



DISTRIBUTION ASSEMBLIES AND HARDWARE



STANDARD TERMS AND CONDITIONS OF BUSINESS

1. APPLICATION OF CONDITIONS

These terms and conditions shall govern, and control all offers and sales by PREFORMEDLINE PRODUCTS (SOUTH AFRICA) (PTY) LTD. (herein called "PLP"). Unless expressly accepted in writing signed at its head office in Pietermaritzburg by an authorised signatory, any qualification of these conditions in a customer's order or enquiry, or anything contrary to or conflicting with any of these conditions shall be treated as inapplicable and of no effect.

2. ACCEPTANCE

Any tender or quotation by PLP only applies for thirty days from date thereof; and no order shall bind PLP until the customer shall receive written confirmation thereof from PLP, duly signed on behalf of PLP.

3. PRICES

All prices are nett, F.O.R. Works at Pietermarit burg and subject to change without notice. Value Added Tax (VAT) is not included and will be added-on where applicable.

4. FINANCIAL RESPONSIBILITY

The customer's financial responsibility is at all times subject to approval of PLP's credit department and PLP at any time may require payment in advance for a satisfactory security or guarantee that invoices will be paid promptly when due. If the customer fails to comply with any term of payment, PLP reserves the right to withhold further deliveries or to terminate the agreement and any unpaid amount thereupon shall become due immediately.

5. TERMS OF PAYMENT

Unless otherwise specifically agreed between PLP and the customer in writing, The customer shall pay PLP immediately on presentation of an invoice before delivery, without deduction or set-off, and payments shall not be withheld or deferred on the basis of any claims as alleged by the customer against PLP.

6. DELIVERY

The PLP will use its best endeavours to deliver the products by the time fixed for delivery, but if from any cause other than the wilful default of PLP delivery is delayed, PLP will not be responsible for any loss or damage thereby caused to the customer. Failure of one delivery shall not vitiate the contract as to others. No responsibility is accepted for delays due to loss in manufacturing or for damage and/or other delays due to Act of God, War, Fire, Civil Commotion, Accidents, and for other causes beyond PLP's control. Offers of delivery from stock are subject to the fitting being unsold on receipt of order.

7. DELIVERY CHARGES

Unless otherwise agreed in writing or stated in the confirmation of the order, delivery charges are for the customer's account.

8. WARRANTY

PLP warrants that all products manufactured and /or supplied by PLP are free from defects in material and workmanship under normal and proper usage for a period of one year from the date of delivery. Products must be installed and maintained to PLP's recommended procedures, and subject to the provisions of clause 9 below that in the event of breach of this warranty, PLP's liability will be limited to the freer replacement only of the products provided such defect is proved to be directly attributable to defective materials or workmanship and subject to a claim being received by PLP in writing within 14 (Fourteen) days of such defect. This warranty is exclusive and in lieu of all other warranties, whether express, implied or otherwise arising by operation of law, trade, or course of dealing. In addition, the remedies set forth herein are the sole and exclusive remedies. PLP shall not be liable for any consequential or incidental damages of any kind.

9. LIABILITY

The liability of PLP for any loss or damage, including special, general, direct or consequential, in respect of any claim arising out of any contract entered into with a customer in connection with the manufacture and /or the sale and/or the supply and/or the delivery of our products, whether such claim shall be for breach of any statutory duty or for any delict (including the negligence of our employees or servants) shall not exceed the sale price of the relevant products sold to the customer. In addition, under no circumstance will PLP be liable for any costs associated with fires and wildfires including costs for clean-up efforts.

10. PACKING

All goods are packed in PLP's standard corrugated cartons, wooden crates and/or suitable alternatives at PLP's discretion.

11. LOSS OR DAMAGE IN TRANSIT

PLP is not responsible for this risk. In the case where PLP has accepted transit risk in terms of clause 1 of these conditions, transit loss or damage must be reported by the customer or consignee immediately in writing to the carrier, and also to PLP. Documentary evidence, as prescribed by the CARRIERS must be given by the consignee to PLP within seven days of receipt of the consignment in question.

12. TESTING AND INSPECTION

When testing and inspection is specified by customers and agreed to by PLP, PLP shall test/inspect at its Works in a suitable area designated by PLP.

13. DEVIATION IN QUANTITIES MANUFACTURED

Products manufactured are subject to a deviation of plus minus 10% in quantity.

14. STANDARD PACKS

PLP reserves the right to supply in increments its standard packs.

15. CANCELLATION

The customer shall not be entitled to cancel or repudiate any order or refuse to accept delivery of any order and/or claim damages or set-off as a consequence of late or short delivery.

STANDARD TERMS AND CONDITIONS OF BUSINESS

16. RETURNS

No product shall be returned without PLP's prior written authorization. Only non-obsolete standard items in original cartons may be returned. Carriage must be prepaid. Requests for return must be instituted within 90 days of original delivery and returns will be subject to factory inspection before acceptance and credit authorization. PLP reserves the right to apply a minimum servicing charge of 10% of the invoice amount..

17. SPECIFICATIONS

PLP reserves the right to change specifications without prior notice.

18. OWNERSHIP AND RISK

Notwithstanding the delivery of any product to a customer, ownership of the product shall not pass to the customer until PLP has received payment in full of the contract price of the said product. Risk in the product shall pass to the customer on delivery.

19. COSTS

Should PLP incur legal costs regarding litigation with the customer or for the collection of any amount due by the customer, the customer shall pay such costs on the attorney-and-client scale as well as collection costs calculated at 10% (TEN PERCENT) of each and every payment made.

20. CONFIDENTIALITY

The customer agrees that all information furnished by or obtained from PLP in connection with the sale of goods hereunder will be confidential, and the Buyer agrees not to disclose any such information to any other person, or use such information for any purpose, other than performing this contract.

21. MISCELLANEOUS

The failure of either party to insist upon performance of any term or condition herein or to exercise any right or privilege shall not thereafter waive the future performance of such term, condition, right of privilege or of any other terms, conditions, rights or privileges, whether of the same or similar type. The rights herein and the construction of these Terms and Conditions shall be governed by the laws of the Republic of South Africa, without giving effect to principles of conflict of laws, invalid or unenforceable, the remaining provisions shall not be affected thereby, but shall remain in full force and effect. The paragraph headings herein are solely for the convenience of and reference by the parties and do not constitute any part of these Terms and Conditions. The customer may not assign its rights or delegate its obligations hereunder without PLP's prior written consent.

22. FOREIGN LAW

Save for these terms and conditions being governed by the laws of the Republic of South Africa, PLP complies with the Foreign Corrupt Practices Act (FCPA) Customer agrees that it will comply with all relevant laws, and will comply with all laws regarding bribery including, but not limited to, FCPA.

23. PATENT

PLP shall defend the customer against any claim of infringement and shall pay any resulting damages finally awarded, provided that (a) the customer promptly notifies PLP in writing of any claim, and (b) PLP has sole control of the defence and all related settlement negotiations. This obligation does not apply to claims arising out of combinations of goods with goods provided by others, or to claims resulting from compliance of goods with the customer's design or specifications, or which the customer assumes and shall hold PLP harmless for any claims thereof.

SALES CONTACTS



SUBSTATION CONNECTORS SALES

CUSTOMER SUPPORT

SUPPORT:

Tel: (033) 397 5800

Fax: (033) 387 7094

Email: plppmb@plp.com



CONTENTS

| | |
|--|----|
| ARMOR-GRIP® Suspension Unit | 3 |
| ARMOR-GRIP® Support | 6 |
| Twin Ties | 8 |
| ARMORED Road Crossing Twin Ties..... | 11 |
| WRAPLOCK® Ties | 13 |
| Side And Spool Ties..... | 16 |
| ARMOR Rods | 20 |
| Line Guards-(Protector Rods)..... | 25 |
| Line Splice | 27 |
| Full Tension Line Splice | 32 |
| Parallel Groove Clamps | 34 |
| Dead Ends | 36 |
| Aluminium Alloy Thimble Clevis | 39 |
| Thimble Regulating Eye | 42 |
| Aluminium Bare Dead End | 43 |
| Thimble Clevis Malleable | 45 |
| Guy- Grip | 46 |
| Pole Tops | 48 |
| Pulling Eye | 50 |
| Double-Wrap Guy-Grip..... | 51 |
| Spiral Vibration Damper | 53 |
| Lashing Rod | 56 |
| Earth Guard | 58 |
| PVC Spacer | 59 |
| Pigtail Bolt Assembly | 60 |
| Pistol Grip Aluminium Strain Clamp | 60 |
| Aluminium Suspension Clamp..... | 61 |
| Shackles | 61 |
| Threaded Rod Assemblies | 61 |
| Eye Bolts | 62 |
| Eye Nuts | 62 |
| Conductor Guide | 63 |



ARMOR-GRIP® Suspension Unit

ARMOR-GRIP® Suspension units are made up of an Aluminum pressed strap, aluminum alloy cast housing, neoprene inserts, and ARMOR-GRIP® Suspension rods, all of which can be seen in the photograph. The rods are manufactured from the same basic material as the conductor for which the unit is designed. Units are manufactured for all of the more commonly used aluminium based conductors from Rabbit upwards in size. As demand arises other conductor types and sizes will be added to the range.

GENERAL RECOMMENDATIONS

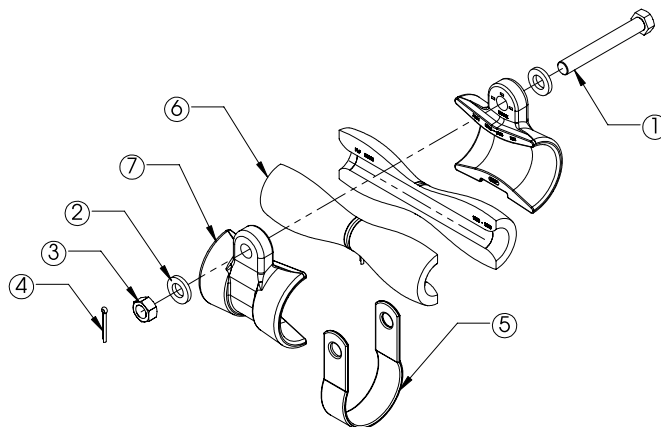
ARMOR-GRIP® Suspension is intended for use on aluminium based conductors, aluminum covered steel conductors/strands and galvanized steel strands. It is designed to reduce the static and dynamic stresses at the support point so that the conductor/strand is protected against the effects of oscillations. It also protects the conductor in the support area against impulse and power flash-over ARMOR-GRIP® Suspension is recommended as being superior to Armour-clamp combinations, for protecting conductors from bending stress, compression stress and abrasion.

ARMOR-GRIP® Suspension Unit

Specifications

| Cat.No. | Conductor Range(mm) | Conductor Name | Rod Colour Code |
|---------------|---------------------|------------------------|-----------------|
| AGS 304-315 | 7.728 - 8.00 | Weasel | Brown |
| AGS 323-333 | 8.20 - 8.46 | 35 Fox, Ladybird | Blue |
| AGS 343-355 | 8.71 - 9.02 | Fir, Ferret | Green |
| AGS 390-404 | 9.91 - 10.26 | Hazel, Rabbit, Fly | Yellow |
| AGS 419-434 | 10.64 - 11.02 | Pine, Bluebottle, Mink | Red |
| AGS 435-450 | 11.05 - 11.43 | Earwig | Blue |
| AGS 475-485 | 12.07 - 12.32 | Willow Racoon | Green |
| AGS 500-512 | 12.70 - 13.00 | Skunk | Orange |
| AGS 549-563 | 13.94 - 14.30 | Oak, Hare, Dog | Brown |
| AGS 620-645 | 15.75 - 16.38 | Mulberry | Orange |
| AGS 626-650 | 15.90 - 16.51 | Tiger, Hornet | Red |
| AGS 674-690 | 17.12 - 17.53 | Ash | Yellow |
| AGS 711-731 | 18.06 - 18.57 | Wolf | White |
| AGS 732-750 | 18.59 - 19.05 | Chicadee, Elm | Red |
| AGS 751-768 | 19.08 - 19.51 | Jaguar | Black |
| AGS 769-795 | 19.53 - 20.19 | Lynx, Poplar | Green |
| AGS 815-826 | 20.70 - 20.98 | Pelican, Panther | Brown |
| AGS 846-870 | 21.49 - 22.10 | Flicker, Cockroach | Blue |
| AGS 871-893 | 22.12 - 22.68 | Sycamore | Red |
| AGS 921-937 | 23.39 - 23.80 | Bear | Orange |
| AGS 938-975 | 23.83 -24.77 | Kingbird, Upas | Green |
| AGS 1022-1040 | 25.96 - 26.42 | Goat | Black |
| AGS 1041-1074 | 26.44 - 27.28 | Centipede, Tern | Blue |
| AGS 1119-1136 | 28.42 - 28.85 | Zebra | Yellow |
| AGS 1176-1208 | 29.87 - 30.68 | Scorpion | Green |
| AGS 1395-1416 | 35.43 - 35.97 | Dinosaur, Bersford | White |
| AGS 1478-1516 | 37.54 - 38.51 | Bull | Red |

Please add suffix D or T for split pin requirements. D is for Distribution – humpback split pin. T is for Transmission – straight split pin.



| ITEM NO. | DESCRIPTION | MATERIAL | QTY. |
|----------|-----------------|---------------------|------|
| 1 | M16 HDG BOLT | GRADE 8.8 | 1 |
| 2 | M16 HDG WASHER | MILD STEEL | 1 |
| 3 | M16 HDG NUT | GRADE 181 | 1 |
| 4 | SPLIT PIN | 316 STAINLESS STEEL | 1 |
| 5 | AGS STRAP | ALUMINIUM | 1 |
| 6 | NEOPRENE INSERT | NEOPRENE | 1 |
| 7 | AGS HOUSING | ALUMINIUM | 1 |
| 8 | AGS RODS | ALUMINIUM | 1 |

Assembling Guideline

1. Fit two halves neoprene insert over conductor, centering correctly, over previously plumbed centre mark on conductor, and apply tape over centre of insert halves to hold them together. Ensure that joining line of insert is in the Horizontal plane.
2. Centre the AGS rods over the inserts preferably over the centre of one half and lay sufficient pitches of the rod, both sides of the insert, to ensure it will stay on the conductor. Do not distort rods
3. The curvature of the rod should follow the contours of the insert faithfully. The rods must not be wrapped round the insert.
4. Using a similar procedure apply the second rod opposite the first rod. The third and fourth rods should be applied at the midpoint of the first two then apply all the remaining rods ensuring that non cross
5. Snap the loose ends of all rods into position on the conductor.
6. Place the two halves of the AGS Housing on either side of the centre of the rods and insert assembly and slide the strap over the housings using the heel of the hand tap it firmly into position. Do not use tools to hammer the strap.
7. Spread the ears of housing and tap the strap into place again.
8. Apply the bolt and tighten the nut just sufficiently. Do not over-tighten. The bolt is applied so that the head is always on the outside of the centre line of the overhead line

NOTES

With AGS units for larger conductors it is recommended that, because of the stiffness of the material, the rods are fully applied under operation 2.

Remember that the AGS unit is designed to be free of corona emission at operating voltage and ensure that his capability is not lost. All components and rods must at all times be properly handled and not scored or damaged in any way by rough handling or use of tools for any purpose other than to tighten nuts. In certain applications "corona bells might be necessary it is therefore essential that your requirements are discussed with PLP.



ARMOR-GRIP® Support

ARMOR-GRIP® Support, intended for use on aluminium based conductors with a diameter range of 9.9mm to 46mm is designed to be used with clamp-top horizontal and vertical line post insulators. ARMOR-GRIP® Support is designed to reduce static and dynamic stress at the support point, so that the conductor is better able to withstand the effects of vibration than with armor-grip clamp attachments. It also helps protect the conductor in the support area against flashover.

DESIGN MODIFICATION

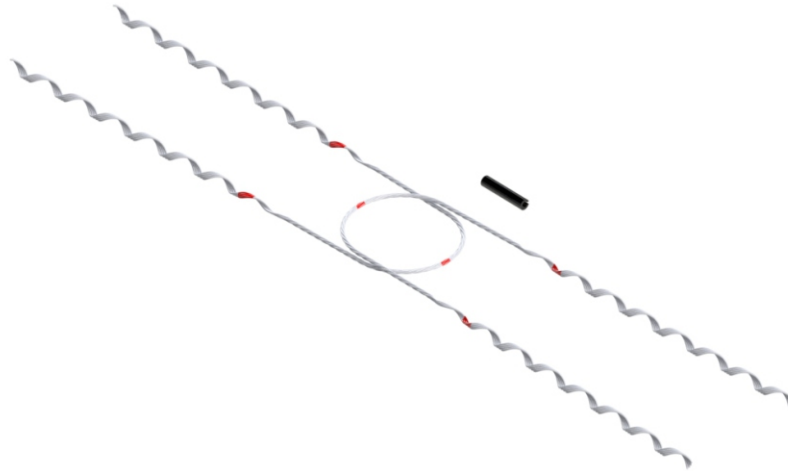
- ARMOR-GRIP® Support for line repair. For repair of fatigue damaged conductors, a special designed ARMOR-GRIP® Support can be applied over PREFORMED™ type armor rods to extend the life of the conductor. Wrench formed rods must be removed when conductor fatigue occurs under them. A splice is then applied to the fatigue area and the ARMOR-GRIP® Support is applied over the splice. this type of application require special consideration and PLP should be consulted for a technical evaluation.
- EHV applications. To meet the corona onset and RIV requirements for most extra high voltage applications, Parrot Bill® ends are to be used instead of standard rods. Consult PLP for EHV engineering recommendations.

INSTALLATION GUIDELINES

1. Conductor compatibility. ARMOR-GRIP® Support should be used only on the size and type of conductor for which they are designed. ARMOR-GRIP® Support is designed for right-hand lay conductor. Consult PLP when using types and/or sizes of conductor not mentioned on the catalogue pages.
2. During installation of the ARMOR-GRIP® Support keeper to the body, the cap screw should be tightened only until the lockwasher is flat. A relatively low torque value of approximately 10 to 15 foot pounds is sufficient to flatten to washer. The inherent gripping of the rods provides the majority of the unbalanced holding strength of the unit. Further tightening may damage the keeper of the body.
3. Consult the ARMOR-GRIP® Support Application Procedure for additional information regarding the correct installation of ARMOR-GRIP Support.
4. ARMOR-GRIP Support rods are not interchangeable with either standard armor rods or ARMOR-GRIP® Suspension rods.

Specifications

| Conductor Ranges (mm) | A | B | C | D | E | F | G | H | I |
|-----------------------|-------|-------|------|-------|------|------|------|------|------|
| 9.91 - 12.22 | 64.3 | 16 | 19.4 | 49.6 | 15.1 | 50.8 | 19.1 | 98.4 | 19.1 |
| 12.24 - 13.77 | 76.2 | 16 | 25.4 | 60.3 | 15.1 | 50.8 | 19.1 | 98.4 | 19.1 |
| 13.79 - 15.72 | 79.4 | 10.3 | 22.2 | 64.3 | 15.1 | 50.8 | 19.1 | 98.4 | 19.1 |
| 15.75 - 16.38 | 79.4 | 10.3 | 22.2 | 64.3 | 15.1 | 50.8 | 19.1 | 97.4 | 19.1 |
| 16.41 - 19.05 | 95.25 | 16 | 21.0 | 69.9 | 15.1 | 50.8 | 19.1 | 98.4 | 19.1 |
| 19.08 - 23.04 | 114.3 | 19.1 | 21.4 | 81.4 | 15.1 | 57.2 | 19.1 | 98.4 | 19.1 |
| 23.06 - 25.52 | 127 | 28.6 | 16.7 | 91.3 | 15.1 | 57.2 | 19.1 | 98.4 | 19.1 |
| 25.56 - 30.68 | 139.7 | 33.3 | 20.6 | 106.4 | 15.1 | 57.2 | 19.1 | 98.4 | 19.1 |
| 30.71 - 34.42 | 152.4 | 37.1 | 20.6 | 117.5 | 15.1 | 57.2 | 19.1 | 98.4 | 19.1 |
| 34.44 - 39.55 | 165.1 | 41.3 | 23.0 | 129.8 | 15.1 | 57.2 | 19.1 | 98.4 | 19.1 |
| 39.57 - 46.43 | 177.8 | 177.8 | 19.4 | 137.3 | 15.1 | 57.2 | 19.1 | 98.4 | 19.1 |



TWIN-TIES

TWIN-TIES are intended for use in securing conductors to the top groove of insulators, the neck configuration of which may not be suitable for WRAPLOCK or DISTRIBUTION-TIES. Twin-Ties provide an improved method of securing conductors when compared to hand-binding or insulator clamps. Protection is provided against conductor abrasion, as occurs with hand-binding, and they provide better RIV characteristics. The pad provides protection for the conductor against abrasion.

FEATURES AND BENEFITS

- Twin-Ties are made of material compatible with the conductor to which they will be applied.
- Only the section applied to the conductor is helical, the remainder is cabled to ensure a snug firm fit on the insulator.
- For bare conductor a tubular elastomeric pad is supplied which must be placed under the conductor in the top groove of the insulator. The pad is not required with jacketed conductor.
- The lay direction of the tie must be the same as that of the conductor.
- Twin-Ties will perform well on any vertically mounted insulator with a neck groove diameter exceeding 15mm, but is designed to especially to cater for insulators with a shallow lip at the groove.
- Twin-Ties will permit controlled movement of the conductor reducing load on the base of the insulator.

Aluminium Alloy Twin-Ties

Specifications

| Cat.No. | Conductor Range(mm) | Conductor Strand | Rod Colour Code |
|--------------|---------------------|------------------|-----------------|
| ATT 249-73F | 6.18 - 6.33 | 6/1/2.11 | Orange |
| ATT 255-73F | 6.34 - 6.65 | - | Green |
| ATT 270-73F | 6.66 - 6.99 | - | Black |
| ATT 280-73F | 7 - 7.27 | 6/1/2.36 | Yellow |
| ATT 300-73F | 7.28 - 7.74 | - | Red |
| ATT 310-73F | 7.75 - 8.23 | 6/1/2.59 | Brown |
| ATT 330-73F | 8.24 - 8.67 | 6/1/2.79 | Blue |
| ATT 348-73F | 8.68 - 9 | - | Green |
| ATT 354-73F | 9.01 - 9.34 | 6/1/3.30 | Orange |
| ATT 366-73F | 9.35 - 9.65 | - | Black |
| ATT 396-73F | 9.66 - 10.3 | 6/1/3.35 | Yellow |
| ATT 415-73F | 10.31 - 10.79 | - | White |
| ATT 432-73F | 10.8 - 10.98 | - | Red |
| ATT 472-73F | 10.98 - 11.7 | - | Blue |
| ATT 490-73F | 11.7 - 12.51 | - | Green |
| ATT 522-73F | 12.52 - 13.3 | - | Orange |
| ATT 558-73F | 13.31 - 14.2 | 6/1/4.72 | Brown |
| ATT 595-73F | 14.21 - 15.2 | - | Black |
| ATT 625-73F | 15.2 - 15.9 | 19/3.18 | Orange |
| ATT 650-73F | 15.91 - 17 | - | Red |
| ATT 700-73F | 17.01 - 18.12 | - | Yellow |
| ATT 714-73F | 18.13 - 18.5 | 30/7/2.59 | White |
| ATT 740-73F | 18.51 - 19.6 | 18/1/3.77 | Red |
| ATT 805-73F | 19.61 - 21.3 | 30/7/2.79 | Green |
| ATT 850-73F | 21.31 - 22.31 | 30/7/3.00 | Black |
| ATT 924-73F | 22.89 - 24.33 | 30/7/3.35 | Orange |
| ATT 1022-73F | 24.34 - 25.95 | 37/3.78 | Black |

RIGHT HAND LAY STANDARD. ALWAYS QUOTE INSULATOR TYPE AND NECK DIAMETER.

Copper Alloy Twin-Ties

Specifications

| Cat.No. | Conductor Range(mm) | Rod Colour Code |
|-------------|---------------------|-----------------|
| CTT 260-73F | 6.29 - 6.79 | Yellow |
| CTT 280-73F | 6.8 - 7.29 | White |
| CTT 300-73F | 7.3 - 7.89 | Brown |
| CTT 320-73F | 7.9 - 8.26 | Blue |
| CTT 340-73F | 8.27 - 8.79 | Black |
| CTT 360-73F | 8.8 - 9.29 | Red |
| CTT 380-73F | 9.3 - 9.89 | Orange |
| CTT 400-73F | 9.9 - 10.44 | Green |
| CTT 440-73F | 10.45 - 11.24 | Blue |
| CTT 460-73F | 11.25 - 11.79 | White |
| CTT 480-73F | 11.8 - 12.59 | Brown |
| CTT 500-73F | 12.6 - 13.5 | Red |

RIGHT HAND LAY STANDARD. ALWAYS QUOTE INSULATOR TYPE AND NECK DIAMETER.



ARMORED ROAD CROSSING TWIN-TIES

The Armored Road Crossing Twin-Tie was developed and tested in conjunction with a major electricity supply authority and the original concept approved by the Department of Machinery and Occupational Safety. It fully protects the conductor either side of the insulator top at road crossings.

FEATURES AND BENEFITS

Photographic evidence of insulator flashovers, under laboratory conditions, carried out in the U.S.A. by our principals clearly illustrated that when PLP insulator ties were used the flashover occurred mainly on the tie. The conductor was not involved, and was protected by the PLP tie.

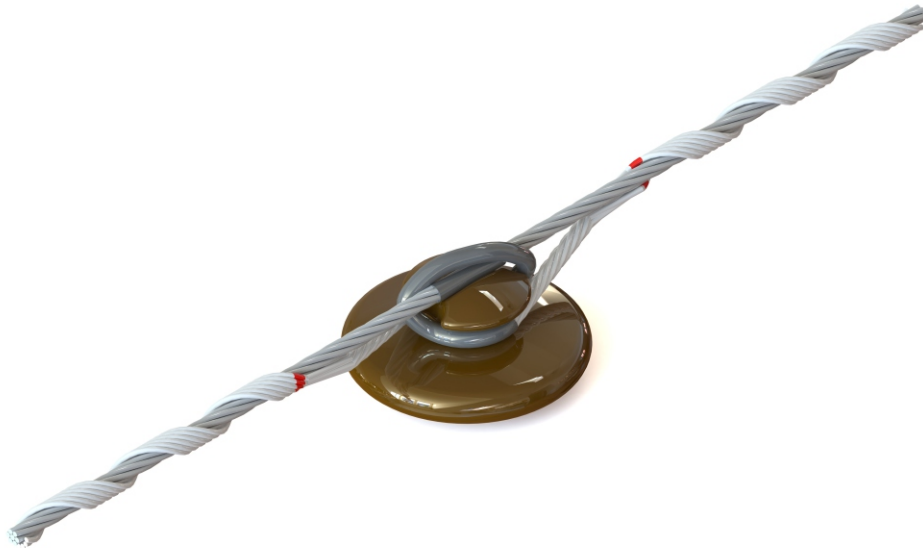
Field tests subsequently carried out proved conclusively that the PLP Road Crossing Tie met the statutory requirements.

Armored Road Crossing Twin-Tie

Specifications

| Cat.No. | Conductor Range(mm) | Conductor Strand | Rod Colour Code |
|-------------|---------------------|------------------|-----------------|
| ART 249-73F | 6.18 - 6.34 | 6/1/2.11 | Orange |
| ART 255-73F | 6.35 - 6.60 | - | Green |
| ART 270-73F | 6.61 - 7.00 | - | Black |
| ART 280-73F | 7.01 - 7.40 | 6/1/2.36 | Yellow |
| ART 300-73F | 7.41 - 7.84 | - | Brown |
| ART 311-73F | 7.85 - 8.26 | - | Red |
| ART 330-73F | 8.27 - 8.64 | 6/1/2.79 | Blue |
| ART 348-73F | 8.65 - 9.00 | - | Green |
| ART 354-73F | 9.01 - 9.34 | - | Orange |
| ART 366-73F | 9.35 - 9.65 | - | Black |
| ART 396-73F | 9.66 - 10.40 | 6/1/3.35 | Yellow |
| ART 432-73F | 10.41 - 11.30 | - | Red |
| ART 472-73F | 11.31 - 12.10 | - | Blue |
| ART 480-73F | 12.11 - 12.41 | - | Green |
| ART 520-73F | 12.42 - 13.51 | 7/4.65 | Orange |
| ART 558-73F | 13.52 - 14.19 | 6/1/4.72 | Brown |
| ART 595-73F | 14.20 - 15.20 | - | Black |
| ART 625-73F | 15.21 - 16.24 | - | Orange |
| ART 645-73F | 16.25 - 17.39 | - | Red |
| ART 700-73F | 17.40 - 18.12 | - | Yellow |
| ART 714-73F | 18.13 - 18.79 | - | White |
| ART 740-73F | 18.80 - 19.30 | - | Red |

RIGHT HAND LAY STANDARD.



WRAPLOCK® TIE

WRAPLOCK® TIES secure conductors in the top groove of interchangeable head-style insulators. They provide an improved method of securing conductor compared to clamp-top insulators or hand ties over Armor Rods.

WRAPLOCK Ties provide superior abrasion protection for the conductor under all types of motion, including low frequency sway oscillation and high frequency aeolian vibration, and galloping.

FEATURES AND BENEFITS

- Superior abrasion protection for the conductor under all types of motion.
- Provides superior protection by eliminating abrasion.
- Elastomer component surrounds the bare conductor with a resilient cushion.
- The Neoprene pad which is a slit tube is applied around the bare conductor to provide a cushion between the conductor and the insulator groove surface.
- The Neoprene cover center section with the pad surrounds the conductor in a neoprene protective layer.



Moderate Vibration:

Areas where replacement of hand-tie wire has not been required, and damage is minor. WRAPLOCK® Ties provide protection in areas of severe or moderate vibration. For areas experiencing excessive vibration supplemental use of damper is recommended. Spiral Vibration Damper's single purpose is to prevent the unlimited accumulation of aeolian vibration.

Insulators:

WRAPLOCK® Ties are suitable for use on only those insulators which correspond to C-neck, F-neck, H-neck, and J-neck designs. When an insulator is not suited to the WRAPLOCK® Tie, then the TWIN-Ties can be used. Consult the factory for engineering recommendation when in doubt..

Conductor Size:

Conductor sizes up to 31.50mm O.D. can be accommodated depending on the insulator's top groove radius. In cases of doubt consult PLP for recommendations.

Mechanical Strength:

Maximum holding strength is usually sufficient to contain the broken conductor to a single span, however the WRAPLOCK® Tie is designed to relieve the load before severe damage is done to the pole's structural components.

The WRAPLOCK® Tie is designed to permit controlled movement of unbroken conductor, reducing cantilever loading at the base of the insulator or bracket, then restore itself. We refer to this unique feature as "resilience".

Radio Interference:

The RIV characteristics of the WRAPLOCK® Tie are equivalent to those of a well-made hand tie when originally installed. During service life the precontoured Tie assures continued fit which would have better RIV than a loosened tie wire.

Line Angles:

On vertically-mounted insulators, WRAPLOCK® Tie are recommended for running line angles up to 10 degree.

Double Support:

At double cross-arms PREFORMED™ Double-Support Ties can be used to cross major highways and railroad, or turn angles where it is practical to hold the conductor in the top groove during installation.

Aluminium Alloy WRAPLOCK® TIES

Specifications

| Cat.No. | Conductor Range(mm) | Colour Strand | Rod Colour Code |
|-------------|---------------------|---------------|-----------------|
| AWT 249-73F | 6.18 - 6.34 | - | Orange |
| AWT 255-73F | 6.35 - 6.60 | 3/42.11 | Green |
| AWT 270-73F | 6.61 - 7.00 | - | Black |
| AWT 280-73F | 7.01 - 7.40 | 6/1/2.36 | Yellow |
| AWT 300-73F | 7.41 - 7.90 | 6/1/2.59 | Brown |
| AWT 310-73F | 7.91 - 8.30 | - | Red |
| AWT 330-73F | 8.31 - 8.84 | 6/1/2.79 | Blue |
| AWT 366-73F | 8.85 - 9.70 | - | Green |
| AWT 396-73F | 9.71 - 10.70 | 6/1/3.35 | Yellow |
| AWT 432-73F | 10.71 - 11.30 | - | Red |
| AWT 472-73F | 11.31 - 12.10 | 7/4.04 | Blue |
| AWT 480-73F | 12.11 to 12.40 | 6/1.4.09 | Green |
| AWT 520-73F | 12.41 - 13.51 | 7/4.39 | Orange |
| AWT 558-73F | 13.52 - 14.70 | - | Brown |
| AWT 625-73F | 14.71 - 16.00 | 19/3.18 | Orange |
| AWT 650-73F | 16.01 - 17.39 | 19/3.25 | Red |
| AWT 700-73F | 17.40 - 18.12 | - | Yellow |
| AWT 714-73F | 18.13 - 18.79 | - | White |
| AWT 740-73F | 18.80 - 19.29 | - | Red |

Copper Alloy WRAPLOCK® TIES

| Cat.No. | Conductor Range(mm) | Rod Colour Code |
|-------------|---------------------|-----------------|
| CWT 224-73F | 5.6 - 5.6 | Blue |
| CWT 260-73F | 6.4 - 6.79 | Yellow |
| CWT 280-73F | 6.8 - 7.34 | White |
| CWT 300-73F | 7.35 - 7.79 | Brown |
| CWT 320-73F | 7.8 - 8.39 | Blue |
| CWT 340-73F | 8.4 - 8.99 | Black |
| CWT 370-73F | 9 - 9.69 | Red |
| CWT 400-73F | 9.7 - 10.49 | Orange |
| CWT 430-73F | 10.5 - 11.29 | Green |
| CWT 460-73F | 11.3 - 12.19 | Blue |
| CWT 500-73F | 12.2 - 13.2 | White |



SIDE AND SPOOL TIES

Side-Ties are designed to permit controlled movement of unbroken conductor, reducing cantilever loading at the base of the insulator or bracket, then restore itself. We refer to this feature as “resilience”.

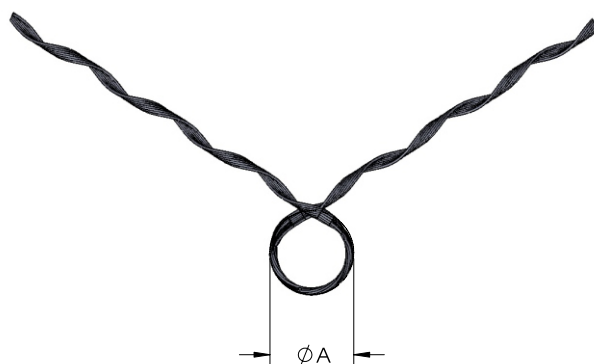
Side Ties are suitable for use on only those insulators which correspond to C-neck, F-neck and H-neck designs.

Side Tie is recommended as being superior to Armor-Rod - Hand tie combinations for protection against abrasion damage.

FEATURES AND BENEFITS

- Provides superior protection by eliminating abrasion rather than sacrificing outside surfaces to abrasion.
- The Groove-formed design broadens conductor diameter ranges, matching Distribution Tie.
- The formed loop section permits better utilisation of insulator groove space so that larger conductors can be accommodated on a given insulator.
- Provides superior abrasion protection for the conductor under all types of motion.
- Tube component surrounds the bare conductor with a resilient cushion where the conductor would come into contact with the insulator.

Side and Spool Ties



Moderate Vibration:

Areas where replacement of hand-tie wire has not been required, and damage is minor. Side-Ties provide protection in areas of severe or moderate vibration. For areas experiencing excessive vibration supplemental use of damper is recommended. Spiral Vibration Damper's single purpose is to prevent the unlimited accumulation of aeolian vibration.

Insulators:

Side Ties are suitable for use on only those insulators which correspond to C-neck, F-neck, and H-neck designs. When an insulator is not suited to the WRAPLOCK® Tie, then the TWIN-Ties can be used. Consult the factory for engineering recommendation when in doubt..

Conductor Size:

Conductor sizes up to 31.50mm O.D. can be accommodated depending on the insulator's top groove radius. In cases of doubt consult PLP for recommendations.

Mechanical Strength:

Maximum holding strength is usually sufficient to contain the broken conductor to a single span, however the WRAPLOCK® Tie is designed to relieve the load before severe damage is done to the pole's structural components.

The WRAPLOCK® Tie is designed to permit controlled movement of unbroken conductor, reducing cantilever loading at the base of the insulator or bracket, then restore itself. We refer to this unique feature as "resilience".

Radio Interference:

The RIV characteristics of the Side Tie are equivalent to those of a well-made hand tie when originally installed. During service life the precontoured Tie assures continued fit which would have better RIV than a loosened tie wire.

Line Angles:

On vertically-mounted insulators, Side Tie are recommended for running line angles up to 10 degree.

Tapping:

Compared to the use of protective rods, placing hot-line clamps directly over the applied leg of the Side-Ties cannot be recommended. Yapping over protective rods will remain

Side and Spool Tie

Specifications

| Cat.No. | Conductor Range(mm) | Colour Strand | Rod Colour Code |
|-------------|---------------------|---------------|-----------------|
| CST 200-73F | 5.05 - 5.26 | - | Orange |
| CST 210-73F | 5.27 - 5.51 | - | Blue |
| CST 220-73F | 5.52 - 5.77 | - | Red |
| CST 230-73F | 5.78 - 6.02 | 6/1/2.36 | Black |
| CST 240-73F | 6.03 - 6.27 | 6/1/2.59 | Yellow |
| CST 250-73F | 6.28 - 6.59 | - | White |
| CST 260-73F | 6.6 - 6.85 | 6/1/2.79 | Orange |
| CST 270-73F | 6.86 - 7.13 | - | Blue |
| CST 280-73F | 7.14 - 7.39 | 6/1/3.35 | Red |
| CST 300-73F | 7.4 - 7.7 | - | Black |
| CST 310-73F | 7.71 - 7.99 | 7/4.04 | Yellow |
| CST 320-73F | 8 - 8.31 | 6/1.4.09 | White |
| CST 330-73F | 8.32 - 8.65 | 7/4.39 | Orange |
| CST 354-73F | 8.66 - 8.99 | - | Blue |
| CST 360-73F | 9 - 9.32 | 19/3.18 | Red |
| CST 370-73F | 9.33 - 9.69 | 19/3.25 | Black |
| CST 390-73F | 9.7 - 10 | - | Yellow |
| CST 400-73F | 10.01 - 10.44 | - | White |
| CST 420-73F | 10.45 - 11.1 | - | Orange |
| CST 450-73F | 11.11 - 11.76 | 19/3.25 | Blue |
| CST 480-73F | 11.77 - 12.69 | - | Red |
| CST 510-73F | 12.7 - 13.91 | - | Black |
| CST 570-73F | 13.92 - 15 | - | Yellow |

Galvanised Steel Side & Spool Ties for Aluminium based Conductors

Specifications

| Cat.No. | Conductor Range(mm) | Colour Strand | Colour Code |
|--------------|---------------------|---------------|-------------|
| GSST 249-73F | 6.24 - 6.34 | 7/2.08 | Orange |
| GSST 255-73F | 6.35 - 6.6 | 3/4/2.11 | Green |
| GSST 270-73F | 6.61 - 7 | - | Black |
| GSST 280-73F | 7.01 - 7.7 | - | Yellow |
| GSST 300-73F | 7.71 - 8.29 | 6/1/2.59 | Brown |
| GSST 330-73F | 8.3 - 8.84 | 6/1/2.79 | Blue |
| GSST 366-73F | 8.85 - 9.6 | - | Green |
| GSST 396-73F | 9.61 - 10.2 | 6/1/3.35 | Yellow |
| GSST 432-73F | 10.21 - 10.99 | 7/3.61 | Red |
| GSST 472-73F | 11 - 11.72 | 6/1/3.99 | Blue |
| GSST 480-73F | 11.73 -12.6 | - | Green |
| GSST 520-73F | 12.61 - 13.7 | - | Orange |
| GSST 558-73F | 13.71 - 14.7 | 7/4.65 | Brown |
| GSST 595-73F | 14.71 - 16 | - | Orange |
| GSST 650-73F | 16.01 - 16.91 | 19/3.25 | Red |
| GSST 700-73F | 16.92 - 17.93 | - | Yellow |
| GSST 714-73F | 17.93 - 18.79 | 30/7/2.59 | White |
| GSST 750-73F | 18.8 - 20 | - | Red |
| GSST 842-73F | 20.01 - 21.9 | - | Brown |
| GSST 943-73F | 22 - 24 | 30/7/3.35 | Orange |



ARMOR RODS

PLP Armor Rods are intended to protect against bending, compression, abrasion, and arc-over, and to provide repair. The degree of protection needed on specific line depends on a number of factors such as line design, temperature, tension, and exposure to wind flow, and vibration history on similar construction in the same area. Armor Rods are also used to repair damaged aluminum-based conductors and restore the conductors' mechanical strength and conductivity. Armor Rods are recommended as minimum protection for bolted clamp-type supports or suspensions. Armor Rods are recommended as minimum protection for use with hand-tie spans of 90 meters or more.

FEATURES AND BENEFITS

- Single and Double Support lengths available
- Thermal Rating (Continuous) Within a high temperature Suspension Clamp 250°C, ACSR repair 250°C, ACSR repair 125°C.
- Available PARROT-BILL ends to meet the corona onset and RIV requirements for most EHV applications.
- Armor Rods may be used to restore full conductance and strength to ACSR and aluminium conductors where the damage does not exceed approximately 50 percent of the outer strand layers. Consult PLP for repair capability of specific stranding.

Aluminium Alloy Armor Rods

Specifications

| Cat.No. | Conductor Range(mm) | Colour Code | Conductor Code |
|----------|---------------------|-------------|----------------|
| AAR 194 | 4.93 - 5.26 | Blue | Batman |
| AAR 215 | 5.27 - 5.7 | Brown | - |
| AAR 230 | 5.71 - 6.14 | White | - |
| AAR 249 | 6.15 - 6.34 | Orange | Squirrel |
| AAR 255 | 6.35 - 6.6 | Green | - |
| AAR 270 | 6.61 - 7 | Black | - |
| AAR 280 | 7.01 - 7.4 | Yellow | Gopher |
| AAR 300 | 7.41 - 7.84 | Brown | - |
| AAR 311 | 7.85 - 8.26 | Red | - |
| AAR 330 | 8.27 - 8.64 | Blue | Fox |
| AAR 348 | 8.65 - 9.15 | Green | - |
| AAR 366 | 9.16 - 9.65 | Orange | - |
| AAR 396 | 9.66 - 10.4 | Yellow | - |
| AAR 432 | 10.41 - 11.2 | Red | Pine & Mink |
| AAR 472 | 11.21 - 12.1 | Blue | - |
| AAR 480 | 12.11 - 12.99 | Green | Beaver |
| AAR 520 | 13 - 13.94 | Orange | - |
| AAR 558 | 13.95 - 14.7 | Brown | Oak & Hare |
| AAR 595 | 14.71 - 15.7 | Blue | - |
| AAR 625 | 15.71 - 16.24 | Orange | - |
| AAR 650 | 16.25 - 17.39 | Red | Tiger |
| AAR 700 | 17.39 - 18.12 | Yellow | Ash |
| AAR 714 | 18.13 - 18.7 | White | Wolf |
| AAR 740 | 18.71 - 19.5 | Red | Chickadee/ELM |
| AAR 780 | 19.51 - 20.5 | Black | Poplar |
| AAR 825 | 20.51 - 21.4 | Green | - |
| AAR 850 | 21.5 - 22.99 | Red | Sycamore |
| AAR 918 | 23 - 23.61 | Orange | Bear/Dove |
| AAR 950 | 23.62 - 24.79 | Green | Upas/Kingbird |
| AAR 995 | 24.8 - 25.85 | White | - |
| AAR 1022 | 25.83 - 26.99 | Black | - |
| AAR 1036 | 27 - 27.89 | Blue | Centipede/Tern |
| AAR 1099 | 27.9 - 29.49 | Yellow | Zebra |
| AAR 1162 | 29.5 - 30.69 | Red | 11 |

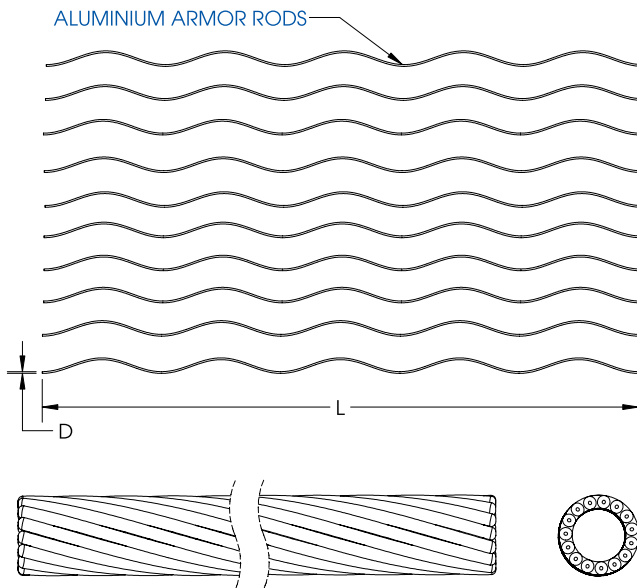
RIGHT HAND LAY STANDARD. ALWAYS QUOTE INSULATOR TYPE AND NECK DIAMETER.

Aluminium Alloy Armor Rods

Specifications

| Cat.No. | Conductor Range(mm) | Colour Code | Conductor Code |
|----------|---------------------|-------------|----------------|
| AAR 1209 | 30.7 - 32.19 | Green | - |
| AAR 1270 | 32.2 - 33.7 | Black | - |
| AAR 1350 | 33.71 - 35.32 | Brown | - |
| AAR 1400 | 35.33 - 36.59 | White | Dinosaur |
| AAR 1470 | 36.6 - 38.3 | Red | - |

RIGHT HAND LAY STANDARD. ALWAYS QUOTE INSULATOR TYPE AND NECK DIAMETER.



Copper Alloy Armor Rods

Specifications

| Cat.No. | Conductor Range(mm) | Colour Code |
|----------|---------------------|-------------|
| CAR 315 | 8 - 8.47 | Yellow |
| CAR 334 | 8.48 - 8.96 | White |
| CAR 353 | 8.97 - 9.46 | Red |
| CAR 373 | 9.47 - 9.97 | Blue |
| CAR 393 | 9.98 - 10.38 | Green |
| CAR 408 | 10.39 - 10.81 | Orange |
| CAR 426 | 10.82 - 11.45 | Yellow |
| CAR 460 | 11.46 - 12.11 | Brown |
| CAR 480 | 12.12 - 12.82 | Black |
| CAR 510 | 12.83 - 13.58 | Orange |
| CAR 558 | 13.59 - 14.37 | Red |
| CAR 570 | 14.38 - 15.05 | Yellow |
| CAR 590 | 15.06 - 15.89 | White |
| CAR 630 | 15.9 - 16.93 | Red |
| CAR 670 | 16.94 - 17.82 | Green |
| CAR 710 | 17.83 - 18.68 | Brown |
| CAR 736 | 18.69 - 19.5 | Blue |
| CAR 768 | 19.51 - 20.28 | White |
| CAR 835 | 20.29 - 21.38 | Red |
| CAR 850 | 21.39 - 22.62 | Orange |
| CAR 900 | 22.63 - 23.89 | Green |
| CAR 940 | 23.9 - 25.29 | Black |
| CAR 996 | 25.3 - 26.81 | Blue |
| CAR 1056 | 26.82 - 28.46 | Yellow |
| CAR 1121 | 28.47 - 30.14 | Green |
| CAR 1187 | 30.15 - 31.97 | red |
| CAR 1259 | 31.98 - 33.9 | Orange |
| CAR 1335 | 33.91 - 36 | White |

RIGHT HAND LAY STANDARD.

Galvanised Steel Armor Rods

Specifications

| Cat.No. | Conductor Range(mm) | Colour Code |
|---------|---------------------|-------------|
| SAR 135 | 3.43 - 3.60 | Brown |
| SAR 142 | 3.61 - 3.83 | Blue |
| SAR 151 | 3.84 - 4.08 | White |
| SAR 161 | 4.09 - 4.36 | Orange |
| SAR 172 | 4.37 - 4.61 | Blue |
| SAR 182 | 4.62 - 4.92 | Red |
| SAR 194 | 4.93 - 5.27 | Yellow |
| SAR 208 | 5.28 - 5.60 | Green |
| SAR 221 | 5.61 - 5.81 | Purple |
| SAR 229 | 5.82 - 6.19 | Orange |
| SAR 244 | 6.20 - 6.59 | Green |
| SAR 260 | 6.60 - 6.95 | White |
| SAR 274 | 6.96 - 7.36 | Blue |
| SAR 284 | 7.37 - 7.84 | Black |
| SAR 309 | 7.85 - 8.30 | Brown |
| SAR 327 | 8.31 - 8.80 | Blue |
| SAR 347 | 8.81 - 9.49 | Orange |
| SAR 374 | 9.50 - 9.90 | Black |
| SAR 396 | 9.91 - 10.51 | Blue |
| SAR 414 | 10.52 - 11.09 | Brown |
| SAR 437 | 11.10 - 11.78 | Red |
| SAR 464 | 11.79 - 12.46 | Green |
| SAR 491 | 12.47 - 13.25 | Blue |
| SAR 520 | 13.26 - 14.01 | Orange |



LINE GUARDS-(PROTECTOR RODS)

PLP Line Guards are intended to protect against abrasion and arc-over, and to provide repair. The degree of protection needed on specific line depends on a number of factors such as line design, temperature, tension, and exposure to wind flow, and vibration history on similar construction in the same area. Line Guards are recommended as minimum protection for hand-tied spans of less than 90 meters in urban construction having no experience of vibration.

FEATURES AND BENEFITS

- Single Support and Double Support Lengths
- Protect against chafing or wear caused by wind sway or unbalanced loading
- Stronger material and greater uniformity than had tie wire
- Line Guards may be used as tap armour to protect conductors from wear and flash-over damage under hot line taps.

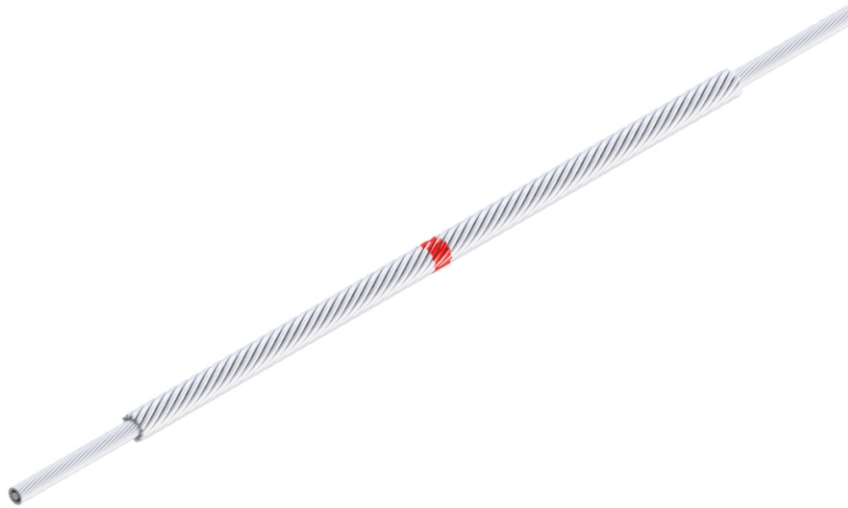


Aluminium Alloy Line Guards

Specifications

| Catalog Numbers | Cond. Diam. | Colour Code | Rods per Set | Length of Fitting(mm) |
|-----------------|----------------|-------------|--------------|-----------------------|
| ALG 704-740 | 17.87-18.80 | White | 16 | 940 |
| ALG 741-792 | 18.81-19.86 | Black | 17 | 990 |
| ALG 793-840 | 20.13-21.34 | Brown | 18 | 990 |
| ALG 841-890 | 18.81-20.12 | Red | 19 | 1040 |
| ALG 899-954 | 22.83-24.23 | Orange | 18 | 1090 |
| ALG 955-986 | 24.24-25.04 | Blue | 17 | 1140 |
| ALG 989-1016 | 24.80-25.81 | White | 18 | 1140 |
| ALG 1017-1064 | 27.04-27.27.89 | Black | 17 | 1190 |
| ALG 1065-1098 | 27.90-29.29 | Grey | 16 | 1240 |
| ALG 1099-1153 | 27.90-29.29 | Blue | 15 | 1240 |
| ALG 1154-1208 | 29.30-30.68 | Green | 15 | 1300 |
| ALG 1209-1268 | 30.69-32.21 | Brown | 16 | 1350 |
| ALG 1269-1327 | 32.22-33.71 | Black | 16 | 1350 |
| ALG 1328-1390 | 33.72-35.31 | Grey | 17 | 1400 |
| ALG 1391-1440 | 35.22-36.58 | White | 16 | 1450 |
| ALG 1441-1508 | 36.59-38.30 | Red | 16 | 1500 |
| ALG 1509-1578 | 38.31-40.08 | Green | 16 | 1500 |

RIGHT HAND LAY STANDARD. ALWAYS QUOTE INSULATOR TYPE AND NECK DIAMETER.



LINE SPLICE

Conductor Splices are designed as a single-component outer-layer assembly generally for Sub-EHV applications. To assure a reliable electrical connection, all conductors, new or weathered, must be thoroughly scratch brushed until bright and clean immediately prior to installation.

The application of a quality inhibitor, compatible with the conductor material, is strongly recommended to retard oxidation.

FEATURES AND BENEFITS

- On ACSR conductor the will hold a minimum tension amounting to the full strength of the aluminium strands plus 10% of the steel core strength. Conductance will be better than in an equivalent length of unspliced Conductor.
- On all-aluminium alloy and copper conductors of homogeneous stranding, The Line Splice will hold a minimum of 90% of the rated breaking strength of, and provide better conductance than an equal length of unspliced conductor.
- Other PLP products with restorative-repair capabilities are Armor Rods, Line Guards, Splice Shunt, and ARMOR-GRIP® Suspension: for Line Repair.

Aluminium Alloy Line Splices

Specifications

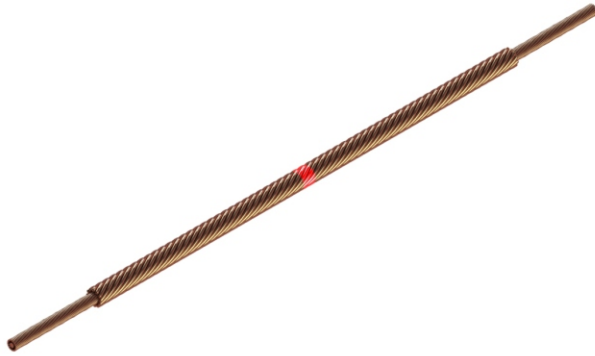
| Cat.No. | Conductor Range(mm) | Colour Code | Rods per Set | Rod Lay Direction |
|----------|---------------------|-------------|--------------|-------------------|
| ALS 249 | 6.18 - 6.34 | Orange | 9 | RH |
| ALS 255 | 6.35 - 6.6 | Green | 9 | RH |
| ALS 270 | 6.61 - 7 | Black | 10 | RH |
| ALS 280 | 7.01 - 7.4 | Yellow | 10 | RH |
| ALS 300 | 7.41 - 7.84 | Brown | 10 | RH |
| ALS 311 | 7.85 - 8.26 | Red | 10 | RH |
| ALS 330 | 8.27 - 8.64 | Blue | 10 | RH |
| ALS 348 | 8.65 - 9.15 | Green | 11 | RH |
| ALS 366 | 9.16 - 9.65 | Black | 11 | RH |
| ALS 396 | 9.66 - 10.4 | Yellow | 11 | RH |
| ALS 432 | 10.41 - 11.2 | Red | 11 | RH |
| ALS 472 | 11.21 - 12.1 | Blue | 11 | RH |
| ALS 480 | 12.11 - 12.99 | Orange | 11 | RH |
| ALS 520 | 13 - 13.94 | Green | 12 | RH |
| ALS 558 | 13.95 - 14.7 | Brown | 11 | RH |
| ALS 595 | 14.71 - 15.7 | Blue | 11 | RH |
| ALS 625 | 15.71 - 16.24 | Orange | 12 | RH |
| ALS 650 | 16.25 - 17.39 | Red | 12 | RH |
| ALS 700 | 17.4 - 18.12 | Yellow | 11 | RH |
| ALS 714 | 18.13 - 18.7 | White | 10 | RH |
| ALS 740 | 18.71 - 19.5 | Red | 11 | RH |
| ALS 780 | 19.51 - 20.5 | Blue | 11 | RH |
| ALS 825 | 20.51 - 21.49 | Green | 11 | RH |
| ALS 850 | 21.5 - 22.69 | Red | 11 | RH |
| ALS 918 | 22.7 - 23.61 | Orange | 12 | RH |
| ALS 950 | 23.62 - 24.79 | Green | 11 | RH |
| ALS 995 | 24.8 - 25.82 | White | 11 | RH |
| ALS 1022 | 25.85 - 26.99 | Black | 11 | RH |
| ALS 1064 | 27 - 27.89 | Blue | 12 | RH |
| ALS 1099 | 27.9 - 29.49 | Yellow | 11 | RH |
| ALS 1162 | 29.5 - 30.69 | Green | 11 | RH |
| ALS 1209 | 30.7 - 32.19 | Orange | 11 | RH |
| ALS 1270 | 31.2 - 32.8 | Black | 11 | RH |
| ALS 1350 | 32.81 - 34.38 | Red | 11 | RH |
| ALS 1400 | 34.39 - 35.79 | White | 11 | RH |

Copper Alloy Line Splices

Specifications

| Cat.No. | Conductor Range(mm) | Colour Code |
|---------|---------------------|-------------|
| CLS 182 | 4.62 - 4.79 | Orange |
| CLS 190 | 4.80 - 4.97 | White |
| CLS 200 | 4.98 - 5.17 | Yellow |
| CLS 210 | 5.18 - 5.37 | Black |
| CLS 218 | 5.38 - 5.55 | Blue |
| CLS 230 | 5.56 - 5.86 | Red |
| CLS 236 | 5.87 - 6.01 | Green |
| CLS 247 | 6.02 - 6.29 | Orange |
| CLS 258 | 6.30 - 6.57 | Yellow |
| CLS 265 | 6.58 - 6.85 | Blue |
| CLS 275 | 6.86 - 7.13 | White |
| CLS 285 | 7.14 - 7.49 | Red |
| CLS 295 | 7.50 - 7.69 | Yellow |
| CLS 310 | 7.70 - 7.79 | Orange |
| CLS 320 | 7.98 - 8.25 | Black |
| CLS 330 | 8.26 - 8.55 | Blue |
| CLS 340 | 8.56 - 8.88 | White |
| CLS 350 | 8.89 - 9.26 | Yellow |
| CLS 370 | 9.27 - 9.64 | Green |
| CLS 390 | 9.65 - 10.02 | Red |
| CLS 400 | 10.03 - 10.49 | Black |
| CLS 415 | 10.50 - 10.84 | Green |
| CLS 435 | 10.85 - 11.59 | Orange |
| CLS 456 | 11.60 - 11.67 | Blue |
| CLS 474 | 11.68 - 12.49 | Green |
| CLS 492 | 12.50 - 12.56 | White |
| CLS 500 | 12.57 - 13.10 | Yellow |
| CLS 525 | 13.11 - 13.63 | Black |
| CLS 555 | 13.64 - 14.11 | Red |
| CLS 570 | 14.12 - 14.49 | White |
| CLS 590 | 14.5 - 15.03 | Orange |
| CLS 612 | 15.04 - 15.56 | Black |
| CLS 635 | 15.57 - 16.09 | Green |

Copper Alloy Line Splices



Specifications

| Cat.No. | Conductor Range(mm) | Colour Code |
|---------|---------------------|-------------|
| CLS 660 | 16.1 - 16.8 | Blue |
| CLS 680 | 16.81 - 17.44 | Yellow |
| CLS 700 | 17.45 - 18.1 | Red |
| CLS 740 | 18.11 - 18.84 | Black |
| CLS 770 | 18.85 - 19.62 | Orange |
| CLS 800 | 19.63 - 20.34 | White |
| CLS 827 | 20.35 - 20.54 | Green |

Galvinised Steel Line Splices

Specifications

| Cat.No. | Conductor Range(mm) | Colour Code |
|---------|---------------------|-------------|
| SLS 104 | 2.54 - 2.64 | Brown |
| SLS 108 | 2.65 - 2.85 | Green |
| SLS 125 | 2.86 - 3.3 | Red |
| SLS 144 | 3.31 - 3.66 | Brown |
| SLS 150 | 3.67 - 4 | White |
| SLS 167 | 4.01 - 4.41 | Orange |
| SLS 175 | 4.42 - 4.82 | Blue |
| SLS 192 | 4.83 - 5.31 | Yellow |
| SLS 224 | 5.32 - 5.75 | Green |
| SLS 240 | 5.76 - 6.2 | Orange |
| SLS 250 | 6.21 - 6.89 | Green |
| SLS 284 | 6.9 - 7.32 | Black |
| SLS 312 | 7.65 - 8.05 | Brown |
| SLS 338 | 8.06 - 8.59 | Blue |
| SLS 352 | 8.6 - 8.93 | Yellow |
| SLS 370 | 8.94 - 9.68 | Orange |
| SLS 384 | 9.68 - 10.03 | Black |
| SLS 396 | 10.04 - 10.62 | Blue |
| SLS 432 | 110.63 - 11.13 | Brown |
| SLS 452 | 11.13 - 11.83 | Red |
| SLS 472 | 11.84 - 12.17 | Green |
| SLS 490 | 12.18 - 12.94 | Blue |
| SLS 520 | 12.95 - 13.59 | Orange |



FULL TENSION LINE SPLICE

ACSR Full Tension Splices are Designed as a three component assembly generally for Sub-EHV applications. This splice is recommended when damage to the core itself is suspected, or when joining ACSR.

FEATURES AND BENEFITS

- Restores original conductivity and full rated breaking strength to ACSR conductor.
- This splice will hold the full rated breaking strength of, and provide better conductivity than, an equal length of unspliced ACSR.
- All conductors, new or weathered, must be thoroughly wire brushed before the fitting is applied.

Aluminium Alloy Full Tension Splices

Specifications

| Cat.No. | Conductor Code | Colour Code | Conductor Strand |
|---------------------|----------------|-------------|-------------------|
| ALSFT-249-SQR | Squirrel | Orange | 6/1/2.11 |
| ALSFT-280-GPR | Gopher | Yellow | 6/1/2.36 |
| ALSFT-330-FOX | Fox | Blue | 6/1/2.79 |
| ALSFT-396-RBT | Rabbit | Yellow | 6/1/3.35 |
| ALSFT-432-MNK | Mink | Red | 6/1/3.66 |
| ALSFT-471-BVR | Beaver | Green | 6/1/3.99 |
| ALSFT-483-RCN | Raccoon | Green | 6/1/4.04 |
| ALSFT-510-SKU | Skunk | Orange | 12/7/2.59 |
| ALSFT-557-DOG | Dog | Brown | 6/4.72 + 7/1.57 |
| ALSFT-558-HRE | Hare | Brown | 6/1/4.72 |
| ALSFT-606-AC/120/27 | AC 120/27 | Orange | - |
| ALSFT-624-LPD | Leopard | Orange | 6/5.28 + 7/1.75 |
| ALSFT-651-TGR | Tiger | Red | 30/7/2.36 |
| ALSFT-673-AC/150/24 | AC 150/24 | Yellow | - |
| ALSFT-714-WLF | Wolf | White | 30/7/2.59 |
| ALSFT-743-CHIC | Chickadee | Red | 18/1/3.77 |
| ALSFT-770-LNX | LYNX | Black | 30/7/2.79 |
| ALSFT-815-PCN | Pelican | Brown | 18/1/4.14 |
| ALSFT-826-PNT | Panther | Brown | 30/7/3.00 |
| ALSFT-850-AC/240/32 | AC 240/32 | Orange | - |
| ALSFT-854-AFL6 | AFL-6 | Brown | - |
| ALSFT-875-LION | LION | Red | 30/7/3.18 |
| ALSFT-924-BEAR | Bear | Orange | 30/7/3.35 |
| ALSFT-1022-GOAT | Goat | Black | 30/7/3.71 |
| ALSFT-1062-BSN | Bison | Blue | 54/7/3.00 |
| ALSFT-1064-TERN | Tern | Blue | 45/3.38 + 7/2.25 |
| ALSFT-1125-ZBR | Zebra | Yellow | 54/7/3.18 |
| ALSFT-1175-DEER | Deer | Red | 30/7/4.26 |
| ALSFT-1400-DNR | Dinosaur | White | 54/3.95 + 19/2.37 |
| ALSFT-1505-LPW | Lapwing | White | 38.15mm |



PARALLEL GROOVE CLAMPS

PREFORMED™ Universal Parallel Groove Clamps are designed to accommodate three ranges of conductor diameters, 4.11 - 11.8mm (PG 1646) 3.71 - 14.35mm (PG 1556) and 6.63 - 18.92mm (PG 2674). Each of these sizes can be supplied in 1, 2 or 3 bolt types and are available as all-aluminium or bi-metal connectors. All clamps are manufactured of aluminium alloy but the bi-metallic version is a test approved anti-corrosion plated product with a distinctive olive-passivated surface finish which differentiate it from the aluminium version.

FEATURES AND BENEFITS

- A recommended non-oxide grease must be used with all clamps to minimise corrosion.
- the setscrews and washers used on our PG clamps are similar material to the body, thus ensuring that there is equal expansion under all temperature conditions and consequently no tendency on loosen.
- A recommended non-oxide grease must be used with all clamps to minimise corrosion.

Parallel Groove Clamps

Specifications

| Cat.No. | Main & Tap Dia. Range(mm) | Number of Bolts | Current Capacity(amps) |
|------------|------------------------------|-----------------|---------------------------|
| PG 1556-1 | 3.7 - 14.2 | 1 | 7 |
| PG 1556-2 | 3.7 - 14.2 | 2 | 7 |
| PG 1556-3 | 3.7 - 14.2 | 3 | 7 |
| PG 1646-1 | 4.1 - 11.8 | 1 | 7 |
| PG 1646-2 | 4.1 - 11.8 | 2 | 8 |
| PG 1646-3 | 4.1 - 11.8 | 3 | 8 |
| PG 2674-1 | 6.6 - 18.9 | 1 | 9 |
| PG 2674-2 | 6.6 - 18.9 | 2 | 9 |
| PG 2674-3 | 6.6 - 18.9 | 3 | 10 |
| PG 65125-1 | 16.5 - 31.75 | 1 | 10 |
| PG 65125-2 | 16.5 - 31.75 | 2 | 10 |
| PG 65125-3 | 16.5 - 31.75 | 3 | 10 |

'B' denotes all aluminium PG connectors. For bi-metal please replace "B" with "G".



DEAD END

Distribution Grip DEAD END is recommended for direct application over plastic jacketed (not fabric covered) conductor. Coated Dead-ends are also recommended for jacketed conductor. Dead End: Bare; manufactured from similar basic material to that of the conductor to which it should be applied as used in general distribution construction.

Where conductors are homogeneous stranding the Rated Holding Strength approximates the Rated Breaking Strength of the conductor.

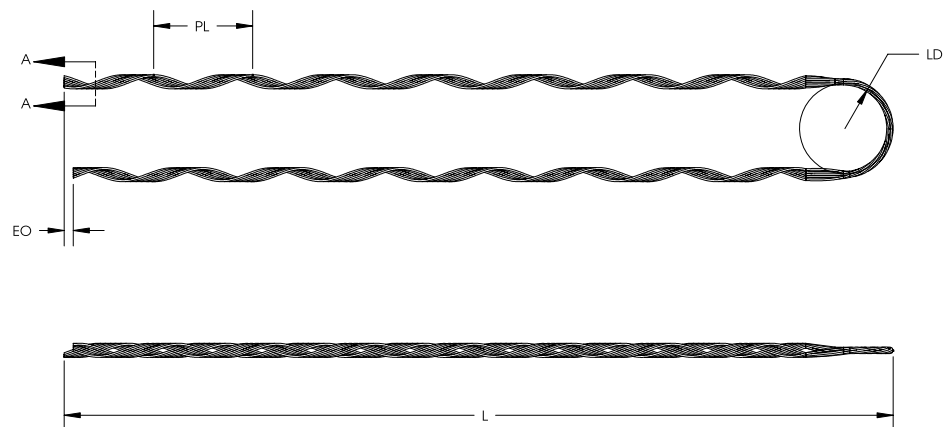
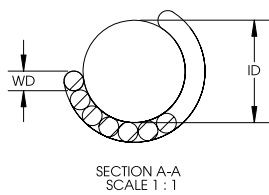
FEATURES AND BENEFITS

- Tools are not required nor recommended to install Distribution-Grip Dead Ends, except for hot stick applications.
- Designed to grip the conductor uniformly to prevent distortion of the conductor.
- Unique design that eliminates bolts, nuts, washers and other component parts that may become lost or damaged during installation or in service.
- Dead Ends up to Cat No. ADE 270 are manufactured with a cabled loop to ensure ease of application and the minimum of "Stretch" after installation.

Aluminium Alloy Dead Ends

Specifications

| Cat.No. | Conductor Code | Conductor Strand | Colour Code |
|---------|----------------|------------------|-------------|
| ADE 249 | Squirrel | 6.18 - 6.34 | Orange |
| ADE 255 | | 6.35 - 6.60 | Green |
| ADE 270 | | 6.61 - 7.00 | Black |
| ADE 280 | Gopher | 7.01 - 7.40 | Yellow |
| ADE 300 | Weasel | 7.41 - 7.84 | Brown |
| ADE 311 | | 7.85 - 8.26 | Red |
| ADE 330 | Fox/Ladybird | 8.27 - 8.64 | Blue |
| ADE 348 | Fir | 8.65 - 9.15 | Green |
| ADE 366 | Ant | 9.16 - 9.65 | Black |
| ADE 396 | Rabbit | 9.66 - 10.40 | Yellow |
| ADE 432 | Mink | 10.41 - 11.20 | Red |
| ADE 472 | Beaver | 11.21 - 12.10 | Blue |
| ADE 480 | Willow | 12.11 - 12.99 | Orange |
| ADE 520 | Wasp | 13.00 - 13.94 | Green |
| ADE 558 | Hare/Oak | 13.94 - 14.70 | Brown |
| ADE 595 | Hyena | 14.71 - 15.70 | Blue |
| ADE 625 | Mulberry | 15.71 - 16.24 | Orange |
| ADE 650 | Tiger | 16.25 - 17.39 | Red |
| ADE 700 | | 17.40 - 18.12 | Yellow |
| ADE 714 | Wolf | 18.13 - 18.70 | White |
| ADE 740 | Elm | 18.71 - 19.50 | Red |



Copper Alloy Dead Ends

Specifications

| Cat.No. | Conductor Strand | Colour Code |
|---------|------------------|-------------|
| CDE 182 | 4.62 - 5.19 | Green |
| CDE 203 | 5.20 - 5.80 | Red |
| CDE 232 | 5.81 - 6.40 | Blue |
| CDE 249 | 6.41 - 7.36 | White |
| CDE 290 | 7.37 - 8.28 | Yellow |
| CDE 330 | 8.29 - 8.99 | Blue |
| CDE 354 | 9.00 - 10.04 | Brown |
| CDE 396 | 10.05 - 10.49 | Orange |
| CDE 415 | 10.50 - 10.89 | Green |
| CDE 445 | 10.90 - 11.67 | Blue |
| CDE 498 | 11.68 - 13.04 | White |
| CDE 520 | 13.05 - 14.19 | Grey |
| CDE 560 | 14.20 - 15.40 | Green |
| CDE 606 | 15.41 - 16.49 | Blue |
| CDE 650 | 16.50 - 18.00 | Red |



ALUMINIUM ALLOY THIMBLE CLEVIS

Thimble Clevises are used in conjunction with PLP® Dead Ends on suspension-type or Dead End insulators. The Thimble is intended to provide a smooth internal contour to prevent stress concentration within the loop of a PLP® Dead End. The Clevis includes a steel pin which links it through the eye of an insulator and secures it with a humpbacked cotter key.

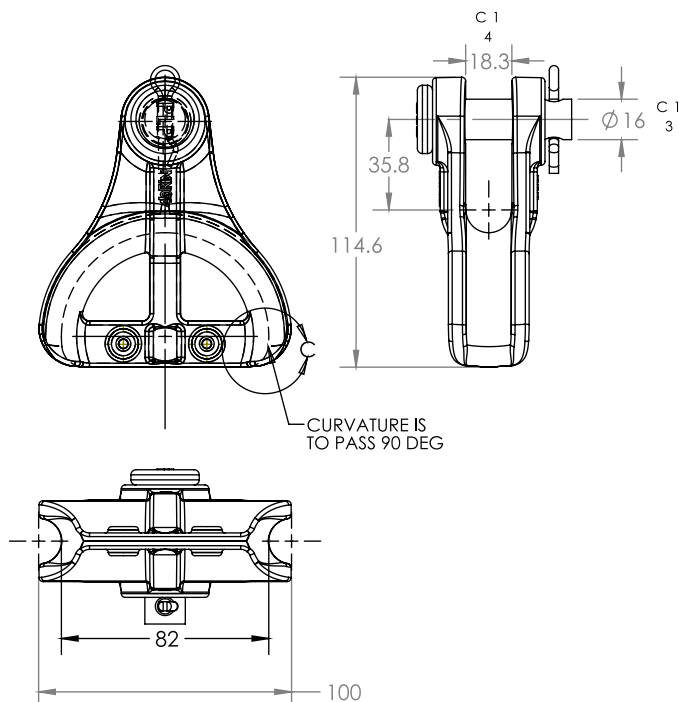
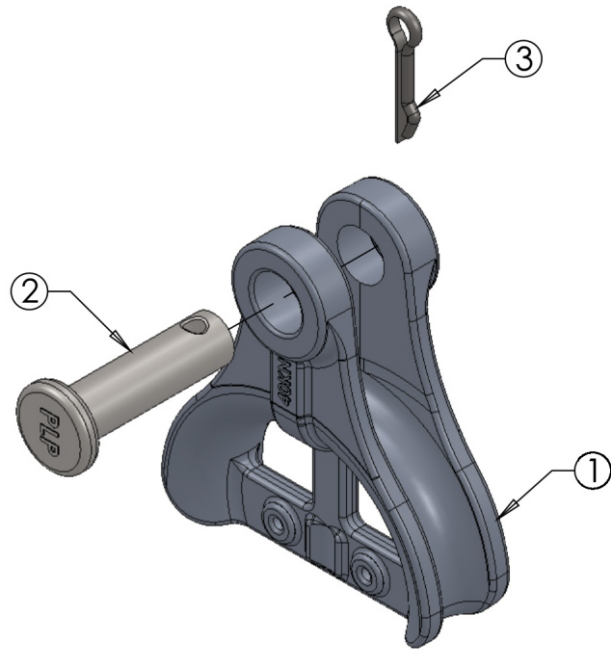
FEATURES AND BENEFITS

- It is a distinct advantage to tension the conductors from the Thimble Clevis rather than from the cross-arm which is the alternative method.
- Thimble Clevis ensures insulators are properly sited and placed in tension.
- The complete termination procedure is carried out quickly, efficiently, uniformly and safely.

Cast Aluminium Thimble Clevis- 40kN Assembly

Catalogue No.: TC40-A

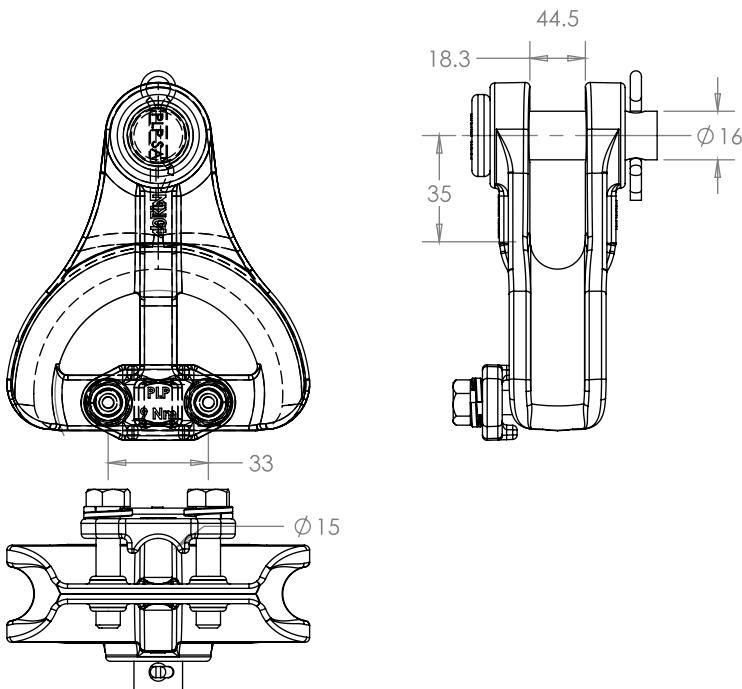
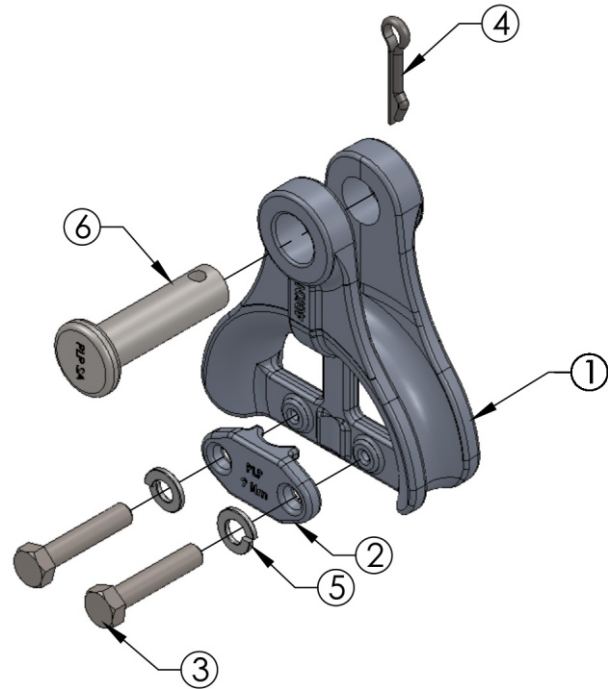
| ITEM NO. | DESCRIPTION | QTY |
|----------|------------------------------------|-----|
| 1 | Cast Al. Thimble Clevis-40KN | 1 |
| 2 | Ø16 X 60mm Clevis Pin | 1 |
| 3 | Stainless Steel Humpback Split Pin | 1 |

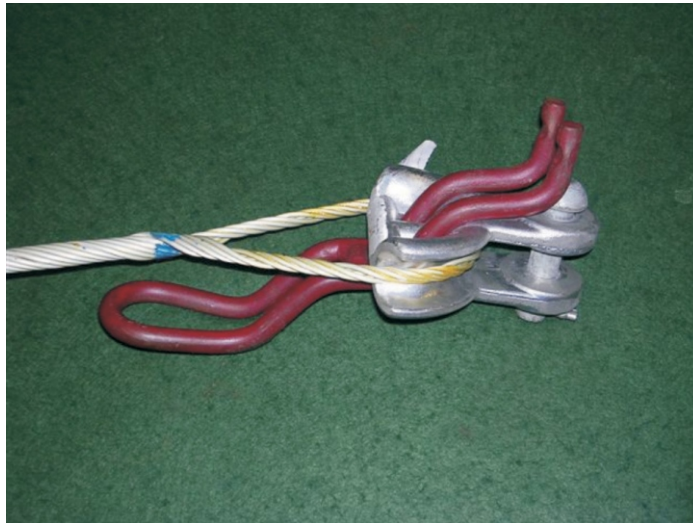


Cast Aluminium Thimble Clevis with Clamping Assembly

Catalogue No.: TC40-C

| ITEM NO. | DESCRIPTION | QTY |
|----------|---|-----|
| 1 | Cast Al. Thimble Clevis-40KN | 1 |
| 2 | Cast Al. Thimble Clevis Keeper | 1 |
| 3 | M8 X 40 Hex Setscrew Stainless Steel Gr. A4 | 2 |
| 4 | Stainless Steel Humpback Stainless Steel 4x16 | 1 |
| 5 | M8 Spring Washer Stainless Steel - GR 316 | 2 |
| 6 | ø16 x 60mm Clevis Pin | 1 |





THIMBLE REGULATING EYE

The Thimble Regulating Eye has been designed and developed to facilitate conductor tensioning and easier installation of PLP® Dead Ends. It is designed to fit the PLP® Thimble Clevis as shown in this picture.

FEATURES AND BENEFITS

- The Thimble Regulating Eye is installed over, or under, the Thimble Clevis, with the legs fitting neatly into the “bow” of the Thimble Clevis.
- For safety reasons the Regulating Eye has been designed so that it does not suddenly drop down when tension is released.
- In practice it is preferable to fit it under the Thimble Clevis, so that when the tensioning hoist is released, the Regulating Eye hoist is secured to the loop of the regulating eye and to the conductor.



ALUMINIUM BARE DEAD END

The Aluminium Bare Dead End is intended for use on aluminiumbased conductor, with a diameter range of 6.6 to 9.3mm. It is designed to terminate primary, secondary and neutral wire conductors.

FEATURES AND BENEFITS

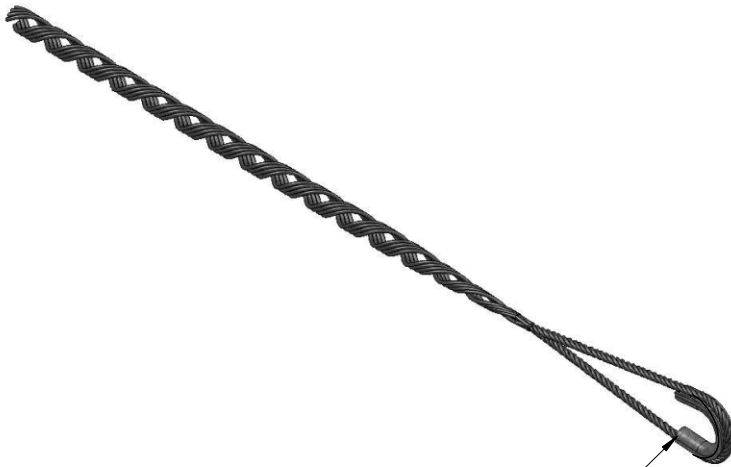
- Tools are not required nor recommended to install Aluminium Bare Dead Ends, except for hot stick applications
- Designed to grip the conductor uniformly to prevent distortion of the conductor.
- Unique design that eliminates bolts, nuts, washers and other component parts that may become lost or damaged during installation or in service.

Specifications

| Cat.No. | Conductor Strand | Colour Code |
|----------|------------------|-------------|
| ABDE 298 | 6.6 - 8.5 | Blue |
| ABDE 315 | 8 | Green |
| ABDE 366 | 9.3 | Black |

NOTES:

1. MATERIAL: 90T STEEL
2. ALL DIMENSIONS IN MILLIMETERS (mm)



NYLON THIMBLE





THIMBLE CLEVIS MALLEABLE IRON

This fitting is an alternative to the aluminium Thimble Clevis and is designed for use with PLP® copper or steel Dead Ends or Guy Grips.

FEATURES AND BENEFITS

- Malleable Cast Iron Galvanised to SABS 763
- Minimum failing load is 120kN



GUY-GRIP®

The Guy-Grips are generally recommended for wood pole distribution and telecommunication construction. Guy-Grips® should be used on hardware that is held in a fixed position; the fitting should not be allowed to rotate or spin about the axis of the strand.

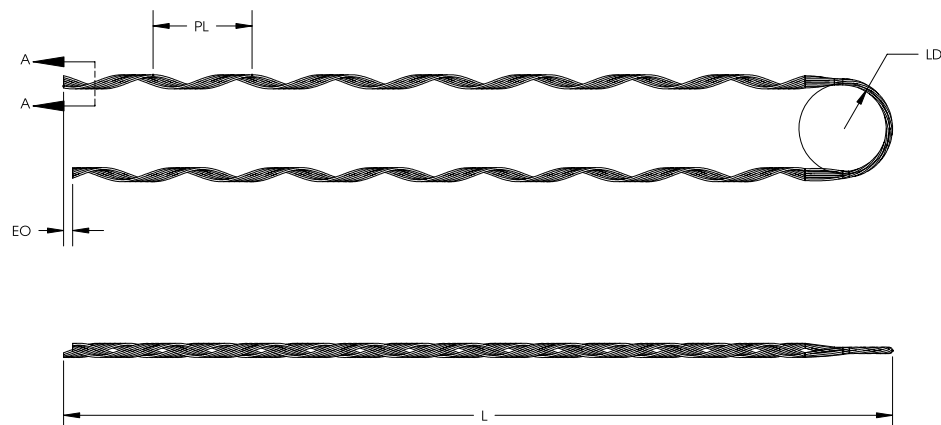
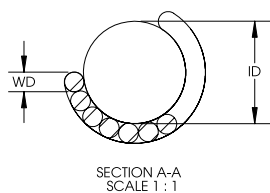
FEATURES AND BENEFITS

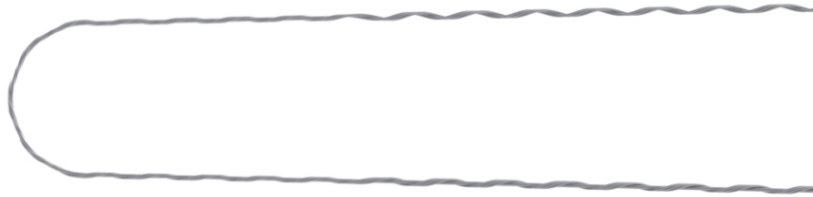
- Guy-Grips® is supplied with a cabled loop to ease application and to prevent stretch.
- Guy-Grip® may be removed and re-applied three times, if necessary, on new construction, for the purpose retensioning stays.
- Lay direction of Guy-Grip® must be the same as that of the strand to which it is applied.
- Rated holding strengths are at least equal to those of the staywire.

Galvanised Steel Guy-Grip®

Specifications

| Cat.No. | Strand | Conductor Strand | Colour Code |
|----------|---------|------------------|-------------|
| GSDE 104 | 1/2.64 | 2.54 - 2.64 | Brown |
| GSDE 108 | - | 2.65 - 2.85 | Green |
| GSDE 118 | - | 2.86 - 3.3 | Red |
| GSDE 144 | 7/1.22 | 3.31 - 3.66 | Brown |
| GSDE 150 | - | 3.67 - 4 | White |
| GSDE 167 | - | 4.01 - 4.41 | Orange |
| GSDE 175 | - | 4.42 - 4.82 | Blue |
| GSDE 192 | 7/1.65 | 4.83 - 5.31 | Yellow |
| GSDE 225 | - | 5.32 - 5.72 | Green |
| GSDE 240 | 7/2.03 | 5.76 - 6.2 | Orange |
| GSDE 250 | - | 6.21 - 6.89 | Green |
| GSDE 284 | 3/3.35 | 6.9 - 7.32 | Black |
| GSDE 312 | 7/2.64 | 7.65 - 8.05 | Brown |
| GSDE 338 | 3/4.00 | 8.06 - 8.59 | Blue |
| GSDE 352 | - | 8.6 - 8.93 | Yellow |
| GSDE 370 | - | 8.94 - 9.68 | Orange |
| GSDE 384 | 7/3.25 | 9.68 - 10.03 | Black |
| GSDE 396 | 7/3.35 | 10.04 - 10.62 | Blue |
| GSDE 432 | 5/4.00 | 10.63 - 11.13 | Brown |
| GSDE 452 | - | 11.13 - 11.83 | Red |
| GSDE 472 | 7/4.00 | 11.84 - 12.17 | Green |
| GSDE 490 | - | 12.18 - 12.94 | Blue |
| GSDE 520 | 19/2.65 | 12.95 - 13.59 | Red |





POLE TOPS

The PLP® Pole Tops make-off is complimentary fitting to the Guy-Grip, described earlier. It is in effect a built Pole Top Stay, and consists of a single set of 3 galvanised steel wires of 1400 M Pa strength, helically formed with a single unformed 700M Pa core wire.

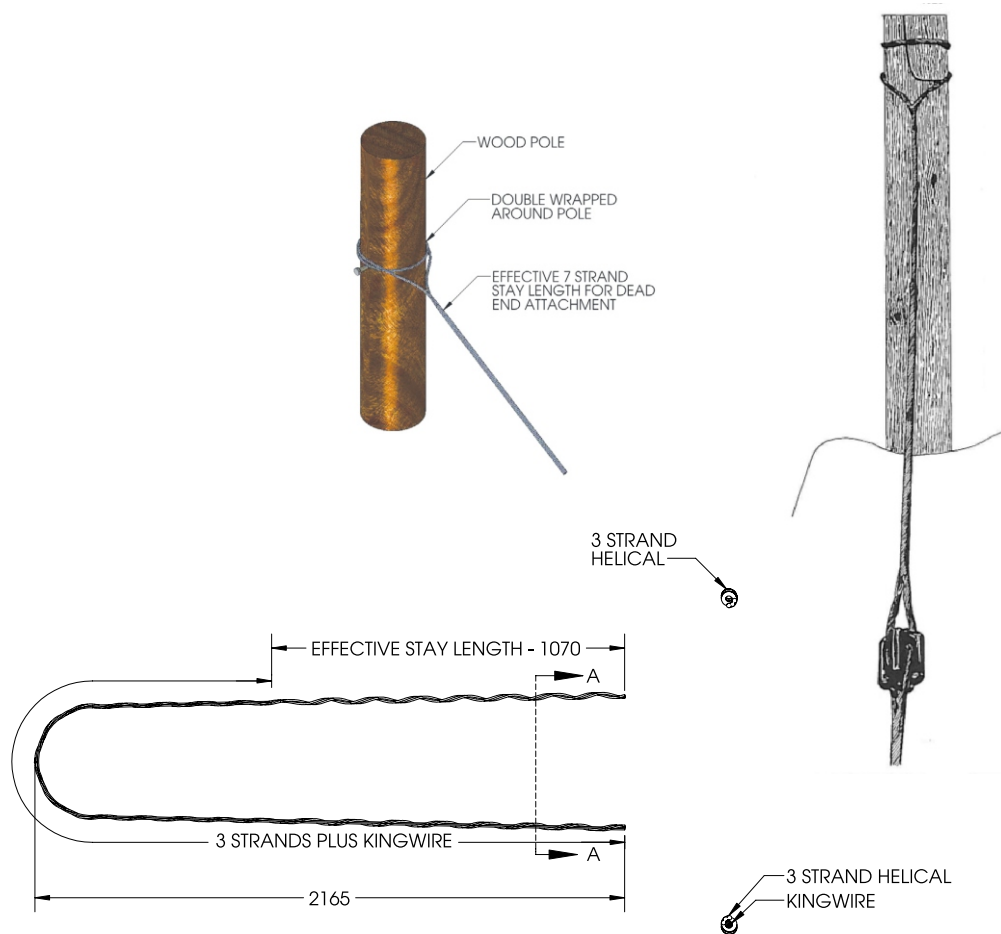
FEATURES AND BENEFITS

- Effective 7 strand stay length for Dead-End attachment
- 3 strands plus Kingwire
- The central king wire is of sufficient length that the parts above the crossover may be utilised as an earth bond.

Galvanised Steel Pole Top Make-offs

Specifications

| Cat.No. | Strand | Colour Code |
|----------|---------|-------------|
| PT 240-6 | 7/2.03 | Orange |
| PT 284-6 | 3/3.35 | Black |
| PT 312-6 | 7/2.64 | Brown |
| PT 330-6 | - | Blue |
| PT 345-6 | 3/4.00 | Red |
| PT 384-6 | 7/3.25 | Black |
| PT 396-6 | 7/3.35 | Yellow |
| PT 432-6 | 5/4.00 | Brown |
| PT 480-6 | 7/4.00 | Green |
| PT 520-6 | 19/2.65 | Orange |
| PT 640-6 | 19/3.25 | Brown |



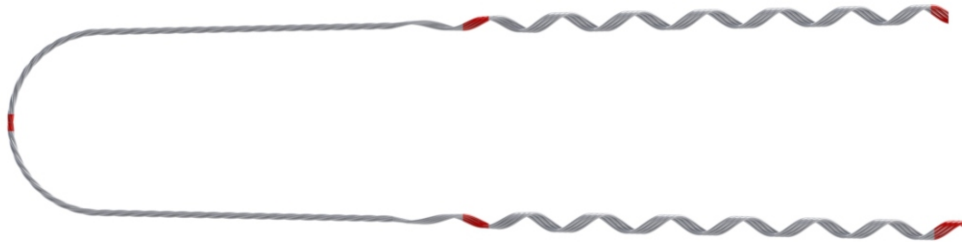


PULLING EYE

Pulling Eye is designed to facilitate safe, fast installation of Guy-Grip dead-ends at the anchor rod. Constructed of corrosion-resistant nodular iron, this re-usable tool has a large eye which is offset to position the hook of the chain hoist safely to one side, and permit easy, uncrowded application of the dead-end. The PLP® Pulling Eye is adjustable for rod size, and is engineered to withstand a 1360kg working load without failure.

FEATURES AND BENEFITS

- Facilitates safe, fast installation of all dead-ends by a pulling point at the anchor.
- Installs around the anchor hardware in seconds.
- Nodular Iron housing and keeper with EHS steel bolt and nut.
- Corrosion resistant powder coating iron.
- Reusable
- Lightweight



DOUBLE-WRAP GUY-GRIP®

Double-Wrap Guy-Grips® are designed to terminate solid or stranded wire used for stays, catenaries/messengers etc. at pole top positions, when Stay Insulators are NOT used. Suitable for varying pole diameter and for double wrapping, the Double-Wrap Guy-Grip® secures the strand at the top of the pole. A standard Guy-Grip® of the correct size is used to terminate the Staywire at the Stayrod.

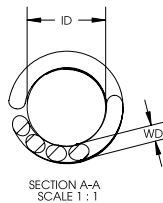
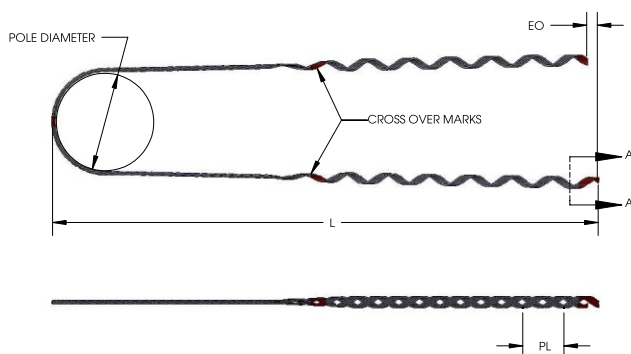
FEATURES AND BENEFITS

- Positive grip upon the strand that cannot be displaced by bending or vibration.
- Even distribution of pressure along a wide area, eliminating concentrated forces..
- Fast, simple and uniform application.
- Compatibility with the strand to which the fitting is applied.

Double-Wrap Guy-Grip®

Specifications

| Cat.No. | Strand | Conductor Strand | Colour Code |
|----------|---------|------------------|-------------|
| DWGG 104 | 1/2.64 | 2.54 - 2.64 | Brown |
| DWGG 108 | - | 2.65 - 2.85 | Green |
| DWGG 118 | - | 2.86 - 3.3 | Red |
| DWGG 144 | 7/1.22 | 3.31 - 3.66 | Brown |
| DWGG 150 | - | 3.67 - 4 | White |
| DWGG 167 | - | 4.01 - 4.41 | Orange |
| DWGG 175 | - | 4.42 - 4.82 | Blue |
| DWGG 192 | 7/1.65 | 4.83 - 5.31 | Yellow |
| DWGG 224 | - | 5.32 - 5.72 | Green |
| DWGG 240 | 7/2.03 | 5.76 - 6.2 | Orange |
| DWGG 250 | - | 6.21 - 6.89 | Green |
| DWGG 284 | 3/3.35 | 6.9 - 7.32 | Black |
| DWGG 312 | 7/2.64 | 7.65 - 8.05 | Brown |
| DWGG 338 | 3/4.00 | 8.06 - 8.59 | Blue |
| DWGG 352 | - | 8.6 - 8.93 | Yellow |
| DWGG 370 | - | 8.94 - 9.68 | Orange |
| DWGG 384 | 7/3.25 | 9.68 - 10.03 | Black |
| DWGG 396 | 7/3.35 | 10.04 - 10.62 | Blue |
| DWGG 432 | 5/4.00 | 10.63 - 11.13 | Brown |
| DWGG 452 | - | 11.13 - 11.83 | Red |
| DWGG 472 | 7/4.00 | 11.84 - 12.17 | Green |
| DWGG 490 | - | 12.18 - 12.94 | Blue |
| DWGG 520 | 19/2.65 | 12.95 - 13.59 | Red |



APPLICATION OF DWGG BETWEEN STAYWIRE AND POLE



SPIRAL VIBRATION DAMPER

PLP's Spiral Vibration Damper reduces Aeolian Vibration (the high frequency, low amplitude vibration caused by horizontal wind passing across the line. It is designed to be used on OPGW and conductors with an outside diameter less than 19.30mm

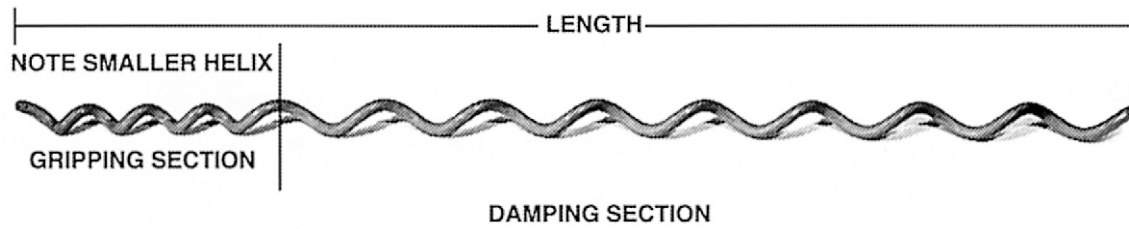
FEATURES AND BENEFITS

- Spiral Vibration Dampers should be given serious consideration when distribution spans exceed 115M and/or 15% tension at 16 degrees.
- Spiral Vibration Dampers should be used on conductors between 4.4mm and 19.3mm outside diameter in area experiencing or having a history of vibration.
- Two Spiral Vibration Dampers are recommended to be installed one hand's width apart, each side of the support where spans exceed 244M.
- Helically scaled for interplay of damper and conductor, to provide the action/reaction motion that opposes the natural vibration wave.
- The material is non-corrosive, has a surface hardness which does not abrade the conductor, and is formulated to resist ultra-violet rays.

Spiral Vibration Damper

Specifications

| Cat.No. | Conductor Diameter | Damping Length |
|---------|--------------------|----------------|
| SVD 32 | 4.35 - 6.32 | 940 |
| SVD 34 | 6.33 - 8.28 | 990 |
| SVD 36 | 8.29 - 11.71 | 1040 |
| SVD 38 | 11.72 - 14.30 | 1070 |
| SVD 40 | 14.31 - 19.30 | 1150 |



Spiral Vibration Damper High Impact PVC

Selection and Placement Guide

1. METAL FREE SELF SUPPORTING FIBRE OPTIC CABLE APPLICATIONS

| SPAN LENGTH | NUMBER OF DAMPERS |
|-------------------------------|--------------------------------------|
| Up to 150 metres | 2 dampers per span |
| 150 metres to 350 metres | 4 dampers per span (2 subsets of 2) |
| 350 metres to 550 metres | 6 dampers per span (2 subsets of 3) |
| *550 metres to 1 000 metres | 9 dampers per span (3 subsets of 3) |
| *1 000 metres to 1 450 metres | 12 dampers per span (4 subsets of 3) |

2. OPGW AND METALLIC CONDUCTORS (I.E. AL. BASED DISTRIBUTION CONDUCTORS)

| SPAN LENGTH | NUMBER OF DAMPERS |
|-------------------------------|--------------------------------------|
| Up to 250 metres | 2 dampers per span |
| 250 metres to 500 metres | 4 dampers per span (2 subsets of 2) |
| 500 metres to 750 metres | 6 dampers per span (2 subsets of 3) |
| *750 metres to 1 125 metres | 9 dampers per span (3 subsets of 3) |
| *1 125 metres to 1 500 metres | 12 dampers per span (4 subsets of 3) |

Application and Inspection: The Gripping Section should be installed approximately one hand's width from the ends of Armor Rod or other hardware.

It is not necessary to make engineering calculations as to placement.

Installation may be made with hot-sticks at selected locations, after vibration experience has been obtained through line inspections.

Application Instructions: The SPIRAL VIBRATION DAMPER has a large damping helix at one end and a smaller conductor gripping helix at the other. Determine which end has the small gripping helix.

Take the small gripping helix in one hand and rotate the other large damping end around the conductor feeding it into the span.

When all the large coils or pitches have been applied over the conductor position the smaller gripping pitches so this end of the section is approximately 100mm. or one hands width away from the dead-end, or intermediate support/suspension.

The gripping pitches can now be applied to the conductor which completes the application.

Additional Information: SPIRAL VIBRATION DAMPERS are precision devices and should be handled carefully to prevent distortion and damage.

They should be stored in cartons under cover – preferably shelf storage until used. Tools should not be used to snap the ends into position during hand application. Ensure that the correct size fitting is used.





LASHING ROD

Lashing Rods can be used on all types of messengered overhead cables. They are particularly adaptable to spans obstructed by trees, short spans over traffic intersections and support of power cable into and out of substations.

FEATURES AND BENEFITS

- Lashing Rod are made of the same basic material as the messenger to which they are applied. This pertains to galvanized, copperweld and alumoweld.
- For use in highly corrosive environment, or on extra heavy cables, a neoprene coating can be applied to the galvanized, Copperweld, Aluminium -clad steel or stainless steel Lashing Rod.
- In selecting the proper size Lashing Rod it is necessary to determine the smallest circumscribing circle that enclose the messenger and cables.

Lashing Rods

Application-Inspection

The smaller inside diameter of the proper size Lashing Rod should exert a low radial pressure on the cables and messenger.

For most installations, one Lashing Rod should be applied, overlapping one pitch length with each successive rod.



Two Lashing Rods, applied 180 degrees apart are recommended when the cable-messenger assembly weighs more than 12kg per metre, or at installations where the angle of sag exceeds 20 degrees from the horizontal.



Lashing Rods Neoprene Covered



For use in highly corrosive environment, or on extra heavy cables, a neoprene coating can be applied to the Galvanized, Copperweld, Alumoweld or Stainless Steel Lashing Rods appearing on the price pages. However, for normal outdoor power installations, the uncoated Lashing Rod will be satisfactory.

In calculating circumscribing diameters for size selection, the thickness of the neoprene coating can be neglected.

Consult the factory for neoprene covered Lashing Rod. Include the minimum circumscribing diameter and the type of messenger material.



EARTH GUARD

The system caters for both vertical and horizontal low voltage overhead line configurations: 400 volts, 3 phase, 4 wire. The earth bar comprises a guillotined strip of stainless steel developed in South Africa and known as 3CR12 alloy. This inexpensive method of thermal protection was introduced to cater for excessive rises in temperature of the metal strip due to prolonged fault current intervals.

FEATURES AND BENEFITS

- Santoprene rubber grommets are used as thermal protection for the PVC rod and are fitted to the metal strip at the point of suspension.
- The basic design of both vertical and horizontal units caters for various conductor spacings and numbers.
- A rectangular bar was chosen in preference to a round earth bar to ensure improved electrical contact especially in the case of badly oxidised conductors.



PVC SPACER

Provides a new, inexpensive way of eliminating mid-span clashing on L.V. up to 4kV Distribution lines or telecommunications, circuits. Applied to parallel or converging lines, they maintain spacing required between adjacent spans. The helically formed legs assure absolute uniformity of each application..

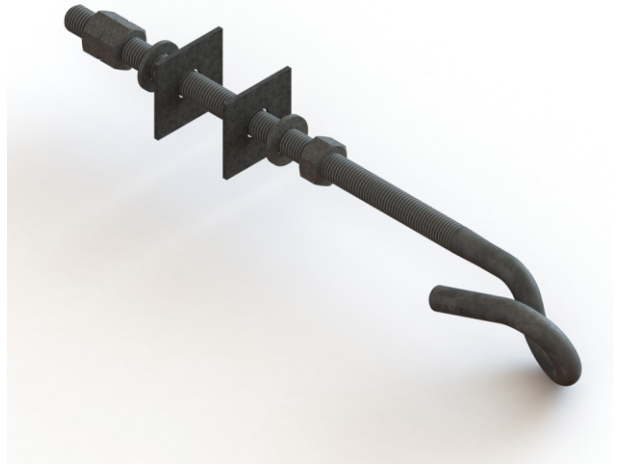
FEATURES AND BENEFITS

- Made from rigid, solid high impact PVC.
- Designed with a suitable inside diameter for direct application to mid-span locations.
- Easily wrapped onto adjacent wires.

Pigtail Bolt Assembly

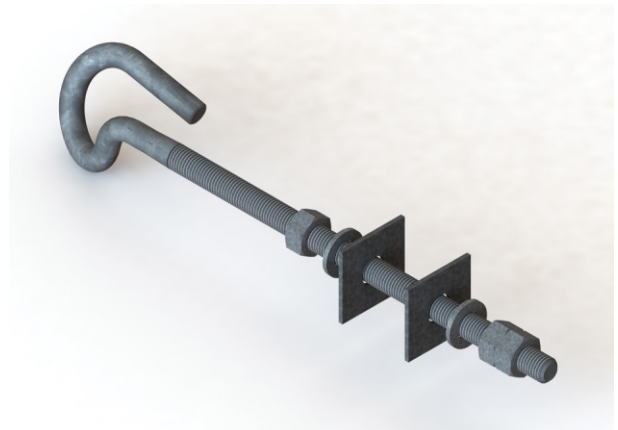
| Catalog Numbers | Bolt Diameter | Bolt Diameter |
|-----------------|---------------|---------------|
| PB10/280 | 10 | 280 |
| PB12/380 | 12 | 380 |
| PB16/380 | 16 | 380 |

Other sizes available on request



Pig Tail Bolts

| Catalog Numbers | Horizontal Load Rating (kN) | Thread | Thread Length(mm) |
|-----------------|-----------------------------|--------|-------------------|
| PT 16-380 | 10 | M16 | 380 |



Pistol Grip Aluminium Strain Clamp (Pistol Type)

| Catalog Numbers | Conductor Range(kN) | UTS | No. Of Bolts |
|-----------------|---------------------|-----|--------------|
| STC 5/16 | 5-16 | 70 | 3 |



Aluminium Suspension Clamp (Cradle Type)

| Catalog Numbers | Conductor Range(kN) | UTS |
|-----------------|---------------------|-----|
| ASC 818 | 8 - 18 | 40 |
| ASC 1226 | 12 - 26 | 40 |



Shackles

| Catalog Numbers | Load Rating (kN) | Fastener Type | Thread Length(mm) |
|-----------------|------------------|---------------|-------------------|
| SSP-70 | 70 | 16mm Pin | 16 |
| DSK-120 | 120 | M16 Bolt | 16 |
| DSK-210 | 210 | M120 Bolt | 20 |

Compliant with Eskom D-DT-3010 & D-DT-7017



Threaded Rod Assemblies

| Thread Size | Standard Lengths(mm) |
|-------------|---------------------------------|
| M12 | 350 |
| M16 | 200, 250, 350 |
| M20 | 250, 350, 450, 600, 750, 1000 |
| M24 | 350, 500, 650, 1000, 1200, 1300 |

Supplied with washers, bonding clips and hex nuts as per Eskom D-DT-3015.

Other sizes are available on request.



Eye Bolts

| Catalog Numbers | Load Rating (kN) | Thread | Length(mm) |
|-----------------|------------------|--------|------------|
| EB 16260 | 40 | M16 | 260 |
| EB 20250 | 70 | M20 | 250 |
| EB 20350 | 70 | M20 | 350 |

Supplied with washers, bonding clips and hex nuts as per Eskom D-DT-3005.
Other sizes are available on request.



Eye Nuts

| Catalog Numbers | Load Rating(kN) | Thread |
|-----------------|-----------------|--------|
| EN 16 | 40 | M16 |
| EN 20 | 70 | M20 |



Conductor Guide

All Aluminium Alloy Conductors - AAAC (British Standard Sizes)

| Conductor Name | Equivalent Copper area | Stranding & Wire dia. | Overall Diameter | Aluminium Area |
|----------------|------------------------|-----------------------|------------------|----------------|
| ACACIA | 13 | 7/2,08 | 6,24 | 23,79 |
| ALMOND | 16 | 7/2,34 | 7,02 | 30,10 |
| CEDAR | 19 | 7/2,54 | 7,59 | 35,47 |
| 35 | 22 | 7/2,77 | 8,31 | 42,18 |
| FIR | 25 | 7/2,95 | 8,85 | 47,84 |
| HAZEL | 32 | 7/3,30 | 9,90 | 59,87 |
| PINE | 38 | 7/3,61 | 10,83 | 71,65 |
| 70 | 45 | 7/3,91 | 11,73 | 84,05 |
| WILLOW | 48 | 7/4,04 | 12,12 | 89,73 |
| 80 | 51 | 7/4,19 | 12,57 | 96,52 |
| 90 | 58 | 7/4,45 | 13,35 | 108,9 |
| OAK | 63 | 7/4,65 | 13,95 | 118,9 |
| 100 | 63 | 19/2,82 | 14,10 | 118,7 |
| MULBERRY | 80 | 19/3,18 | 15,90 | 150,9 |
| ASH | 96 | 19/3,48 | 17,40 | 180,7 |
| ELM | 112 | 19/3,76 | 18,80 | 210,9 |
| POPLAR | 119 | 37/2,87 | 20,09 | 239,4 |
| 225 | 143 | 37/3,05 | 21,35 | 270,3 |
| SYCAMORE | 161 | 37/3,23 | 22,61 | 303,2 |
| UPAS | 192 | 37/3,53 | 24,71 | 362,1 |
| 350 | 224 | 37/3,81 | 26,67 | 421,8 |
| YEW | 254 | 37/4,06 | 28,42 | 479,0 |

All Aluminium Conductor - AAC (British Standard Sizes)

| Conductor Name | Equivalent Copper area | Stranding & Wire dia. | Overall Diameter | Aluminium Area |
|----------------|------------------------|-----------------------|------------------|----------------|
| MIDGE | 14,19 | 7/2,06 | 6,18 | 23,33 |
| APHIS | 16,13 | 3/3,35 | 7,24 | 26,44 |
| GNAT | 16,13 | 7/2,21 | 6,63 | 26,85 |
| WEEVIL | 19,35 | 3/3,66 | 7,91 | 31,56 |
| MOSQUITO | 22,58 | 7/2,59 | 7,77 | 36,88 |
| LADYBIRD | 25,81 | 7/2,79 | 8,37 | 42,80 |
| ANT | 32,26 | 7/3,10 | 9,30 | 52,83 |
| FLY | 38,71 | 7/3,40 | 10,20 | 63,55 |
| BLUEBOTTLE | 45,16 | 7/3,66 | 10,98 | 73,65 |
| EARWIG | 48,39 | 7/3,78 | 11,34 | 78,55 |
| GRASSHOPPER | 51,61 | 7/3,91 | 11,73 | 84,05 |
| CLEGG | 58,06 | 7/4,17 | 12,51 | 95,60 |
| WASP | 64,52 | 7/4,39 | 13,17 | 105,95 |
| BEETLE | 64,52 | 19/2,67 | 13,35 | 106,38 |
| BEE | 80,64 | 7/4,90 | 14,70 | 132,00 |
| CRICKET | 96,77 | 7/5,36 | 16,08 | 157,95 |
| HORNET | 96,77 | 19/3,25 | 16,25 | 157,95 |
| CATERPILLAR | 112,90 | 19/3,53 | 17,65 | 185,95 |
| CHAFER | 129,00 | 19/3,78 | 18,90 | 213,22 |
| SPIDER | 145,20 | 19/3,99 | 19,95 | 237,57 |
| COCKROACH | 161,30 | 19/4,22 | 21,10 | 265,75 |
| BUTTERFLY | 193,50 | 19/4,65 | 23,25 | 322,66 |
| MOTH | 225,80 | 19/5,00 | 25,00 | 373,06 |
| DRONE | 225,80 | 37/3,58 | 25,06 | 372,44 |
| LOCUST | 258,10 | 19/5,36 | 26,80 | 428,72 |
| CENTIPEDE | 258,10 | 37/3,78 | 26,46 | 415,22 |
| MAYBUG | 290,30 | 37/4,09 | 28,63 | 486,11 |
| SCORPION | 322,60 | 37/4,27 | 29,89 | 529,84 |
| CICADA | 387,10 | 37/4,65 | 32,55 | 628,34 |
| TARANTULA | 483,90 | 37/5,23 | 36,61 | 794,87 |
| BULL | 527,87 | 61/4,25 | 38,25 | 865,36 |

Aluminium Conductor Steel Reinforced-ACSR (British Standard Sizes)

| Conductor Name | Equivalent Copper area | Stranding & Wire dia. | Overall Diameter | Aluminium Area |
|----------------|------------------------|-----------------------|------------------|----------------|
| MOLE | 6,45 | 6/1/1,50 | 1,50 | 4,50 |
| SQUIRREL | 12,90 | 6/1/2,11 | 2,11 | 6,33 |
| GOPHER | 16,30 | 6/1/2,36 | 2,36 | 7,08 |
| WEASEL | 19,35 | 6/1/2,59 | 2,59 | 7,77 |
| FOX | 22,58 | 6/1/2,79 | 2,79 | 8,37 |
| FERRET | 25,81 | 6/1/3,00 | 3,00 | 9,00 |
| RABBIT | 32,26 | 6/1/3,35 | 3,35 | 10,05 |
| MINK | 38,71 | 6/1/3,66 | 3,66 | 10,98 |
| SKUNK | 38,71 | 12/7/2,59 | 7,77 | 12,95 |
| BEAVER | 45,16 | 6/1/3,99 | 3,99 | 11,97 |
| HORSE | 45,16 | 12/7/2,79 | 8,37 | 13,95 |
| RACCOON | 48,39 | 6/1/4,09 | 4,09 | 12,27 |
| OTTER | 51,61 | 6/1/4,22 | 4,22 | 12,66 |
| CAT | 58,06 | 6/1/4,50 | 4,50 | 13,50 |
| HARE | 64,52 | 6/1/4,72 | 4,72 | 14,16 |
| DOG | 64,52 | 6/4,72 | 4,71 | 14,15 |
| HYENA | 64,52 | +7/1,57 | 5,79 | 14,57 |
| LEOPARD | 80,65 | 7/4,39 | 5,25 | 15,81 |
| COYOTE | 80,65 | +7/1,93 | 5,73 | 15,89 |
| TIGER | 80,65 | 6/5,28 | 4,72 | 16,52 |
| WOLF | 96,77 | +7/1,75 | 7,77 | 18,13 |
| LYNX | 112,90 | 26/2,54 | 8,37 | 19,53 |
| PANTHER | 129,00 | +7/1,91 | 9,00 | 21,00 |
| LION | 145,20 | 30/7/2,36 | 9,54 | 22,26 |
| BEAR | 161,30 | 30/7/2,59 | 10,05 | 23,45 |
| GOAT | 193,50 | 30/7/2,79 | 11,13 | 25,97 |
| SHEEP | 225,80 | 30/7/3,00 | 11,97 | 27,93 |
| ANTELOPE | 225,80 | 30/7/3,18 | 8,91 | 26,73 |
| BISON | 225,80 | 30/7/3,35 | 9,00 | 27,00 |
| DEER | 258,10 | 30/7/3,71 | 12,81 | 29,89 |
| ZEBRA | 258,10 | 30/7/3,99 | 9,54 | 28,62 |
| ELK | 290,30 | 54/7/2,97 | 13,50 | 31,50 |
| CAMEL | 290,30 | 54/7/3,00 | 10,05 | 30,15 |
| MOOSE | 322,60 | 30/7/4,27 | 10,59 | 31,77 |
| DINOSAUR | 414,63 | 54/7/3,18 | 11,80 | 35,50 |
| BERSFORD | 430,70 | 30/7/4,50 | 9,96 | 35,58 |

Aluminium Conductor Steel Reinforced-ACSR (Canadian Standard Sizes)

| Conductor Name | Equivalent Copper area | Stranding & Wire dia. | Overall Diameter | Aluminium Area |
|----------------|------------------------|-----------------------|------------------|----------------|
| CARDINAL | 305,00 | 54/7/3,38 | 10,14 | 30,38 |
| ORTLAN | 329,40 | 45/3,85 +7/2,57 | 7,71 | 30,81 |
| CURLEW | 329,40 | 54/7/3,52 | 10,56 | 31,65 |
| BLUEJAY | 354,70 | 45/4,00 +7/2,66 | 7,98 | 31,98 |
| FINCH | 354,70 | 54/3,65 +19/2,19 | 10,95 | 32,84 |
| BUNTING | 380,00 | 45/4,14 +7/2/76 | 8,28 | 33,07 |
| GRACKLE | 380,00 | 54/3,77 +19/2,27 | 11,35 | 33,99 |
| BITTERN | 405,40 | 45/4,27 +7/2,85 | 8,55 | 34,16 |
| PHEASANT | 405,40 | 54/3,90 +19/2,34 | 11,70 | 35,36 |
| DIPPER | 430,70 | 45/4,40 +7/2,92 | 8,76 | 35,18 |
| MARTIN | 430,70 | 54/4,02 +19/2,41 | 12,05 | 36,17 |
| BOBLINK | 456,00 | 45/4,53 +7/3,02 | 9,06 | 36,25 |
| PLOVER | 456,00 | 54/4,14 +19/2,48 | 12,40 | 37,21 |
| NUTHATCH | 481,40 | 45/4,65 +7/3,10 | 9,30 | 37,21 |
| PARROT | 481,40 | 54/4,25 +19/2,55 | 12,75 | 38,25 |
| LAPWING | 506,70 | 45/4,77 +7/3,18 | 9,54 | 38,15 |
| FALCON | 506,70 | 54/4,36 +19/2,62 | 13,10 | 39,24 |
| CHUKAR | 567,00 | 84/3,70 +19/2,22 | 11,10 | 40,69 |

Aluminium Conductor Steel Reinforced-ACSR (Canadian Standard Sizes)

| Conductor Name | Equivalent Copper area | Stranding & Wire dia. | Overall Diameter | Aluminium Area |
|----------------|------------------------|-----------------------|------------------|----------------|
| OSPREY | 177,40 | 18/1/4,47 | 4,47 | 22,33 |
| PARAKEET | 177,40 | 24/3,87 +7/2,58 | 7,74 | 23,22 |
| EAGLE | 177,40 | 30/7/3,46 | 10,38 | 24,22 |
| DOVE | 177,40 | 26/3,72 +7/2,89 | 8,67 | 23,55 |
| PEACOCK | 192,80 | 24/4,03 +7/2,69 | 8,07 | 24,21 |
| SQUAB | 192,80 | 26/3,87 +7/3,01 | 9,03 | 24,54 |
| TEAL | 192,80 | 30/3,61 +19/2,16 | 10,80 | 25,25 |
| DUCK | 192,80 | 54/7/2,69 | 8,07 | 24,21 |
| KINGBIRD | 197,04 | 18/1/4,78 | 4,78 | 23,90 |
| ROOK | 202,70 | 24/4,14 +7/2,76 | 8,28 | 24,82 |
| EGRET | 202,70 | 30/3,70 +19/2,22 | 11,10 | 25,90 |
| GROSBEAK | 202,70 | 26/3,97 +7/3,09 | 9,27 | 25,15 |
| GOOSE | 202,70 | 54/7/2,76 | 8,28 | 24,84 |
| FLAMINGO | 212,30 | 24/4,20 +7/2,82 | 8,46 | 25,38 |
| GULL | 212,30 | 54/7/2,82 | 8,46 | 25,38 |
| REDWING | 228,00 | 30/3,92 +19/2,35 | 11,75 | 27,43 |
| STARLING | 228,00 | 26/4,21 +7/3,28 | 9,84 | 26,68 |
| CROW | 228,00 | 54/7/2,92 | 8,76 | 26,28 |
| TERN | 253,40 | 45/3,38 +7/2,25 | 6,75 | 27,00 |
| MALLARD | 253,40 | 30/4,14 +19/2,48 | 12,40 | 28,96 |
| DRAKE | 253,40 | 26/4,44 +7/3,45 | 10,35 | 28,11 |
| CONDOR | 253,40 | 54/7/3,08 | 9,24 | 27,76 |
| CRANE | 278,70 | 54/7/3,23 | 9,69 | 29,11 |
| CANARY | 286,80 | 54/7/3,28 | 9,84 | 29,51 |
| RAIL | 304,00 | 45/3,70 +7/2,47 | 7,41 | 29,59 |



Aluminium Conductor Steel Reinforced-ACSR (Canadian Standard Sizes)

| Conductor Name | Equivalent Copper area | Stranding & Wire dia. | Overall Diameter | Aluminium Area |
|----------------|------------------------|-----------------------|------------------|----------------|
| WREN | 5,26 | 6/1/1,33 | 1,33 | 3,99 |
| WARBLER | 6,63 | 6/1/1,50 | 1,50 | 4,50 |
| TURKEY | 8,37 | 6/1/1,68 | 1,68 | 5,04 |
| THRUSH | 10,55 | 6/1/1,89 | 1,89 | 5,67 |
| SWAN | 13,30 | 6/1/2,12 | 2,12 | 6,36 |
| SWALLOW | 16,77 | 6/1/2,38 | 2,38 | 7,14 |
| SPARROW | 21,15 | 6/1/2,67 | 2,67 | 8,01 |
| ROBIN | 26,67 | 6/1/3,00 | 3,00 | 9,00 |
| RAVEN | 36,62 | 6/1/3,37 | 3,37 | 10,11 |
| QUAIL | 42,41 | 6/1/3,78 | 3,78 | 11,34 |
| PIGEON | 53,49 | 6/1/4,25 | 4,25 | 12,75 |
| PENGUIN | 67,43 | 6/1/4,77 | 4,77 | 14,31 |
| PARTRIDGE | 85,01 | 26/2,57 +7/2,00 | 6,00 | 16,28 |
| OWL | 85,01 | 6/5,36 +7/1,79 | 5,37 | 16,09 |
| WAXWING | 85,01 | 18/1/3,09 | 3,09 | 15,47 |
| PIPER | 95,60 | 30/7/2,54 | 7,62 | 17,78 |
| OSTRICH | 95,60 | 26/2,73 +7/2,12 | 6,36 | 17,28 |
| ORIOLE | 107,20 | 30/7/2,69 | 8,07 | 18,83 |
| LINNET | 107,20 | 26/2,89 +7/2,25 | 6,75 | 18,31 |
| MERLIN | 107,20 | 18/1/3,47 | 3,47 | 17,37 |
| CHICADEE | 126,70 | 18/1/3,77 | 3,77 | 18,87 |
| LARK | 126,70 | 30/7/2,92 | 8,76 | 20,44 |
| IBIS | 126,70 | 26/3,14 +7/2,44 | 7,32 | 19,88 |
| PELICAN | 152,00 | 18/1/4,14 | 4,14 | 20,70 |
| FLICKER | 152,00 | 24/3,58 +7/2,39 | 7,17 | 21,49 |
| HEN | 152,00 | 30/7/3,20 | 9,60 | 22,40 |
| HAWK | 152,00 | 26/3,44 +7/2,68 | 8,04 | 21,80 |
| HERON | 159,40 | 30/7/3,28 | 9,84 | 22,96 |

Aluminium Conductor Steel Reinforced-ACSR (South African Standard Sizes)

| Conductor Name | Equivalent Copper area | Stranding & Wire dia. | Overall Diameter | Aluminium Area |
|----------------|------------------------|-----------------------|------------------|----------------|
| * 21/3,5 | 12,8 | 6/1/2,11 | 2,11 | 6,33 |
| * 26/4,4 | 16,0 | 6/1/2,36 | 2,36 | 7,16 |
| * 37/6,1 | 22,4 | 6/1/2,79 | 2,79 | 8,45 |
| * 42/7,1 | 25,8 | 6/1/3,00 | 3,00 | 9,09 |
| * 53/8,8 | 32,3 | 6/1/3,35 | 3,35 | 10,15 |
| * 63/11 | 38,5 | 6/1/3,66 | 3,66 | 11,09 |
| 105/17 | 64,0 | 6/1/4,72 | 4,72 | 14,30 |
| 105/14 | 64,0 | 6/4,75 +7/1,57 | 4,71 | 14,29 |
| 158/37 | 96,4 | 30/7/2,59 | 7,77 | 18,31 |
| 264/62 | 161 | 30/7/3,35 | 10,05 | 23,69 |
| 429/56 | 262 | 54/7/3,18 54/3,95 | 9,54 | 28,91 |
| 662/84 | 404 | +19/2,37 | 11,85 | 35,94 |

All Aluminium Conductors - AAC (South African Standard Sizes)

| Conductor Name | Equivalent Copper area | Stranding & Wire dia. | Overall Diameter | Aluminium Area |
|----------------|------------------------|-----------------------|------------------|----------------|
| 25 | 15,6 | 7/2,12 | 6,42 | 24,7 |
| 39 | 24,3 | 7/2,65 | 8,03 | 38,6 |
| 58 | 36,6 | 7/3,25 | 10,15 | 58,1 |
| 100 | 62,9 | 7/4,26 | 12,91 | 99,8 |
| * 158 | 99,4 | 19/3,25 | 16,92 | 157,6 |
| 271 | 171,0 | 19/4,26 | 21,52 | 270,8 |
| * 323 | 203,5 | 19/4,65 | 23,49 | 322,7 |
| * 415 | 262,0 | 37/3,78 | 26,73 | 415,2 |
| * 527 | 332,6 | 37/4,26 | 30,12 | 527,4 |
| † 685 | 431,8 | 61/3,78 | 34,36 | 684,6 |
| * 869 | 548,3 | 61/4,26 | 38,73 | 869,4 |



PLP SOUTH AFRICA
180 OHRTMANN ROAD
WILLOWTON, PIETERMARITZBURG
3201

(033) 397 5800
SALES.SA@PLP.COM
PLP.COM

© 2023 Preformed Line Products