Alloy Slack Span Dead-end

NOMENCLATURE

Conductor color code
Crossover mark
Identification Tag
Applied Length

Dead-end Material Helical Leg Section: An aluminum alloy version of the original PLP Slack Span Dead-end specifically designed for corrosive environments.

Crossover Marks: Indicates starting point for application on conductor.

Color Code & Length: Assists in identification of conductor diameter, corresponding to tabular information listed on catalog pages.

Product Identification Tag/Warning Label: Identifies catalog number, appropriate conductor types and sizes.

GENERAL RECOMMENDATIONS

The Alloy Slack Span Dead-end is intended for use on all aluminum conductors with diameter ranges from .190" to 1.24". It is specifically designed to terminate primary, secondary and neutral conductors within corrosive environments. Each Alloy Slack Span Dead-end covers a range of conductor diameters as outlined on catalog pages.

Conductor Tension Limitations: The Alloy Slack Span Dead-end is specifically designed for LIMITED TENSION APPLICATIONS. IT SHOULD NOT BE USED AS A FULL TENSION DEAD-END.

The Alloy Slack Span Dead-end is specifically designed to be installed on pin, line post or spool insulators when used in limited tension construction. Refer to Figure 1 for a typical installation.

The Alloy Slack Span Dead-end is designed to grip the conductor uniformly to prevent distortion. It also offers a unique design that eliminates bolts, nuts, washers and other component parts that may become lost or damaged during installation or in service.

Where requirements call for Dead-ending conductors associated with bare neutral messengers or self-supporting cable used in making service drops, use Alloy Dead-end Bare. On jacketed conductors, use Coated Dead-ends.

Alloy Slack Span Dead-end replaces conventional Dead-ending equipment used in Alloy Slack Span construction.

Dead-end insulators, clamps, and associated hardware when used in this way normally do not offer tight, solid electrical connections between each other. This "looseness" can allow intermittent contact and ultimately produce troublesome RFI (RIV) and TVI. Construction practices utilizing the Alloy Slack Span Dead-end can minimize this problem.

Applied Length
Conductor color code
Crossover mark
Identification Tag

The Alloy Slack Span Dead-ends (Alloy Slack Span Dead-ends) are not recommended for use with high temperature/low sag conductors such as ACSS, ACSS/AW, ACSS/TW, ACCR or other types of conductors with loose, and/or annealed outer layer strands. Typically THERMOLIGN® Dead Ends are suggested for these applications. Consult PLP for more information.
Alloy Slack Span Dead-end

INSTALLATION GUIDELINES

**Conductor Compatibility:** Alloy Slack Span Dead-ends should be used only on the size and type of conductor for which they are designed. They must have the same lay as the conductor to which they are being applied. When ordering Alloy Slack Span Dead-ends, make sure to specify the conductor size and type they are to be used on. When using types and/or sizes of conductors not mentioned in these catalog pages, consult Preformed Line Products Company.

During installation, and at all times, care should be taken to avoid gouging or damaging the Alloy Slack Span Dead-end or the conductor itself.

**Alloy Slack Span Dead-ends should not be used as tools; i.e., come-alongs, pulling-in grips, etc.**

Tools are not required to install Alloy Slack Span Dead-ends, except for hot stick applications.

**Tapping:** Tapping over the legs of the Alloy Slack Span Dead-end is NOT recommended. Taps can be made beyond the ends of the Dead-end on the conductor or on the conductor tail that extends through the loop.

Alloy Slack Span Dead-ends should not be used on overhead shield wires.

**ACCEPTABLE FITTINGS**

Alloy Slack Span Dead-ends are specifically designed to be applied around the necks of certain pin, line post and spool insulators.

Alloy Slack Span Dead-ends can be applied to either:
- **ANSI “C” and “F” neck insulators and ANSI class 53-1 to 53-5 spool insulators,** or
- **ANSI “J” neck insulators.**

Refer to Illustration 1. for nominal insulator neck sizes and appropriate size Alloy Slack Span Dead-end.

Application of Alloy Slack Span Dead-ends to non-insulator fittings is acceptable as long as the fitting:
- has smoothly contoured dimensions,
- has a seat diameter (Illustration 2, Figure 1) consistent with the insulator neck diameters shown in Illustration 1,
- has a minimum groove width (Illustration 2, Figure 2) of 9/16".

**SAFETY CONSIDERATIONS**

1. This product is intended for a single (one-time) use and for the specified application, although it may be reapplied twice for retensioning within 90 days of initial installation. **CAUTION: DO NOT MODIFY OR REUSE THIS PRODUCT AFTER 90 DAYS 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 **PREFORMED™** product before application.

5. **PREFORMED™** products are precision devices. To insure proper performance, they should be stored in cartons under cover and handled carefully.
Alloy Slack Span Dead-end

Illustration 1. Applicable Pin, Line post and Spool Insulators

| ANSI "C"-Neck: Nominal neck diameter 2-1/4" |
| ANSI "F"-Neck: Nominal neck diameter 2-7/8" |

| ANSI Class 53-1 to 53-5 Spool Nominal Neck Diameter 1-3/4" to 2-7/8" |
| ANSI "J"-Neck: Nominal neck diameter 3-1/2" |

Illustration 2. Acceptable Dimensions for Non-Insulator Fittings

| Fig. 2 Seat Diameter |
| Loop of Dead-End |
| Seat Diameter |

| Fig. 3 Groove Width |
| Seat Diameter |
| Groove Width |
Alloy Slack Span Dead-end

For use on:
ACAR, All-Aluminum
ACSR, Aluminum Alloy
AWAC®, Compacted ACSR

C-Neck and F-Neck Interchangeable
Headstyle Insulators:
  2-1/4" Neck Diameter
  2-7/8" Neck Diameter
ANSI Class Spool Insulators:
ANSI 53-1, 53-2, 53-3
  1-3/4" Neck Diameter
ANSI 53-4, 53-5
  2-7/8" Neck Diameter
J-Neck Interchangeable
Headstyle Insulators:
  3-1/2" Neck Diameter
ANSI 55-6 Single Skirt Pin
ANSI 55-7 Single Skirt Pin
ANSI 55-8 Double Skirt Pin

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<th>Catalog Number J-Neck</th>
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<th>Nominal Conductor Size</th>
<th>Units Per Carton</th>
<th>Weight (lbs.)</th>
<th>Applied Length (inches)</th>
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Right-hand lay standard

EXPLANATORY NOTES:

1. Where Dead-ending requirements call for other than limited tension requirements, refer to Alloy Dead-end Bare.
2. Where Dead-ending requirements call for Service Grip Dead-ends, refer to that section.
3. Insulators with C and F neck dimensions can be identified by consulting the manufacturer.
4. “Conductor Range” indicates the range of conductors that utilize the same Dead-end.
5. Refer to Illustrations 1 and 2 of the Acceptable fittings portion of this section for dimensions of appropriate insulators and fittings.
6. When in doubt about dimensions, insulators, fittings, installations, or unusual applications, consult your PREFORMED™ sales representative or Preformed Line Products Co.