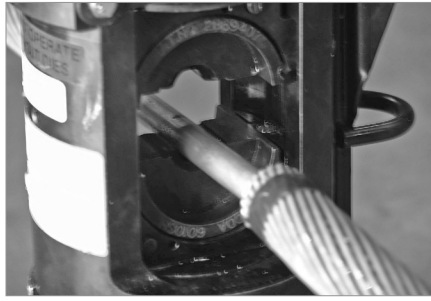
Select die size for compressing steel barrel. The die size on die and die size marked on steel barrel must be the same.

NOTE: 100-ton dies are required when compressing TS Accessories.

Lubricate barrel with "Accu-Lube" or similar lubricant, or cover it with the plastic accessory shipping wrapper to ensure a straight compression barrel.

Using the proper SH die set, compress steel sleeve full length making initial compression over center of sleeve. Press one side completely into the span direction, then go back and repeat process on other side. Overlap each successive compression by at least ¼ inch (6.4 mm) making sure not to rotate the press head or steel sleeve. Complete die closure is required on all compressions, pressing each end of the steel sleeve all the way to each end. Please see three steel sleeve compression photos on following page.

Steel Sleeve Compression



Aluminum Body Compressing

Suggested Arrangement of Compressor and Accessory during Field Installation of Joint

The photo in Setup 1 illustrates setups, which works well to ensure a straight compression and easy maneuverability of the compressor. The photo in Setup 2 shows the conductor has been "tied off" (tensioned with slings and chain hoist) to slacken the conductor at point of installation.



Setup 1

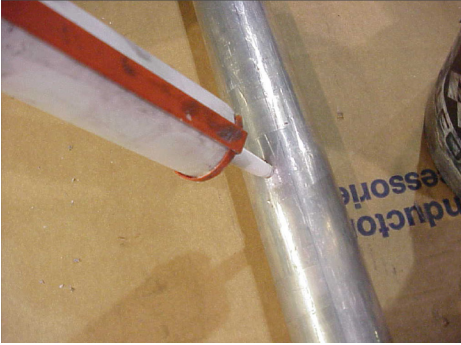
The compressor is attached to the sling by a large shackle (the compressor is suspended upside down). The accessory and cable are tied to the sling ensuring all parts are straight and inline. The compressor can easily be slid along to each successive compression.



Setup 2

The compressor sits on a board, which sets on the rails of the high lift. The board and compressor can be slid along to each successive compression. The accessory and cable must be supported and all parts must be straight and inline or bowing will occur.

Remove tape from ends of aluminum strands and slide aluminum joint over steel sleeve until end of barrel aligns with marks placed on the conductors. This should center the outer aluminum sleeve over the inner sleeve.



Inject AFL Filler Compound, AFCHT or HiTuc, into filler hole. AFL will specify amount needed base on accessory being used – no less than 1.5 tubes are required per joint body. Insert compound, then drive filler plug into hole and peen edge of hole over top surface of plug.

Filler Compound Information

Filler Compound does four things:

1. Protects the compressed barrels from corrosion. The filler compound acts as a barrier to moisture.
2. Contains aluminum particles, which clean the strands (removing oxides) while compressing. Compressing forces the compounds within the strands.
3. Blocks moisture, which can wick up through the strands. Compressing forces the compound throughout the conductor strands.
4. Aids in the holding strength of the accessory.

Note: Main reason for accessory failure is inadequate amount of filler compound in the accessory.

Select AFL die size to compress aluminum splice body. Die size for aluminum splice body and die size marked on the die must be the same. AFL dies are to be used in compressing AFL accessories.

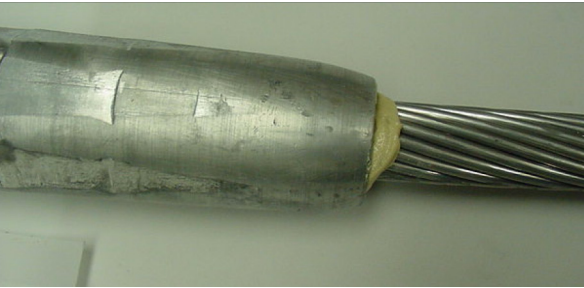
The Joint will bow during compression unless reasonable care is taken to have about 15 ft. (4.5 m) of the conductor supported straight out from the ends of the Joint.



Lubricate area to be compressed from "Start" knurl to end of barrel as illustrated. Lubricate both ends of Joint.



Make initial compression on either side of Joint starting at the "Start" knurl. Make the second compression on the opposite end of the joint at the other "Start" knurl. Continue making compressions to the end of the joint. **Overlap each successive compression by approximately 0.50 inch (1.27 cm). Do not "skip bite." Complete die closure is required for each compression.** Go back and complete the compressions on the opposite end. The center portion of the Joint is not compressed.



Filler Compound should be visible at end of the barrel during the final compressions (if adequate amount has been pumped in).



Compressed portion of the dead end should have a smooth uniform appearance. Remove flash, if present, with file or emery cloth.

CAUTION: Follow Installation Instructions carefully. Improper installation can result in mechanical failure of the cable system and possible injury to persons handling or in the vicinity of the cable system.

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**FIBER OPTIC CABLE
(OPGW, ADSS, Loose Tube)**



**FIBER OPTIC CABLE
ACCESSORIES**



**SUBSTATION AND
NETWORK UNDERGROUND**



