

Spool Tie

RUS Approved

MATERIALS

Ties - Manufactured of aluminum covered steel.

Pads - A specially formulated elastomer pad is supplied with each Spool Tie used for bare conductor, identified by catalog number suffix P. To specify the Spool Tie without the pad use the suffix T (for use on jacketed conductor).

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



General Recommendations

To ensure proper fit and service life, it is recommended that only spool insulators of 1-3/4" neck diameter be used of ANSI class 53-1, 53-2 and 53-3.

Spool Ties not only replace hand ties over armor rods, but Spool Ties with pads provide superior protection against abrasion and all types of conductor motion from high frequency aeolian vibration to low frequency galloping.

The pad, which surrounds the conductor is a resilient cushion where the conductor is in contact with the insulator.

Spool Ties without pads are used for jacketed conductor.

Maximum Size

Spool Ties are available for conductor sizes up to 0.968".

Line Angle

The following are the maximum permissible angles:

| | HORIZONTALLY MOUNTED SPOOL | VERTICALLY MOUNTED SPOOL |
|------------|----------------------------|--------------------------|
| LINE ANGLE | 20° | 15° |
| SAG ANGLE | 15° | 20° |

Unbalanced Loading

Under unbalanced load conditions, the Spool 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 Spool Ties are superior to those of a well made hand tie when originally installed. During service-life, the pre-contoured helix assures consistent fit which has better RIV characteristics than loosened tie-wire.

Tapping

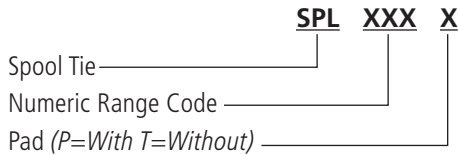
Tapping over applied legs of the Spool Tie is not recommended. Taps should be located at least 6 inches from the end of the legs.

Spool Tie

1-3/4 Neck With Pad

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

Selection Information



ANSI Class 53-1, 53-2, and 53-3 1 3/4" Neck Diameter

| AFL NO. | DIA. RANGE INCHES | NOMINAL CONDUCTOR SIZE | UNITS PER CARTON | WT. PER CARTON POUNDS | APPLIED LENGTH INCHES | COLOR CODE |
|-----------|-------------------|--|------------------|-----------------------|-----------------------|------------|
| SPL 048P | .190-.215 | #6, 6/1 #4, 7W, Compacted | 100 | 12 | 16 | Blue |
| SPL 055P | .216-.244 | #4, 7W, All Aluminum #4, 6/1, 7/1 Compacted | 100 | 13 | 17 | Brown |
| SPL 062P | .245-.277 | #4, 6/1, 7/1 #4, 7W, Aluminum Alloy | 100 | 16 | 19 | Orange |
| SPL 070IP | .278-.315 | #3, 7W, Aluminum Alloy #2, 7W, All Aluminum | 100 | 17 | 21 | Purple |
| SPL 080P | .316-.357 | #2, 6/1, 7/1 #2, 7W, Aluminum Alloy #1, 6/1 | 100 | 23 | 24 | Red |
| SPL 091P | .358-.405 | 1/0, 7W, All Aluminum 1/0, 6/1 1/0, 7W, Aluminum Alloy | 100 | 24 | 26 | Yellow |
| SPL 103P | .406-.459 | 2/0, 7W, All Aluminum 2/0, 6/1 2/0, 7W, Aluminum Alloy | 100 | 28 | 28 | Blue |
| SPL 117P | .460-.520 | 3/0, 7W, All Aluminum 3/0, 6/1 3/0, 7W, Aluminum Alloy | 100 | 32 | 31 | Orange |
| SPL 132P | .521-.588 | 4/0, 7W, All Aluminum 4/0, 6/1 4/0, 7W, Aluminum Alloy | 50 | 18 | 32 | Red |
| SPL 149P | .589-.665 | 266.8, 37W, All Aluminum 266.8, 18/1 | 50 | 19 | 23 | Purple |
| SPL 169P | .666-.755 | 336.4, 19W, All Aluminum 336.4, 18/1 336.4, 37W, All Aluminum 397.5, 19W, All Aluminum 400, 19W, 37W, All Aluminum | 50 | 24 | 25 | Brown |
| SPL 192P | .756-.855 | 477, 19W, 37W, All Aluminum 477, 18/1, 24/7 | 50 | 25 | 26 | Red |
| SPL 217P | .856-.968 | 556.5, 19W, All Aluminum 636, 18/1 700, 37W, 61W, All Aluminum | 50 | 26 | 28 | Blue |