

RUS Approved

Distribution Tie



MATERIALS

Tie - Aluminum covered steel.

Pad - An elastomer tube is supplied with each Distribution Tie used on bare conductor, and they are identified by catalog number suffix P. Distribution Ties are supplied without pads for plastic jacketed conductor identified by catalog number suffix T.

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

Color code - There are two color codes on Distribution Ties. The inside color code identifies the proper conductor size and the outside color code identifies the insulator neck size as shown below:

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. The neck diameters and groove height dimensions appear in ANSI Standard for low and medium voltage pin type insulators and also at the beginning of each listing.

Distribution Ties are recommended as an improvement over Armor Rods secured with hand tie wire and clamp top insulators. When installed with a pad on bare conductor, they provide superior protection against abrasion and all types of conductor motion. The pad is a resilient cushion at the point of contact between conductor and insulator.

Distribution Ties without pads are intended for plastic jacketed conductor but may be used to replace hand tie wire in areas where abrasion damage has not been experienced.

Maximum Size

Conductor sizes up to 1.240" O.D. can be accommodated depending on the insulator top groove radius.

Line Angle

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

Unbalanced Loading

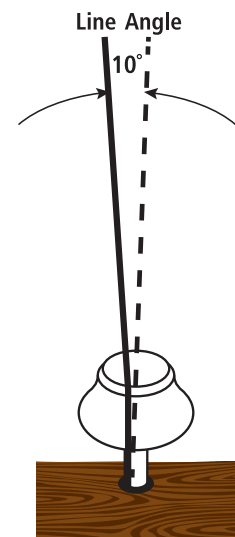
Under unbalanced load conditions, the Distribution Tie has the resiliency to permit some longitudinal displacement of the conductor over the insulator without loosening the tie or damaging the conductor.

Radio Interference

The RIV characteristics of Distribution 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 Distribution Tie is not recommended. Taps should be located at least 6 inches from the end of the legs.

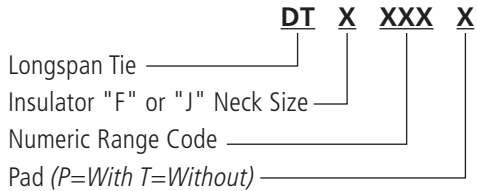


Distribution Tie

C Neck with Pad

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.

AFL NO.	DIA. RANGE INCHES	NOMINAL CONDUCTOR SIZE	UNITS PER CARTON	WT. PER CARTON POUNDS	APPLIED LENGTH INCHES	COLOR CODE
DTC 048P	.190-.215	#6, 6/1 #4, 7W, Compacted	100	17	24	Blue
DTC 055P	.216-.244	#4, 7W, All Aluminum #4, 6/1, 7/1 Compacted	100	18	25	Brown
DTC 062P	.245-.277	#4, 6/1, 7/1 #4, 7W, Aluminum Alloy	100	18	26	Orange
DTC 070P	.278-.315	#3, 7W, Aluminum Alloy #2, 7W, All Aluminum	100	18	26	Purple
DTC 080P	.316-.357	#2, 6/1, 7/1 #2, 7W, Aluminum Alloy #1, 6/1	100	19	28	Red
DTC 091P	.358-.405	1/0, 7W, All Aluminum 1/0, 6/1 1/0, 7W, Aluminum Alloy	100	20	30	Yellow
DTC 103P	.406-.459	2/0, 7W, All Aluminum 2/0, 6/1 2/0, 7W, Aluminum Alloy	50	17	25	Blue
DTC 117P	.460-.520	3/0, 7W, All Aluminum 3/0, 6/1 3/0, 7W, Aluminum Alloy	50	17	25	Orange
DTC 132P	.521-.588	4/0, 7W, All Aluminum 4/0, 6/1 4/0, 7W, Aluminum Alloy	50	18	28	Red
DTC 149P	.589-.665	266.8, 37W, All Aluminum 266.8, 18/1	50	18	30	Purple
DTC 169P	.666-.755	336.4, 19W, All Aluminum 336.4, 18/1 397.5, 19W, All Aluminum 400, 19W, 37W, All Aluminum	50	19	31	Brown
DTC 192P	.756-.855	477, 19W, 37W, All Aluminum 477, 18/1, 24/7	50	19	32	Red
DTC 217P	.856-.968	556.5, 24/7 636, 18/1 700, 37W, 61W, All Aluminum	50	20	34	Blue
DTC 246P	.969-1.096	795, 37W, All Aluminum 795, 61W, All Aluminum 715.5, 24/7 795, 54/7	50	21	37	Green
DTC 278P	1.097-1.240	954, 36/1, 54/7 1033.5, 37W 61W, All Aluminum	50	22	40	Yellow

Right-Hand Lay Standard

Note: For further information on how to order, see the Selection Information above.

Distribution Tie

F Neck with Pad

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

2-7/8" 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
DTF 048P	.190-.215	#6, 6/1 #4, 7W, Compacted	100	18	25	Blue
DTF 055P	.216-.244	#4, 7W, All Aluminum #4, 6/1, 7/1 Compacted	100	19	26	Brown
DTF 062P	.245-.277	#4, 6/1, 7/1 #4, 7W, Aluminum Alloy	100	19	27	Orange
DTF 070 P	.278-.315	#3, 7W, Aluminum Alloy #2, 7W, All Aluminum	100	20	29	Purple
DTF 080P	.316-.357	#2, 6/1, 7/1 #2, 7W, Aluminum Alloy #1, 6/1	100	20	31	Red
DTF 091P	.358-.405	1/0, 7W, All Aluminum 1/0, 6/1 1/0, 7W, Aluminum Alloy	100	21	32	Yellow
DTF 103P	.406-.459	2/0, 7W, All Aluminum 2/0, 6/1 2/0, 7W, Aluminum Alloy	50	18	26	Blue
DTF 117P	.460-.520	3/0, 7W, All Aluminum 3/0, 6/1 3/0, 7W, Aluminum Alloy	50	18	27	Orange
DTF 132P	.521-.588	4/0, 7W, All Aluminum 4/0, 6/1 4/0, 7W, Aluminum Alloy	50	19	29	Red
DTF 149P	.589-.665	266.8, 37W, All Aluminum 266.8, 18/1	50	19	32	Purple
DTF 169P	.666-.755	336.4, 19W, All Aluminum 336.4, 18/1 397.5, 19W, All Aluminum 400, 19W, 37W, All Aluminum	50	20	32	Brown
DTF 192P	.756-.955	477, 19W, 37W, All Aluminum 477, 18/1, 24/7	50	20	33	Red
DTF 217P	.856-.968	556.5, 24/7 636, 18/1 700, 37W, 61W, All Aluminum	50	21	35	Blue
DTF 246P	.969-1.096	795, 37W, All Aluminum 795, 61W, All Aluminum 715.5, 24/7 795, 54/7	50	22	38	Green
DTF 278P	1.097-1.240	954, 36/1, 54/7 1033.5, 37W 61W, All Aluminum	50	23	41	Yellow

Right-Hand Lay Standard

Note: For further information on how to order, see the Selection Information on page 15.

Distribution Tie

J Neck with Pad

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

3-1/2" Diameter ANSI Class 55-6 and 55-7 Single Skirt Pin Type/56-1 Double Skirt Pin Type
Groove Height Relationship 9/16" Min. 7/8" 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
DTJ 048P	.190-.215	#6, 6/1 #4, 7W, Compacted	100	19	26	Blue
DTJ 055P	.216-.244	#4, 7W, All Aluminum #4, 6/1, 7/1 Compacted	100	20	27	Brown
DTJ 062P	.245-.277	#4, 6/1, 7/1 #4, 7W, Aluminum Alloy	100	20	28	Orange
DTJ 070P	.278-.315	#3, 7W, Aluminum Alloy #2, 7W, All Aluminum	100	21	30	Purple
DTJ 080P	.316-.357	#2, 6/1, 7/1 #2, 7W, Aluminum Alloy #1, 6/1	100	21	32	Red
DTJ 091P	.358-.405	1/0, 7W, All Aluminum 1/0, 6/1 1/0, 7W, Aluminum Alloy	100	22	33	Yellow
DTJ 103P	.406-.459	2/0, 7W, All Aluminum 2/0, 6/1 2/0, 7W, Aluminum Alloy	50	19	27	Blue
DTJ 117P	.460-.520	3/0, 7W, All Aluminum 3/0, 6/1 3/0, 7W, Aluminum Alloy	50	19	28	Orange
DTJ 132P	.521-.588	4/0, 7W, All Aluminum 4/0, 6/1 4/0, 7W, Aluminum Alloy	50	20	30	Red
DTJ 149P	.589-.665	266.8, 37W, All Aluminum 266.8, 18/1	50	20	33	Purple
DTJ 169P	.666-.755	336.4, 19W, All Aluminum 336.4, 18/1 397.5, 19W, All Aluminum 400, 19W, 37W, All Aluminum	50	21	33	Brown
DTJ 192P	.756-.855	477, 19W, 37W, All Aluminum 477, 18/1, 24/7	50	21	34	Red
DTJ 217P	.856-.968	556.5, 24/7 636, 18/1 700, 37W, 61W, All Aluminum	50	22	36	Blue
DTJ 246P	.969-1.096	795, 37W, All Aluminum 795, 61W, All Aluminum 715.5, 24/7 795, 54/7	50	23	39	Green
DTJ 278P	1.097 -1.240	954, 36/1, 54/7 1033.5, 37W 61W, All Aluminum	50	24	42	Yellow

Right-Hand Lay Standard

Note: For further information on how to order, see the Selection Information on page 15.