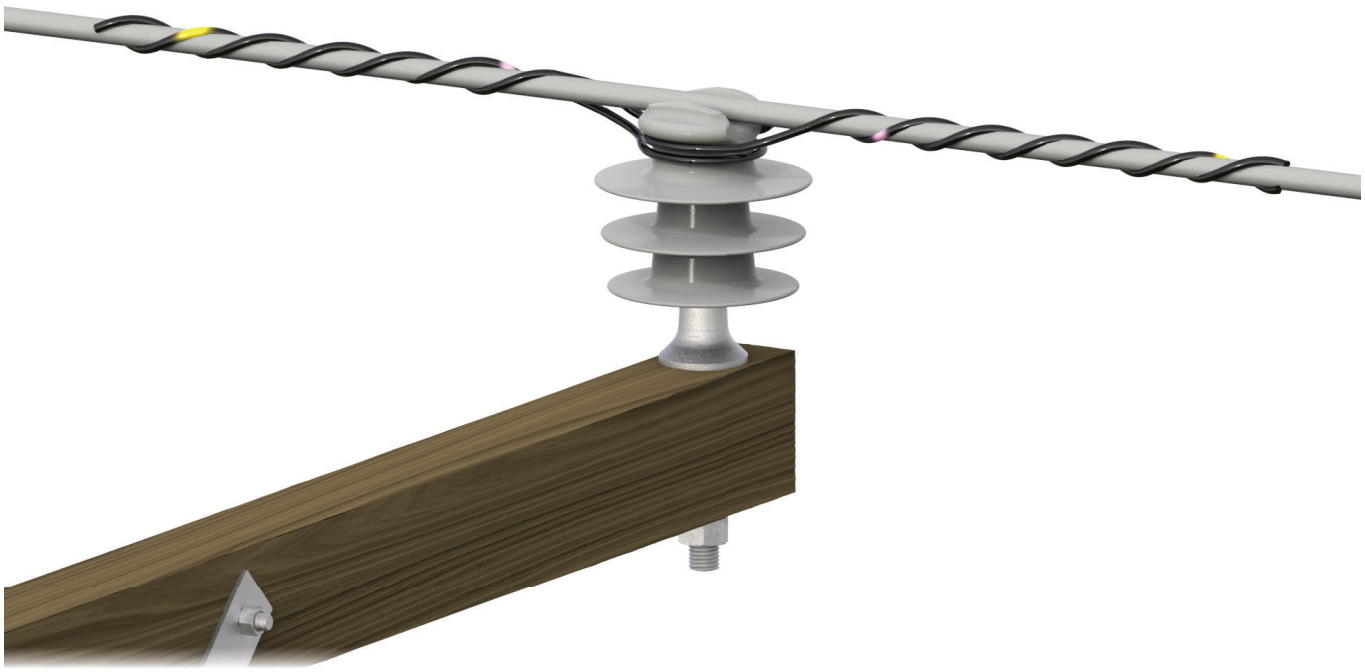


COATED TOPLOCK™ TIE

PLP's Coated TopLock™ Ties are engineered for secure, long-term performance on plastic jacketed conductors utilizing ANSI C29-compliant tie top insulators. Designed for single insulator construction, these ties install in the top groove of interchangeable head-style insulators, delivering reliable conductor retention across a wide range of applications.

Each tie features a formed steel core with a durable semi-conductive coating, providing superior resistance to electrical tracking while protecting the conductor jacket.

FEATURES AND BENEFITS

- Designed for use with interchangeable headstyle insulators (F-Neck and C-Neck)
- Accommodates conductor diameters from 0.278" to 1.585"
- Easily applied by hand or with hot sticks
- Relieved ends help prevent damage to the conductor jacket during installation
- Semi-conductive coating helps resist electrical tracking
- Fully UV-stabilized for long-term environmental exposure
- Maintains material performance over time without deterioration
- Ideal for tree wire and spacer cable construction
- Two-piece design delivers higher mechanical load ratings

DESIGN CONSIDERATIONS

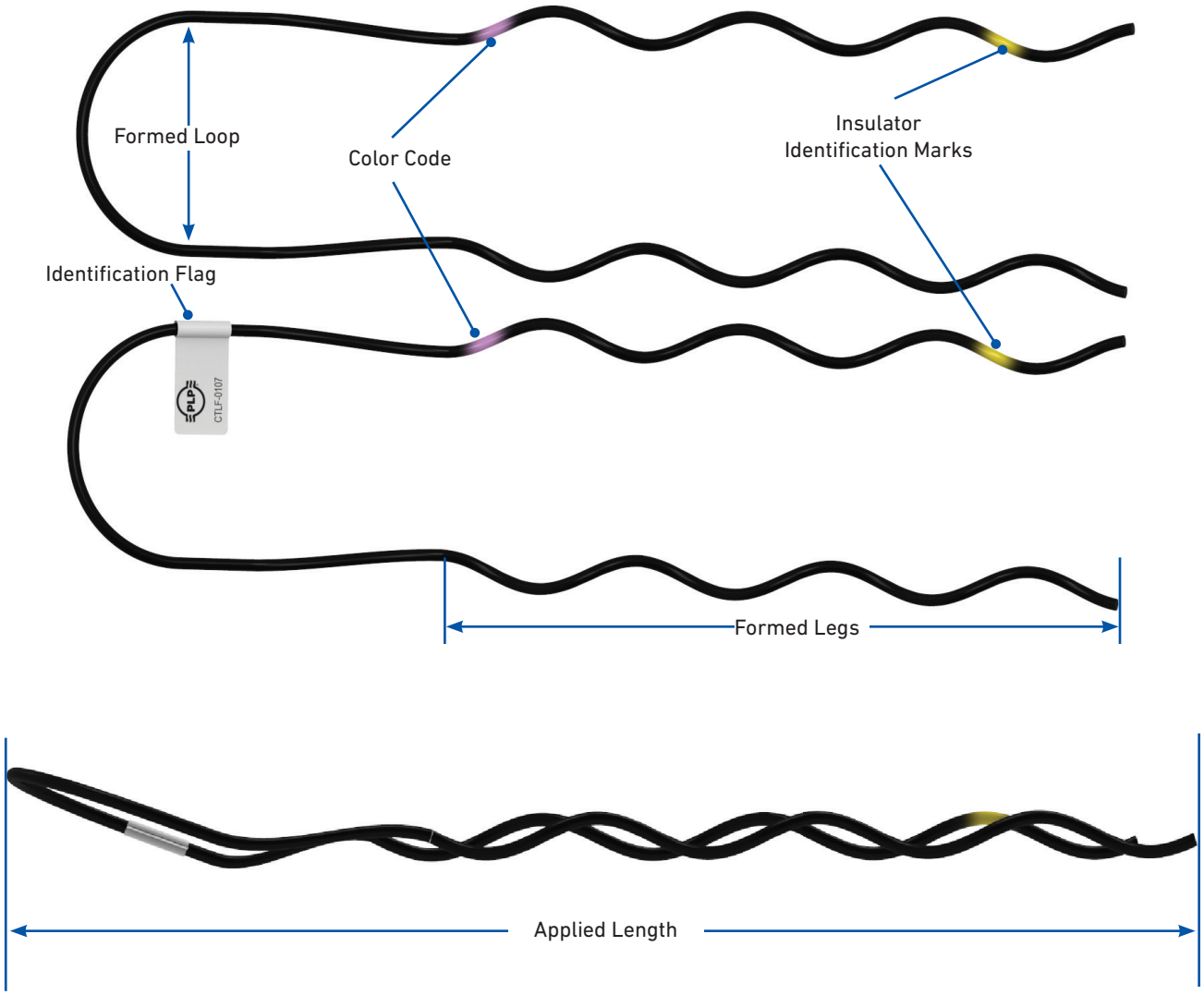
Description	Details
Interchangeable Headstyle Insulator	To ensure proper fit and service life, it is recommended that only insulators corresponding to C-Neck or F-Neck be used. These neck-diameter and groove-height dimensions appear in the appropriate ANSI C29 standards. Consult PLP for engineering recommendations 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	On vertically mounted insulators, Coated TOPLOCK Tie 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. 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.
Mechanical Strength	The Coated TOPLOCK 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. Test reports covering the mechanical testing of the Coated TOPLOCK Tie are available upon request. The Coated TOPLOCK 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 "**resiliency**" and is designed into each Coated TOPLOCK Tie.

Additional Resources

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

Coated TOPLOCK Tie
Installation Instructions

COMPONENTS



Coated TOPLOCK Tie

Component	Description
Identification Flag	Shows the catalog number and pertinent tie information. Printed on a tie flag.
Color Code	Identifies conductor diameter range
Insulator Identification Mark	Identifies the correct insulator headstyle
Formed Legs	Secure the conductor and prevent movement over the insulator
Formed Loop	Enables proper fit around the insulator neck
Applied Length	Provides quick reference for conductor size selection based on catalog data

INSULATOR APPLICATION INFORMATION

Insulator Description	Specification	Neck Diameter
C-Neck Interchangeable Headstyle 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 Headstyle 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 TOPLOCK Tie

Diameter Range		C-Neck Insulators (Black/None)		F-Neck Insulators (Yellow)		Conductor Color Code	Units per Carton
in		Catalog Number	Applied Length	Catalog Number	Applied Length		
Minimum	Maximum		in		in		
0.460	0.520	CTLC-1205	20	CTLF-1105	19	Orange	50
0.521	0.588	CTLC-1206	21	CTLF-1106	20	Red	
0.589	0.665	CTLC-1207	21	CTLF-1107	20	Purple	
0.666	0.755	CTLC-1208	22	CTLF-1108	21	Brown	
0.756	0.858	CTLC-1209	24	CTLF-1109	22	Red	
0.859	0.968	CTLC-1210	25	CTLF-1110	23	Blue	
0.969	1.096	CTLC-1211	27	CTLF-1111	24	Green	
1.097	1.240	CTLC-1212	29	CTLF-1112	26	Yellow	
1.241	1.402	CTLC-1213	31	CTLF-1113	27	Orange	
1.403	1.585	CTLC-1214	33	CTLF-1114	28	Black/None	