

RUS Approved

Longspan Tie

MATERIALS

Tie - Aluminum alloy for aluminum based conductor.

Center section - Specially formulated elastomer.

Identification tag - Identifies catalog number, neck size, nominal conductor size and conductor range.

Color code - Identifies proper conductor range.

Insulator identification mark (identifies insulator head size)

Black -C Neck

Yellow -F Neck

Green -J Neck



General Recommendations

To insure proper fit and service life, it is recommended that only insulators corresponding to C Neck, F Neck, or J Neck be used as specified by ANSI C29.5. The top groove radius, neck size, and groove height relationship corresponding to each neck size are shown at the beginning of each listing.

Longspan Ties are recommended as an improvement over Armor Rods secured with hand tie wire. For areas subject to both wind sway and vibration, Longspan Ties provide superior abrasion protection and are superior to a well made hand tie - Armor Rod combination in regard to conductor fatigue.

Longspan Tie Pad

The pad component is recommended for bare conductor because it prevents contact with the insulator and compensates for insulator misalignment. With the pad, Longspan Ties not only replace armoring products, but provide superior protection by eliminating abrasion rather than sacrificing outside surfaces to abrasion.

Maximum Size

Longspan Ties are available for conductors up to 1.240" O. D. depending on the insulators top groove radius.

Line Angle

On vertically mounted insulators, Longspan Ties are recommended for running line angles of up to 10 degrees. Larger angles can be turned when Longspan Ties are used with Side Ties or with pins and brackets having various degrees of cant.

Unbalanced Loading

Under unbalanced load conditions, the Longspan Tie has the resiliency to permit some longitudinal displacement of the conductor over the insulator without loosening the tie or damaging the conductor.

Radio Interference

The RIV characteristics of Longspan Ties are superior to those of well made hand ties when originally installed. During service-life, the pre-contoured helix assures consistent fit which has better RIV characteristics than loosened tie-wire.

Tapping

Tapping over applied legs of the Longspan Tie is not recommended. Taps should be located at least 6 inches from the end of the legs.

Double Supports

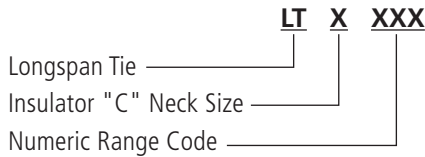
At double crossarms, double Support Ties can be used to cross major highways and railroads, or turn angles where it is practical to hold the conductor in the top groove during installation.

Longspan Tie

C Neck

ACSR, All-Aluminum, Aluminum Alloy, AWAC, Compacted All-Aluminum, Compacted ACSR

Selection Information



2-1/4" Neck Diameter ANSI Class 55-2 and 55-3 / Groove Height Relationship 9/16" Min. 7/8" Max.

Insulator Identification Mark: Black

AFL NO.	DIA. RANGE INCHES	NOMINAL CONDUCTOR SIZE	UNITS PER CARTON	WT. PER CARTON POUNDS	APPLIED LENGTH INCHES	COLOR CODE
LTC 063	.248-.259	#4, 6/1-7/1 #4, 7W, Aluminum Alloy	100	21	19	Orange
LTC 066	.260-.269	#4, AWAC, 5/2 #3, 7W, All-Aluminum #2, 7W Compacted	100	21	19	Green
LTC 068	.270-.280	#3, 7W, Aluminum Alloy #3, AWAC, 6/1	100	21	19	Yellow
LTC 071	.281-.291	#4, AWAC, 4/3 #3, 6/1 #2, 6/1, Compacted	100	24	20.5	White
LTC 074	.292-.303	#3, AWAC, 5/2 #2, 7W, All Aluminum #2, 7/1 Compacted	100	24	20.5	Purple
LTC 077	.304-.314	#4, AWAC, 3/4 #2, AWAC, 6/1	100	24	21.5	Brown
LTC 080	.315-.327	#2, 6/1-7/1 #2, 7W, Aluminum Alloy	100	24	21.5	Red
LTC 083	.328-.340	#2, AWAC, 5/2 #1, 7W, All Aluminum 1/0, 7W COMP	100	25	22.5	Blue
LTC 086	.341-.353	#3, AWAC, 3/4 #1, 7W, Aluminum Alloy	100	25	22.5	Orange
LTC 090	.354-.367	#2, AWAC, 4/3 #1, 6/1 1/0, 6/1, COMP,	100	26	23.5	Green
LTC 093	.368-.381	1/0, 7W, All Aluminum 2/0, 7W, Compacted	100	26	20	Black
LTC 097	.382-.394	#2, AWAC, 3/4 1/0, AWAC, 6/1	100	27	21	White
LTC 100	.395-.411	1/0, 6/1 1/0, 7W, Aluminum Alloy	100	27	21	Yellow
LTC 104	.412-.437	2/0, 7W-19W, All Aluminum 3/0, 7W-19W, COMP	100	27	22	Brown
LTC 111	.438-.463	2/0, 6/1-7/1 2/0, 7W, Aluminum Alloy	100	28	23	Blue
LTC 118	.464-.492	3/0, 7W-19W, All Aluminum 4/0, 7W-19W, COMP	50	18	24.5	Green

continued on next page

Longspan Tie

C Neck

ACSR, All-Aluminum, Aluminum Alloy, AWAC, Compacted All-Aluminum, Compacted ACSR

Selection Information

AFL NO.	DIA. RANGE INCHES	NOMINAL CONDUCTOR SIZE	UNITS PER CARTON	WT. PER CARTON POUNDS	APPLIED LENGTH INCHES	COLOR CODE
LTC 125	.493-.522	3/0, 6/1 3/0, 7W, Aluminum Alloy 4/0, 7W, All Aluminum	50	18	24.5	Orange
LTC 133	.523-.554	3/0, AWAC. 5/2 4/0, 19W, All Aluminum 266.8, 7W-19W, COMP	50	18	26.5	Black
LTC 141	.555-.594	4/0, 6/1 4/0, 7W, Aluminum Alloy 266.8, 7W- 19W, All Alum	50	19	27.5	Red
LTC 151	.595-.630	266.8, 18/1 300, 19W-37W, All Aluminum	50	21	28.5	Purple
LTC 160	.631-.664	266.8, 26/7 266.8, 19W, Aluminum Alloy	50	21	28.5	Yellow
LTC 169	.665-.705	336.4, 18/1-36/1 336.4, 19W, All Aluminum 350, 19W-37W, All Aluminum	50	21	29.5	Brown
LTC 179	.706-.747	336.4, 26/7-30/7 397.5, 19W, All Aluminum	50	22	30.5	Green
LTC 190	.748-.795	397.5, 24/7-26/7 397.5, 19W, Aluminum Alloy 477, 19W-37W, All Aluminum	50	18	33	Orange
LTC 202	.796-.846	477, 18/1, 36/1 500, 19W, All Aluminum	50	20	37	Purple
LTC 215	.847-.900	556.5, 18/1, 36/1 556.5, 19W, 37W, All Aluminum	50	21	39	Blue
LTC 229	.901-.958	636, 18/1, 36/1 636, 37W, All Aluminum 556.5M, 19W, Aluminum Alloy	50	21	41	Green
LTC 243	.959-1.018	666.6, 24/7, 54/7 750, 37W, All Aluminum 636, 37W, Aluminum Alloy	50	22	43	White
LTC 259	1.019-1.083	795, 36/1, 45/7 795, 37W, All Aluminum	50	23	45	Brown
LTC 275	1.084-1.151	954, 36/1 954, 37W, All Aluminum 795, 37W, Aluminum Alloy	50	24	47	Orange
LTC 292	1.152-1.223	954, 45/7, 54/7 1033.5, 37W, All Aluminum 954, 37W, Aluminum Alloy	50	25	49	Purple
LTC 311	1.224- 1.240		50	27	59	Black

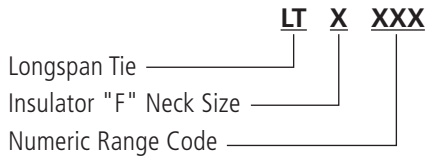
Right-Hand Lay Standard

Longspan Tie

F Neck

ACSR, All-Aluminum, Aluminum Alloy, AWAC, Compacted All-Aluminum, Compacted ACSR

Selection Information



2-7/3" Neck Diameter ANSI Class 55-4 and 55-5 Pin Type/57-1, 57-2 and 57-3 Post Type
 Groove Height Relationship 9/16" Min. 7/8" Max.

Insulator Identification Mark: Yellow

AFL NO.	DIA. RANGE INCHES	NOMINAL CONDUCTOR SIZE	UNITS PER CARTON	WT. PER CARTON POUNDS	APPLIED LENGTH INCHES	COLOR CODE
LTF 063	.248-.259	#4,6/1-7/1 #4, 7W Aluminum Alloy	100	24	20.75	Orange
LTF 066	.260-.269	#4, AWAC, 5/2 #3, 7W, All- Aluminum #2, 7W Compacted	100	24	20.75	Green
LTF 068	.270-.280	#3, 7W, Aluminum Alloy #3, AWAC, 6/1	100	24	20.75	Yellow
LTF 071	.281-.291	#4, AWAC, 4/3 #3, 6/1 #2, 6/1, Compacted	100	26	21.75	White
LTF 074	.292-.303	#3, AWAC, 5/2 #3, 7W, All Aluminum #2, 7/1 Compacted	100	26	21.75	Purple
LTF 077	.304-.314	#4, AWAC, 3/4 #2, AWAC, 6/1	100	27	22.75	Brown
LTF 080	.315-.327	#2, 6/1-7/1 #2, 7W, Aluminum Alloy	100	27	22.75	Red
LTF 083	.328-.340	#2, AWAC, 5/2 #1, 7W, All Aluminum 1/0, 7W COMP	100	27	23.75	Blue
LTF 086	.341-.353	#3, AWAC, 3/4 #1, 7W, Aluminum Alloy	100	27	23.75	Orange
LTF 090	.354-.367	#2, AWAC, 4/3 #1,6/1 1/0, 6/1, COMP,	100	28	24.75	Green
LTF 093	.368-.381	1/0, 7W, All Aluminum 2/0, 7W, Compacted	100	29	21.5	Black
LTF 097	.382-.394	#2, AWAC, 3/4 1/0, AWAC, 6/1	100	29	22.5	White
LTF 100	.395-.411	1/0, 6/1 1/0, 7W, Aluminum Alloy	100	29	22.5	Yellow
LTF 104	.412-.437	2/0, 7W-19W, All Aluminum 3/0, 7W-19W, COMP	100	30	23.5	Brown
LTF 111	.438-.463	2/0, 6/1-7/1 2/0, 7W, Aluminum Alloy	100	31	24.5	Blue
LTF 118	.464-.492	3/0, 7W-19W, All Aluminum 4/0, 7W-19W, COMP	50	20	25.5	Green

continued on next page

Longspan Tie

F Neck

ACSR, All-Aluminum, Aluminum Alloy, AWAC, Compacted All-Aluminum, Compacted ACSR

Selection Information

AFL NO.	DIA. RANGE INCHES	NOMINAL CONDUCTOR SIZE	UNITS PER CARTON	WT. PER CARTON POUNDS	APPLIED LENGTH INCHES	COLOR CODE
LTF 125	.493-.522	3/0, 6/1 3/0, 7W, Aluminum Alloy 4/0, 7W, All Aluminum	50	20	25.5	Orange
LTF 133	.523-.554	3/0, AWAC. 5/2 4/0, 19W, All Aluminum 4/0, 18/1 266.8, 7W-19W, COMP	50	20	25.5	Black
LTF 141	.555-.594	4/0, 6/1 4/0, 7W, Aluminum Alloy 266.8, 7W- 19W, All Alum	50	20	26.5	Red
LTF 151	.595-.630	266.8, 18/1 300, 19W-37W, All Aluminum	50	22	28	Purple
LTF 160	.631-.664	266.8, 26/7 266.8, 19W, Aluminum Alloy	50	22	29	Yellow
LTF 169	.665-.705	336.4, 18/1-36/1 336.4, 19W, All Aluminum 350, 19W-37W, All Aluminum	50	22	29	Brown
LTF 179	.706-.747	336.4, 26/7-30/7 397.5, 19W, All Aluminum	50	23	30	Green
LTF 190	.748-.795	397.5, 24/7-26/7 397.5, 19W, Aluminum Alloy 477, 19W-37W, All Aluminum	50	24	32.5	Orange
LTF 202	.796-.846	477, 18/1, 36/1 500, 19W, All Aluminum	50	20	37	Purple
LTF 215	.847-.900	556.5, 18/1, 36/1 556.5, 19W, 37W, All Aluminum	50	21	39	Blue
LTF 229	.901 -.958	636, 18/1,36/1 636, 37W, All Aluminum 556.5M, 19W, Aluminum Alloy	50	22	41	Green
LTF 243	.959-1.018	666.6, 24/7, 54/7 750, 37W, All Aluminum 636, 37W, Aluminum Alloy	50	22	43	White
LTF 259	1.019-1.083	795, 36/1.45/7 795, 37W, All Aluminum	50	23	45	Brown
LTF 275	1.084-1.151	954,36/1 954, 37W, All Aluminum 795, 37W, Aluminum Alloy	50	24	47	Orange
LTF 292	1.152-1.223	954, 45/7, 54/7 1033.5, 37W, All Aluminum 954, 37W, Aluminum Alloy	50	25	49	Purple
LTF 311	1.224- 1.240		50	29	59	Black

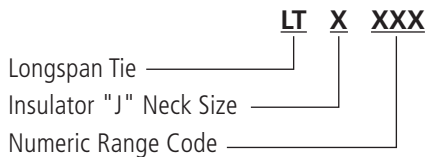
Right-Hand Lay Standard

Longspan Tie

J Neck

ACSR, All-Aluminum, Aluminum Alloy, AWAC, Compacted All-Aluminum, Compacted ACSR

Selection Information



3-1/2" Neck Diameter ANSI Class 55-6 and 65-7 Single Skirt Pin / 56-1 Double Skirt Pin Type Groove Height Relationship 1/4" Min. 5/8" Max.

Insulator Identification Mark: Green

AFL NO.	DIA. RANGE INCHES	NOMINAL CONDUCTOR SIZE	UNITS PER CARTON	WT. PER CARTON POUNDS	APPLIED LENGTH INCHES	COLOR CODE
LTJ 063	.248-.259	#4,6/1-7/1 #4, 7W Aluminum Alloy	100	29	21	Orange
LTJ 066	.260-.269	#4, AWAC, 5/2 #3, 7W, All- Aluminum #2, 7W Compacted	100	29	21	Green
LTJ 068	.270-.280	#3, 7W, Aluminum Alloy #3, AWAC, 6/1	100	29	21	Yellow
LTJ 071	.281-.291	#4, AWAC, 4/3 #3, 6/1 #2, 6/1, Compacted	100	32	21	White
LTJ 074	.292-.303	#3, AWAC, 5/2 #2, 7W, All Aluminum #2, 7/1 Compacted	100	32	22	Purple
LTJ 077	.304-.314	#4, AWAC, 3/4 #2, AWAC, 6/1	100	33	22	Brown
LTJ 080	.315-.327	#2, 6/1-7/1 #2, 7W, Aluminum Alloy	100	33	23	Red
LTJ 083	.328-.340	#2, AWAC, 5/2 #1, 7W, All Aluminum 1/0, 7W COMP	100	33	23	Blue
LTJ 086	.341-.353	#3, AWAC, 3/4 #1, 7W, Aluminum Alloy	100	33	24	Orange
LTJ 090	.354-.367	#2, AWAC, 4/3 #1,6/1 1/0, 6/1, COMP,	100	33	24	Green
LTJ 093	.368-.381	1/0, 7W, All Aluminum 2/0, 7W, Compacted	100	33	25	Black
LTJ 097	.382-.394	#2, AWAC, 3/4 1/0, AWAC, 6/1	100	34	23	White
LTJ 100	.395-.411	1/0, 6/1 1/0, 7W, Aluminum Alloy	100	34	24	Yellow
LTJ 104	.412-.437	2/0, 7W-19W, All Aluminum 3/0, 7W-19W, COMP	100	35	25	Brown
LTJ 111	.438-.463	2/0, 6/1-7/1 2/0, 7W, Aluminum Alloy	100	35	26	Blue
LTJ 118	.464-.492	3/0, 7W-19W, All Aluminum 4/0, 7W-19W, COMP	50	21	28	Green

continued on next page

Longspan Tie

J Neck

ACSR, All-Aluminum, Aluminum Alloy, AWAC, Compacted All-Aluminum, Compacted ACSR

Selection Information

AFL NO.	DIA. RANGE INCHES	NOMINAL CONDUCTOR SIZE	UNITS PER CARTON	WT. PER CARTON POUNDS	APPLIED LENGTH INCHES	COLOR CODE
L TJ 125	.493-.522	3/0, 6/1 3/0, 7W, Aluminum Alloy 4/0, 7W, All Aluminum	50	21	28	Orange
L TJ 133	.523-.554	3/0, AWAC. 5/2 4/0, 19W, All Aluminum 4/0, 18/1 266.8, 7W-19W, COMP	50	21	28	Black
L TJ 141	.555-.594	4/0, 6/1 4/0, 7W, Aluminum Alloy 266.8, 7W-19W, All Alum	50	22	29	Red
L TJ 151	.595-.630	266.8, 18/1 300, 19W-37W, All Aluminum	50	24	30	Purple
L TJ 160	.631-.664	266.8, 26/7 266.8, 19W, Aluminum Alloy	50	24	31	Yellow
L TJ 169	.665-.705	336.4, 18/1-36/1 336.4, 19W, All Aluminum 350, 19W-37W, All Aluminum	50	24	31	Brown
L TJ 179	.706-.747	336.4, 26/7-30/7 397.5, 19W, All Aluminum	50	25	32	Green
L TJ 190	.748-.795	397.5, 24/7-26/7 397.5, 19W, Aluminum Alloy 477, 19W-37W, All Aluminum	50	26	34	Orange
L TJ 202	.796-.846	477, 18/1, 36/1 500, 19W, All Aluminum	50	21	39.5	Purple
L TJ 215	.847-.900	556.5, 18/1, 36/1 556.5, 19W, 37W, All Aluminum	50	22	41	Blue
L TJ 229	.901-.958	636, 18/1, 36/1 636, 37W, All Aluminum 556.5M, 19W, Aluminum Alloy	50	23	43	Green
L TJ 243	.959-1.018	666.6, 24/7, 54/7 750, 37W, All Aluminum 636, 37W, Aluminum Alloy	50	24	45	White
L TJ 259	1.019-1.083	795, 36/1.45/7 795, 37W, All Aluminum	50	24	47	Brown
L TJ 275	1.084-1.151	954, 36/1 954, 37W, All Aluminum 795, 37W, Aluminum Alloy	50	25	49	Orange
L TJ 292	1.152-1.223	954, 45/7, 54/7 1033.5, 37W, All Aluminum 954, 37W, Aluminum Alloy	50	26	51	Purple
L TJ 311	1.224-1.240		50	30	59.5	Black

Right-Hand Lay Standard