

## COATED TOP TIE

**Coated Top Ties** are intended for use with plastic jacketed conductors and tie top ANSI C29 compliant insulators only. They are suitable for use on any plastic jacketed conductor. Coated Top Ties are designed for installation on single insulator construction in the top groove of interchangeable insulators.

Coated Ties incorporate a semi-conductive plastic coating, selected for its superior electrical tracking resistance properties, covering a formed steel wire.

### FEATURES AND BENEFITS

- Applicable to interchangeable headstyle insulators - C and F-Neck
- Accommodates conductors from 0.278" - 1.585" diameter
- Easily applied by hand or with hot sticks
- Fully UV-stabilized
- Accommodates line angles up to 10-degrees in the vertical orientation
- Relieved ends eases application without damaging the conductor jacket and eliminates tracking
- Long service life without deterioration of material properties
- Ideal for use with Tree Wire or Spacer Cable construction
- Test reports available upon request

## DESIGN CONSIDERATIONS

Description	Details
Interchangeable Headstyle Insulator	To ensure proper fit and service life, it is recommended that only insulators corresponding to C-Neck, or F-Neck be used. These neck-diameter and groove-height dimensions appear in the appropriate ANSI C29 standards. Consult PLP for engineering recommendations on non-interchangeable headstyle insulators. A sample of the insulator in question is required.
Conductor Size	Conductor sizes up to 1.585" OD can be accommodated depending on the insulator's top groove radius.
Line Angles - General Guidelines	<p>On vertically mounted insulators, Coated Top Ties can normally accommodate line angles up to 10-degrees. When insulators are mounted at various degrees of cant from the vertical, various line angles may be accommodated.</p> <p>In all cases, the conductor should rest in the preferred insulator groove, independently of the tie, so the tie is not required to force the conductor to remain in that groove. The largest practical angle a tie can accommodate depends upon limiting factors such as conductor size, tension, span lengths, sag angles, insulator style and orientation, etc. Consult PLP for further guidance on line angle issues.</p>
Mechanical Strength	<p>The Coated Top Tie is designed to provide longitudinal holding strength sufficient to contain the broken conductor to a single span and minimize the damage to the conductor and the pole's structural components. <b>TR-856-E</b> covers the mechanical testing of the Coated Top Tie and is available upon request.</p> <p>The Coated Top Tie is designed to permit controlled and limited movement of unbroken conductor and, under certain conditions, return the conductor to its original position. The ability of the Tie to give and return under differential loading conditions is called "<b>resiliency</b>" and is designed into each Coated Top Tie.</p>

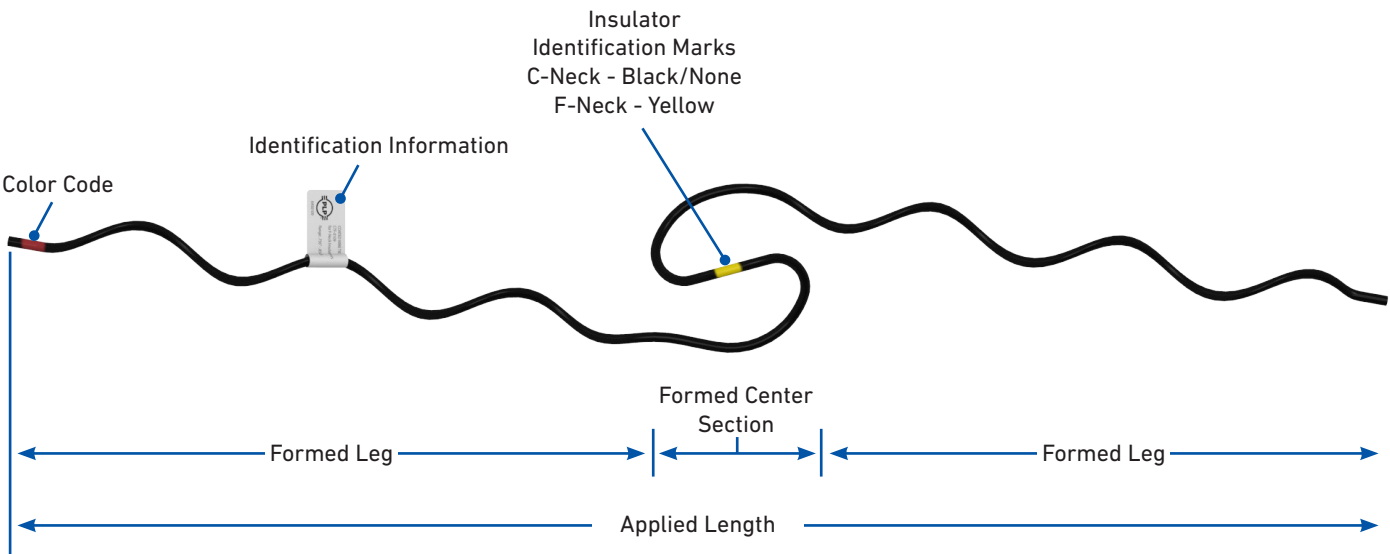
### Additional Resources

For additional information regarding the use and installation of Coated Top Ties, scan or click the QR code below.



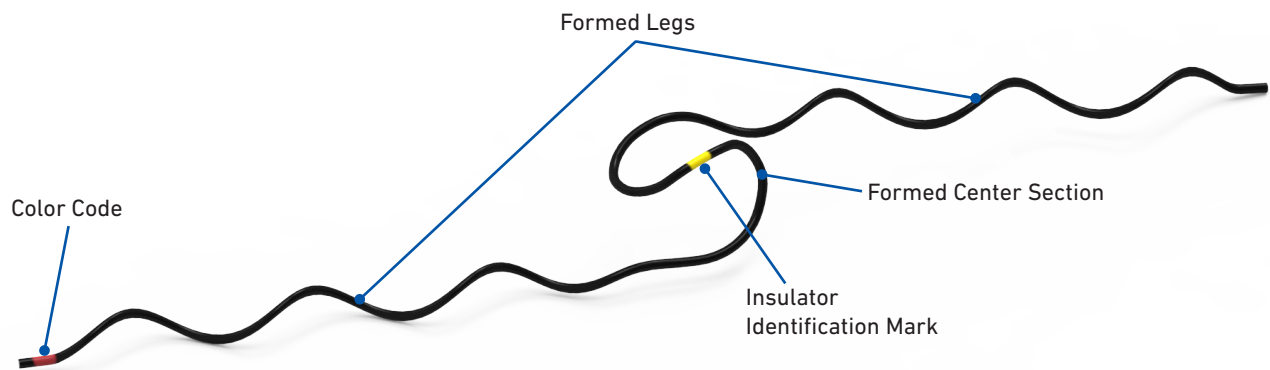
Coated Top Tie  
Webpage

# SPECIFICATIONS



## Coated Double Side Tie

Component	Description
Identification Information	Shows catalog number and pertinent tie information. Printed on a tie flag.
Color Code	Identifies conductor diameter ranges for colors corresponding to tabular information on catalog pages.
Insulator Identification Mark	Identifies the correct insulator headstyle. For a C-Neck insulator the color mark is black and would blend in with the surface of the tie. In this case the color mark is not applied.
Formed Legs	Helical legs retain the conductor in place and prevent the conductor from shifting over the insulator.
Formed Center Section	Allows the tie to form properly around the neck of the insulator.
Applied Length	Assist in identification of conductor size corresponding to tabular information appearing on catalog pages.



Coated Top Tie

## INSULATOR APPLICATION INFORMATION

Insulator Description	Specification	Neck Diameter
C-Neck Interchangeable Head-style Insulators	ANSI C29.5 Class 55-3 Pin Type	2-1/4"
	ANSI C29.18 Class 51-1C Post Type	
	ANSI C29.18 Class 51-2C Post Type	
F-Neck Interchangeable Head-style Insulators	ANSI C29.5 Class 55-4 Pin Type	2-7/8"
	ANSI C29.5 Class 55-5 Pin Type	
	ANSI C29.7 Class 57-1 Post Type	
	ANSI C29.7 Class 57-2 Post Type	
	ANSI C29.7 Class 57-3 Post Type	
	ANSI C29.18 Class 51-1F Post Type	
	ANSI C29.18 Class 51-2F Post Type	
	ANSI C29.18 Class 51-3F Post Type	
	ANSI C29.18 Class 51-4F Post Type	

## ORDERING INFORMATION

### Coated Top Tie: C-Neck and F-Neck Interchangeable Headstyle Insulators

Diameter Range		Units per Carton	C-Neck Insulators (Black/None)			F-Neck Insulators (Yellow)			Conductor Color Code
in			Catalog Number	Applied Length	Weight per Carton	Catalog Number	Applied Length	Weight per Carton	
Minimum	Maximum			in	lb		in	lb	
0.278	0.315	50	CTC-0201	28	10	CTF-0101	28	13	Purple
0.316	0.357		CTC-0202	28	10	CTF-0102	28	13	Red
0.358	0.405		CTC-0203	30	11	CTF-0103	30	14	Yellow
0.406	0.459		CTC-0204	30	12	CTF-0104	30	14	Blue
0.460	0.520		CTC-0205	32	13	CTF-0105	32	15	Orange
0.521	0.588		CTC-0206	33	14	CTF-0106	33	15	Red
0.589	0.665		CTC-0207	34	15	CTF-0107	34	16	Purple
0.666	0.755		CTC-0208	36	16	CTF-0108	36	16	Brown
0.756	0.858		CTC-0209	36	17	CTF-0109	36	17	Red
0.859	0.968		CTC-0210	40	18	CTF-0110	40	18	Blue
0.969	1.096		CTC-0211	44	19	CTF-0111	44	19	Green
1.097	1.240		CTC-0212	48	20	CTF-0112	48	23	Yellow
1.241	1.402		CTC-0213	48	21	CTF-0113	48	23	Orange
1.403	1.585		CTC-0214	48	22	CTF-0114	48	24	Black/None