

# EZ-WRAP® Spool Tie

FOR USE ON BARE OR PLASTIC JACKETED CONDUCTORS  
AND 1-3/4" DIAMETER SPOOL INSULATORS  
(ANSI CLASSES 53-1,53-2,53-3)

## NOMENCLATURE

RUS Accepted



**Tie Assembly:** An EZ-WRAP Spool Tie Assembly consists of one metal tie component plus tie tube.

**Tie Tube:** Each EZ-WRAP Spool Tie is supplied with an elastomeric tie tube designed for abrasion protection with bare conductors.

**Color Code:** Identifies proper conductor size, corresponding to tabular information appearing in this section.

**Identification Tape:** Lists catalog numbers, proper insulator type, and nominal conductor sizes.

**Applied Length:** Describes length of tie after installation, plus assists in product identification.



## GENERAL RECOMMENDATIONS

The EZ-WRAP Spool Tie is intended for use on aluminum based conductors with diameters from .190" to .968".

**Interchangeable Neck-Style Insulators:** EZ-WRAP Spool Ties listed in this section are designed to be applied to only ANSI Class 53-1, 53-2 and 53-3 spool insulators which have 1-3/4" neck diameters.

To insure proper fit and service life of the EZ-WRAP Spool Tie, it is recommended only spool insulators with uniform dimensions, as described by the latest (C29.3) ANSI standards, be used.

Each EZ-WRAP Spool Tie is supplied with an elastomeric tie tube designed to minimize abrasion to bare conductors and insulators. For application on jacketed conductors, the tube may be discarded. EZ-WRAP Spool Ties can also be applied to bare conductor without the tube where desired, although consideration of abrasion should be given.

**Mechanical Strength:** The EZ-WRAP Spool Tie is designed to provide superior mechanical strength and resiliency during conductor motion and cyclic loading conditions. Longitudinal holding strengths consistently exceed the requirements of the National Electric Safety Code. **TR-695E** covers the mechanical testing of the EZ-WRAP Spool Tie and is available upon request.

The RIV/TVI characteristics of EZ-WRAP Spool Ties are equivalent to those of a well made hand tie as originally installed. The precontoured loop and formed legs of the EZ-WRAP Spool Tie assure continued fit, which provide better RIV/TVI performance than a loosened hand tie wire.

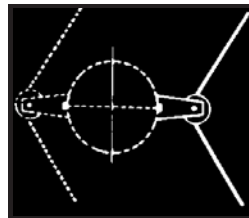
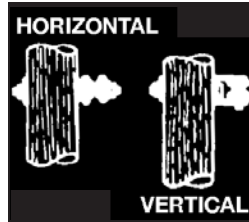
**Vibration Dampers:** The EZ-WRAP Spool Tie is designed to outperform the hand tie during conductor motion activity, such as aeolian vibration and galloping. However, on some lines, the use of dampers may be necessary to prevent damage. Utilities that have experienced conductor motion or expect to, should consider adding dampers. Consult PLP® for general guidelines and advice concerning conductor motion and dampers. Also consult the Motion Control section.



# EZ-WRAP<sup>®</sup> Spool Tie

## INSTALLATION GUIDELINES

- 1. Insulator Mounting:** When installing an EZ-WRAP Spool Tie, the spool insulator may be mounted either horizontally or vertically. Whatever the construction style, the conductor should be positioned so it will bear, as much as possible, into the insulator. During vertical mounted installations, the insulator should be removed from the rack or clevis so the conductor may be positioned inside the insulator. However, when running angles turn *into* the pole, the conductor should be placed on the *outside* of the insulator so the conductor bears against the spool.



- 2. Line Angles – General Guidelines:** On horizontally-mounted insulators, EZ-Wrap Spool Ties can accommodate line angles up to **10°**. On vertically-mounted insulators, line angles up to **40°** can be achieved.

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<sup>®</sup> for further guidance on line angle issues.

- 3. Tapping:** Taps should not be made directly over the legs or loop of the EZ-WRAP Spool Tie.
- 4. Conductor Compatibility:** EZ-WRAP Spool Ties should be used only on the size, type, and lay direction for which they are designed. When using conductors not mentioned in this catalog section, consult PLP.
- 5.** During installation and at all times, care should be taken to avoid gouging or damaging the protective coating of the EZ-WRAP Spool Tie or the conductor.
- 6.** EZ-WRAP Spool Ties should not be used as tools; i.e., come-alongs, pulling-in grips, etc.
- 7.** Consult the EZ-WRAP Spool Tie Application Procedure for additional installation information.
- 8.** When in doubt about usage of EZ-WRAP Spool Ties, consult your PLP representative or Preformed Line Products.

## SAFETY CONSIDERATIONS

- 1.** This product is intended for a single (one-time) use and for the specified application. **CAUTION: DO NOT REUSE OR MODIFY THIS PRODUCT UNDER ANY CIRCUMSTANCES.**
- 2.** This product is intended for use by trained craftspeople only. This product **SHOULD NOT BE USED** by anyone who is not familiar with and trained in the use of it.
- 3.** When working in the area of energized lines with this product, **EXTRA CARE** should be taken to prevent accidental electrical contact.
- 4.** For **PROPER PERFORMANCE AND PERSONAL SAFETY** be sure to select the proper size EZ-WRAP Spool Tie before application.
- 5.** EZ-WRAP Spool Ties are precision devices. To insure proper performance, they should be stored in cartons under cover and handled carefully.

# EZ-WRAP® Spool Tie

For use on:

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

**Spool Insulator**

**ANSI 53-1**  
**ANSI 53-2**  
**ANSI 53-3**

**1-3/4"**  
**Neck Diam.**



Catalog Number	Diameter Range (Inches)		Nominal Conductor Size		Units Per Carton	Wt./Lbs.	Applied Length (Inches)	Color Code
	Min.	Max.	Bare Conductor	Plastic Jacketed Conductor				
EZSP-4372	.245	.277	#4 (6/1, 7/1) #4 (7W Alum. Alloy)	#6 (7W, 2/64s) #6 (Solid, 3/64s) #6 (6/1, 2/64s)	100	16	19	Orange
EZSP-4374	.316	.357	#2 (6/1, 7/1) #2 (7W Alum. Alloy) #1 (6/1)	#4 (7W, 3/64s) #4 (6/1, 7/1, 3/64s)	100	16	24	Red
EZSP-4375	.358	.405	1/0 (7W All Alum.) 1/0 (6/1) 1/0,7(W Alum. Alloy)	#3 (7W, 4/64s) #2 (7W, 3/64s) #4 (7W, 5/64s)	100	17	26	Yellow
EZSP-4376	.406	.459	2/0 (7W All Alum.) 2/0 (6/1) 2/0 (7W Alum. Alloy)	#2 (6/1, 3/64s) #2 (7W, 4/64s) #1 (7W, 4/64s)	100	21	28	Blue
EZSP-4377	.460	.520	3/0 (7W All Alum.) 3/0 (6/1) 3/0 (7W Alum. Alloy)	#4 (7W, 8/64s) #1 (6/1, 4/64s) #1 (7W-19W, 5/64s) 1/0 (7W, 4/64s)	100	21	31	Orange
EZSP-4378	.521	.588	4/0 (7W All Alum.) 4/0 (6/1) 4/0 (7W Alum. Alloy)	1/0 (6/1, 4/64s) 1/0 (7W, 5/64s) 2/0 (7W, 4/64s) 1/0 (6/1, 5/64s)	100	27	32	Red
EZSP-4379	.589	.665	266.8 (37W All Alum.) 18/1) 336.4 (19W All Alum.)	3/0 (7W-19W, 4/64s) 3/0 (6/1, 4/64s) 4/0 (7W 19W, 4/64s) 3/0 (6/1, 5/64s)	100	28	23	Purple
EZSP-4380	.666	.755	336.4 (18/1) 397.5 (19W All Alum.) 400 (19W, 37W All Alum.)	4/0 (7W, 5/64s) 3/0 (6/1, 6/64s) 4/0 (6/1, 5/64s) 266.8 (19W, 5/64s)	100	30	25	Brown
EZSP-4381	.756	.858	477 (19W, 37W All Alum.) 477 (18/1, 24/7), 26/7	266.8 (18/1, 5/64s) 336.4 (19W, 4/64s) 336.4 (37W, 6/64s)	100	35	26	Red
EZSP-4382	.859	.968	556.5 (26/7) 636 (18/1) 700 (37W, 61W All Alum.)	350 (37W, 6/64s) 336.4 (19W, 8/64s) 450 (37W, 5/64s) 477(37W, 5/64s)	100	40	28	Blue
EZ-MS-10279	.969	1.096	636 (24/7, 26/7, 54/7) 795 (37W, 61W) 795 (36/1, 24/7, 54/7)	500 (37W, 5/64s) 477 (37W, 8/64s) 500 (37W, 8/64s)	100	66	38	Green

#### EXPLANATORY NOTES:

- (1) "Diameter Range" indicates the size of conductors that utilize the same tie.
- (2) "Nominal Conductor Size" indicates only a few conductors that have outside diameters within the ranges listed.
- (3) Since all spool insulators do not have neck dimensions suitable for application of the EZ-WRAP Spool Tie, consult the Insulator Manufacturer's List on the last page of the Spool Tie Section.
- (4) AWAC is a registered trademark of the Copperweld Co.