



Jumpers & Load Pickup Tools

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All Chance[®] Insulated Jumpers meet ASTM F 2321 Standard Specification.



G4765 25kV



CHANCE – CENTRALIA, MISSOURI JULY 2010

Insulated Jumper Clamps

Chance Insulated Jumper Clamps are used for bypassing work areas where equipment is under repair, the line is being upgraded, and for making temporary or other emergency repairs. The handles are tough, high impact strength, polyethylene with a wide hand guard flange.

ADEQUATE RUBBER GLOVES MUST BE WORN WHEN INSTALLING OR REMOVING JUMPER CLAMPS.

15 kV Ø-Ø Rated — 300 Amp Capacity

The G4758 series Jumper Clamp has a handle length of $5^{5}/s''$ below the handguard. The bearing type floating washer lower contact improves gripping action and prevents conductor scoring. All metal parts are of copper alloy to improve resistance to oxidation. The 300 amp continuous current rating is based on using 2/0 Jumper Cable on the tap side.

Style I per ASTM F 2321 Standard Specification

| Cat. | | Main Line Range | | Jumper Cable Range | | |
|-------|-------------|-----------------|--------|--------------------|------|-----------|
| No. | Description | Max. | Min. | Max. | Min. | Weight |
| | | 336.4 | #6 | | | 21/4 lb./ |
| G4758 | Pair* of | ACSR | Copper | 2/0 | #2 | 1.0 kg. |
| | Clamps | .721" | .162" | | | |

*Cat No. T6010003 for single clamp.

25 kV Ø-Ø Rated — 400 Amp Capacity

The G4765 series Jumper Clamp has the same polyethylene material in the handle as other Chance Jumper Clamps. The handle length below the handguard is $7^{1/_2}$ ". The 400 amp continuous current rating is based on using 4/0 Jumper Cable on the tap side.

Style I per ASTM F 2321 Standard Specification

| Cat. | | Main Lir | ne Range | Jumper Ca | able Range | |
|-------|-------------|----------|----------|-----------|------------|------------------------------------|
| No. | Description | Max. | Min. | Max. | Min. | Weight |
| | | 477 | #6 | | | 2 ³ / ₄ lb./ |
| G4765 | Pair* of | ACSR | Copper | 4/0 | #2 | 1.3 kg. |
| | Clamps | .883" | .162" | | | |

*Cat. No. T6010039 for single clamp.

35 kV Ø-Ø Rated — 400 Amp Capacity

The G4775 series Jumper Clamp has a larger contact opening for use on larger conductor. The handle length below the handguard is $8^{3}/s^{"}$. Easy to assemble, the connector assemblies are interchangeable between the two sizes of 15 kV Jumper Clamps. The 400 amp continuous current rating is based on using 4/0 Jumper Cable on the tap side.

Style I per ASTM F 2321 Standard Specification

| Cat. | | Main Line Range Jumper Cable Range | | | | |
|-------|-------------|------------------------------------|--------|------|------|---------|
| No. | Description | Max. | Min. | Max. | Min. | Weight |
| | | 954 | #6 | | | 3 lb./ |
| G4775 | Pair* of | ACSR | Copper | 4/0 | #2 | 1.4 kg. |
| | Clamps | 1.165" | .162" | | | |

*Cat. No. T6010040 for single clamp.





Jumper Cable rated Ø-Ø 15 kV with EPR Insulation/Jacket

Extremely flexible even at low temperatures, this cable features an insulation/jacket combination resistant to abrasion, oil, heat, moisture and ozone. The natural orange color of this mold-cured ethylene-propylene-base coating imparts high visibility. For easy identification, AWG size and voltage rating are embossed at 4-foot intervals.

For extended service life, an extruded screen interfaces insulation and conductor. This strand screen improves voltagestress control by adding dielectric strength and eliminating internal corona.

 $\label{eq:sceed_integration} Insulation and conductor screen meet and exceed ICEA-NEMA standard S-68-516.$

For easy handling in adverse conditions, conductors are extra flexible alloy-coated copper-stranded rope per ASTM B-189 or B-33.

Ampacity ratings are based on 90°C conductor temperature at 40°C ambient.







Type I per ASTM F 2321 Standard Specification

| | | | Approx. | Approx. | Approx. | Weight |
|-------------|------|------------|----------|---------|--------------|------------------|
| | Size | | Cond. | Cable | Ampacity | Per |
| Catalog No. | AWG | Stranding | Diameter | O.D. | Rating, Amps | 1000 Ft. |
| S10043 | #2 | 259/No. 26 | 0.322" | 0.779" | 200 | 438 lb./197 kg. |
| S10044 | 1/0 | 413/No. 24 | 0.404" | 0.863" | 260 | 598 lb./269 kg. |
| S10045 | 2/0 | 273/No. 23 | 0.455'' | 0.914" | 300 | 707 lb./318 kg. |
| S10046 | 4/0 | 437/No. 21 | 0.602" | 1.065" | 400 | 1047 lb./471 kg. |

Jumper Cable rated Ø-Ø 25 kV and 35 kV with EPR Insulation/Jacket

Extremely flexible even at low temperatures, this cable features an insulation/jacket combination resistant to abrasion, oil, heat, moisture and ozone. The orange color of this mold-cured ethylene-propylene-base coating imparts high visibility. For easy identification, AWG size and voltage rating are embossed at 4-foot intervals.

For extended service life, an extruded screen interfaces insulation and conductor. This strand screen improves voltagestress control by adding dielectric strength and eliminating internal corona. Insulation and conductor screen meet and exceed ICEA-NEMA standard S-68-516.

For easy handling in adverse conditions, conductors are extra flexible alloy-coated copper-stranded rope for ASTM B-189 or B-33.

Ampacity ratings are based on 90°C conductor temperature at 40°C ambient.



For connectors installed on cable or separate, see page 2304.

Type I per ASTM F 2321 Standard Specification

| | Size | | Approx. Cond. | Approx. Cable | Approx. Ampacity | Weight Per |
|--------------|------|-----------|------------------------|------------------|---------------------|--------------------|
| Catalog No. | AWG | Stranding | Diameter | O.D. | Rating, Amps | 1000 ft. |
| 25 kV Cable: | | | | | | |
| S11272 | 1/0 | 413 | 0.404" | 1.113" | 260 | 801 lb./ 360.5 kg. |
| S11273 | 2/0 | 266 | 0.450" | 1.160" | 300 | 913 lb./410.9 kg. |
| | | | 7 10 / 1 | | | |

Type I per ASTM F 2321 Standard Specification

| 35 kV Cable: | | | | | - | |
|--------------|-----|-----|--------|--------|-----|-------------------|
| S11274 | 1/0 | 413 | 0.404" | 1.287" | 260 | 985 lb./443.3 kg. |
| | | | | | | |

2303









Jumper Terminals for 15kV EPR Jumper Cable only

These shrouded terminals are for use with only grounding clamps (see Section 3000) and EPR Jumper Cable (Page 2305) as temporary jumper assemblies **(and should not be used with insulated jumper clamps, page 2302).** Extra heavy-duty shroud prevents excessive cable stress at terminal connection. To match pressuretype and threaded connectors on grounding clamps, both plug and stud terminal styles are available.

Two crimps in Section "A" with Burndy die numbers (or equivalent) below secure terminal to cable.

Anderson VERSA-CRIMP® compression tools are acceptable for making these crimped connections.

PLUG TERMINALS (NO THREADS) Type III per ASTM F 2321 Standard Specification

| | Catalog No. | | Weight |
|-------|---------------|----------|----------|
| Cable | One Unit, | Burndy | per |
| Size | Not Installed | Die No. | terminal |
| #2 | C6010190 | U243 | |
| 1/0 | C6010191 | U243 | 2 oz. |
| 2/0 | C6010192 | U166-206 | |
| 4/0 | C6010193 | U249 | |





STUD TERMINALS (THREADED) Type III per ASTM F 2321 Standard Specification

| #2 | C6010198 | U243 | |
|-----|----------|----------|-------|
| 1/0 | C6010199 | U243 | 3 oz. |
| 2/0 | C6010200 | U166-206 | |
| 4/0 | C6010201 | U249 | |
| | | | |

Jumper Clamp Connector Assemblies for 15kV, 25kV & 35kV Jumper Cable

Copper Connector Assemblies are necessary to join cable and clamp together on Jumper Clamps or Load Pickup Tools only. Threads are ⁵/₈-11 NC for all connectors. Each Catalog Number consists of a copper connector, nut and lockwasher.

Anderson VERSA-CRIMP[®] compression tools are acceptable for making these crimped connections.



C6002598

Type VI per ASTM F 2321 Standard Specification

| Catalog | | Burndy Die No. | No. of | Weight |
|----------|------------|-----------------|--------|--------|
| No. | Cable Size | (or equivalent) | Crimps | each |
| C6002598 | No. 2 | U165 | 2 | 4 oz. |
| C6002599 | 1/0 | U165 | 2 | 4 oz. |
| C6002600 | 2/0 | U165 | 2 | 4 oz. |
| C6002601 | 4/0 | U166 | 2 | 4 oz. |









2305

Insulated Jumper Sets for 15 kV, 25kV and 35 kV

Chance insulated jumper clamps are used for bypassing work areas where equipment is under repair, the line is being upgraded, and for making temporary or other emergency repairs.

Pre-assembled for popular distribution-system voltages, ten sets offer a choice of cable sizes. Based on cable size selected, continuous-current ratings for sets range from 200 to 400 amperes. All sets include cable listed below.

15 kV Jumper Cable

| Size, AWG | Continuous Current Rating, Amperes | Reference Cat. No. |
|--------------|---------------------------------------|-----------------------|
| #2 | 200 | S10043 |
| 1/0 | 260 | S10044 |
| 2/0 | 300 | S10045 |
| 4/0 | 400 | S10046 |

25 kV Jumper Cable

| | • | |
|-----|-----|--------|
| 1/0 | 260 | S11272 |
| 2/0 | 300 | S11273 |

35 kV Jumper Cable

| 1/0 | 260 | S11274 | | |
|-----|-----|--------|--|--|
| | | | | |

Ampacity ratings are based on 90°C conductor temperature at 40°C ambient.

AWG size and voltage rating are embossed at 4-ft. intervals on EPR (ethylene-propylene) insulated jacket.

Insulation and conductor screen meet and exceed ICEA-NEMA standard S-68-516. Extra-flexible conductors are alloy-coated copper-stranded rope per ASTM B-189 or B-33.



Jumper clamps feature "floatingwasher" design and high-impact polyethylene handles with wide handguard flange.

- Small 15kV clamp has 5⁵/8" handle below handguard.
- Large 15 kV and 25kV clamps each has 7¹/₂" handle below handguard.
- 35kV clamp has 8³/8" handle below handguard.

NOTE: Adequate rubber gloves must be worn when installing or removing jumper clamps. All Chance[®] Insulated Jumpers meet ASTM F 2321 Standard Specification.



Ordering Information Each set includes one 12 ft. cable assembled with two crimp connectors to two jumper clamps.

15 kV Sets

Style I, Type I, Class A per ASTM F 2321 Standard Specification Small-Conductor Range

| Catalog No. | Cable | Weight | Main L | ine Range |
|-------------|-------|---------------------------------|----------|-----------|
| C6010163 | #2 | 8 lb. / 3.6 kg. | Min. | Max. |
| C6010162 | 1/0 | 9 ³ /4 lb. / 4.4 kg. | #6 Sol. | 336.4MCM |
| C6010164 | 2/0 | 11 ¹ /4 lb. / 5 kg. | (0.162") | (0.721") |

Large-Conductor Range

| C6010171 | #2 | 8 lb. / 3.6 kg. | | |
|----------|-----|---------------------------------------------|------------|------------|
| C6010172 | 1/0 | 9 ³ / ₄ lb. / 4.4 kg. | #6 Sol. | 477 MCM |
| C6010173 | 2/0 | 11 ¹ / ₄ lb. / 5 kg. | Cu. | ACSR |
| C6010174 | 4/0 | 15 ¹ / ₄ lb. / 7 kg. | (0.162") | (0.883") |

25 kV Sets

Style I, Type I, Class A per ASTM F 2321 Standard Specification

| C6010269 | 1/0 | 10 lb. / 4.5 kg. | #6 Sol. | 477 MCM |
|----------|-----|--------------------------|----------|----------|
| C6010270 | 2/0 | $11^{1/2}$ lb. / 5.2 kg. | (0.162") | (0.883") |

35 kV Set Style I, Type I, Class A per ASTM F 2321 Standard Specification

| C6010271 | 1/0 | 15 ¹ / ₂ lb. / 7 kg. | #6 Sol. Cu. (0.162'') | 954 MCM ACSR (1.165") |
|----------|-----|--------------------------------------------|-----------------------------|-----------------------------|
|----------|-----|--------------------------------------------|-----------------------------|-----------------------------|





Insulated By-Pass Jumpers Rated for 15 kV phase-to-phase systems

Center support for easy applications

Available in four jumper-cable sizes, this by-pass jumper design features mid-span an orange 8-foot-long epoxy-resin, fiberglass-reinforced-plastic (FRP) tube. The rigid 1¹/₂-inch-O.D. tube serves as a support for easy handling of the jumper

set by rubber gloves or hot-line tools. This makes the unit especially handy when jumpering switchgear, reclosers or cutting in double deadends.

Completely pre-assembled

Two non-metallic hangers – one at each end of the FRP support tube – provide for parking the by-pass clamps while moving the jumper set into or out of the work area. Since the 16-foot-long jumper cable (with EPR jacket) is secured where it exits the FRP tube, 4 feet of cable extend from both ends of the rigid support.

Ordering Information

Insulated Jumper Sets Each: 16-ft. overall length (includes 8-ft. tube) with two C6001743 clamps applied on cable by copper connector assemblies

| Catalog | Cable Size, | Continuous Current | Weight |
|----------|-------------|--------------------|-----------|
| Number | AWG | Rating | (lb./kg.) |
| C6010260 | #2 - 15 kV | 200 amperes | 27/12.15 |
| C6010261 | 1/0 - 15 kV | 260 amperes | 29/13.05 |
| C6010262 | 2/0 - 15 kV | 300 amperes | 32/14.4 |
| C6010263 | 4/0 - 15 kV | 400 amperes | 37/16.65 |

i

Threaded compression assemblies – each comprising a connector, nut and lockwasher, all of copper – are applied at the cable ends. Two clamps (each a Chance C6001743) also come installed with cable strain-relief clamps to complete the by-pass jumper set.

Clamp Specifications

- Aluminum body with smooth jaws
- Bronze eyescrew with fine threads

Recommended Torque 250 inch-pounds

Main Line Range: Minimum #6 Sol Maximum 1590 k

#6 Solid Copper (0.162") 1590 kcmil ACSR (1.5")

Terminal threads 5/8"-11 UNC (plus cable strain-relief clamps)







34.5 kV BY-PASS JUMPER 20 kV Phase-to-Ground



A solid aluminum rod is epoxi-sealed inside a polypropylene tube which is silicone-sealed inside a $1^{1/2}$ " Chance Hot Stick handle.

Brass couplings are threaded onto the end of the solid rod, pinned and three feet of 4/0, clear — jacketed grounding cable is threaded into the coupling.

Current capacity is 400 amps.

| Catalog No. | Description | Approx. Wt. |
|-------------|--------------------------------|-------------|
| C6010036 | 8' Epoxiglas, 14' Over-all w/ | 18 lb./ |
| | Threaded Stud Terminals | 8.1 kg. |
| C6010037 | 10' Epoxiglas, 16' Over-all w/ | 21 lb./ |
| | Threaded Stud Terminals | 9.5 kg. |
| C6010038 | 12' Epoxiglas, 18' Over-all w/ | 24 lb./ |
| | Threaded Stud Terminals | 10.8 kg. |

JUMPER CABLE SUPPORT



Four swivel-action clamp assemblies with a cable diameter capacity of from 3/4" to 11/2" provide a non-slip grip for jumper cables, preventing sagging secondaries and cables touching the ground; each clamp is rated to carry 75 pounds.

The Epoxiglas $^{\mbox{$\mathbb R$}}$ arm is $2^{1\!/_2}{}''$ in diameter by 4' long and is available with wheel tightener for pole mounting.

| Catalog No. | Description | Weight |
|-------------|-----------------------------|-----------------|
| C6010013 | Cable Support, wheel binder | 25 lb./11.3 kg. |

INSULATED HANGER

The Insulated Hanger serves as a convenient parking stand while linemen are installing Jumper Clamps or Grounding Clamps on lines up to 34.5 kV. $1^{1}/_{4}$ " x 15" Epoxiglas[®] pole provides the insulated section. The bronze double stud fitting is $1/_{2}$ " x $3^{1}/_{2}$ " on each side.

| Catalog | Conduct | | |
|---------|--------------|-----------------|-------------------------------------------|
| No. | Max. | Min. | Weight |
| S16007 | 636 MCM ACSR | #8 Solid Copper | 2 ¹ / ₄ lb./1.0 kg. |







Insulated Jumper Sets for 15kV hotstick applications

All Chance[®] Insulated Jumpers meet ASTM F 2321 Standard Specification.



Reference 15 kV Jumper Cable

| Size, AWG | Continuous Current Rating, Amperes | Reference Cat. No. |
|--------------|---------------------------------------|-----------------------|
| #2 | 200 | S10043 |
| 1/0 | 260 | S10044 |
| 2/0 | 300 | S10045 |
| 4/0 | 400 | S10046 |

Ampacity ratings are based on 90°C conductor temperature at 40°C ambient.

AWG size and voltage rating are embossed at 4-ft. intervals on EPR (ethylene-propylene) insulated jacket.

Insulation and conductor screen meet and exceed ICEA-NEMA standard S-68-516. Extra-flexible conductors are alloy-coated copper-stranded rope per ASTM B-189 or B-33. Eight popular sets below serve most applications. Other clamps and cable combinations are available upon request.

Each factory-assembled set consists of :

- Two C-type aluminum grounding clamps with smooth jaws and bronze eyescrews Cat. No. C6001743 (see Catalog Section 3000) – Main Line Range:
 - #6 solid copper (0.162") through 1590kcmil ACSR (1.50");
- 15kV EPR-insulated jumper cable
 - Choice of four sizes;
- Choice of 12- or 15-foot length;
- Two threaded copper compression ferrules
- Installed on cable selected;
- Assembled to clamps.

Ordering Information

Each set includes cable in length listed assembled by two crimp connectors to two clamps.

#2 Cable Sets Style II, Type II, Class A

per ASTM F 2321 Standard Specification

| Catalog No. | Cable Length | Weight |
|-------------|--------------|-------------------------------|
| T6010281 | 12 feet | 8 ³ /4 lb. / 4 kg. |
| T6010282 | 15 feet | 10 lb. / 4.5 kg. |

1/0 Cable Sets Style II, Type II, Class A per ASTM F 2321 Standard Specification

| T6010283 | 12 feet | 10²/₃ lb. / 4.8 kg. |
|----------|---------|--------------------------|
| T6010284 | 15 feet | $12^{1/2}$ lb. / 5.6 kg. |

2/0 Cable Sets Style II, Type II, Class A per ASTM F 2321 Standard Specification

| T6010285 | 12 feet | 12 lb. / 5.4 kg. |
|----------|---------|------------------|
| T6010286 | 15 feet | 16 lb. / 6.4 kg. |

4/0 Cable Sets Style II, Type II, Class A per ASTM F 2321 Standard Specification

| - | | - |
|----------|---------|------------------|
| T6010287 | 12 feet | 16 lb. / 7.3 kg. |
| T6010288 | 15 feet | 19 lb. / 8.7 kg. |
| | | |



2308



CHANCE

2309

Load-Pickup Tool

- Rated for loads as high as 250 amperes
- For 15kV systems Fits #6 Copper through 795 kcmil ACSR

This tool can be used to pickup loads and carry 250 Amps at 15kV. Rubber gloves should be worn while installing. The head has a floating washer to minimize conductor damage as the jaws are installed. The contacts are spring loaded and can be closed by pulling an insulated lanyard, putting the operator away from the tool during pickup operations. The contacts cannot be teased closed.

The tool cannot be used as a load-break tool as the operator cannot open the contacts while the tool is on the conductor. A fiberglass rod, attached to the end of the lanyard, is used to recock the contacts, but because it must be inserted through the head of the tool, the lineman must remove the tool from the conductor before recocking.

An orange-tinted clear Lexan[®] housing permits easy visual inspection. A nylon handguard is used to keep the lineman's hand away from the energized area. By simply removing two screws in the handguard, the tool can be disassembled for inspection and maintenance.

All current carrying parts are copper or copper alloy and contacts are silver plated.

The recommended 15 kV jumper cables for this tool are #2 and 1/0.

It is recommended that the Load-Pickup Tool be inspected and cleaned after 25 operations or after 90 days. Clean all plastic parts with a soft cloth, damp with ethyl alcohol only.



Closing the Contacts



Recocking The Contacts

The contacts are opened by passing the recocking rod through the head on the tool and pushing the plunger to its fully opened position. This operation cannot be done when the tool is connected to the conductor.

Electrical Ratings: Nominal 15kV 3-phase or 8.3kV single phase circuits; **250 amps continuous current.**

Main Line Range: #6 Copper (0.162") minimum through 795 kcmil ACSR (1.108") maximum.



For pre-assembled Load-Pickup Tool/Jumper Cable sets, see page 2310. For Cable and Connector Assemblies see page 2305.

| Catalog Number | Description | Weight |
|----------------|------------------------------|-----------------|
| C4031631 | Load-Pickup Tool only | 6.4 lb./2.9 kg. |





Load-Pickup Tool Sets

• Rated for loads as high as 250 amperes

- Pre-assembled for 15kV systems
- Include load-pickup device, jumper clamp, 15kV cable

Rated to pickup and carry 250-amp loads at 15kV, each completely assembled set consists of Load-Pickup Tool, Jumper Clamp, 15kV Jumper Cable and cable connectors. Load-Pickup Tool and Jumper Clamp fit conductors from #6 Copper (0.162") through 795 ACSR kcmil (1.108").

Four standard sets include options for 10-foot or 12-foot lengths of either #2 or 1/0 Jumper Cable. Upon request, other pre-assembled sets are available combining other Chance-Jumper Clamps, other sizes and lengths of Jumper Cable and appropriate connectors (Catalog pages 2302 and 2306). Individual components also may be ordered for customer assembly of various combinations.

Operation and Maintenance

Load-Pickup Tool cannot be used to break loads because operator cannot open contacts while Tool is installed on conductor. To recock contacts, operator inserts fiberglass rod through head of Tool to push plunger to fully-opened position. Rod is supplied attached to end of operating lanyard. Pulling this insulated lanyard closes the spring-loaded contacts. Contacts cannot be "teased" closed. Bearing-type floating washers in jaws of Tool and Jumper Clamp assure secure gripping but minimal scoring of conductors during installation. WARNING: Adequate rubber gloves must be worn when using this equipment.

Clean and inspect Load-Pickup Tool after every 25 operations or at least once every 90 days. Clean all plastic parts with a soft cloth dampened with **only** ethyl alcohol. To disassemble Tool, simply remove two screws in handguard.

Construction Features

Load-Pickup Tool:

- Orange-tinted clear Lexan[®] housing permits easy visual inspection
- Current-carrying parts of Copper or Copper alloy
- Contact points are Silver plated
- Handguard of high-impact Nylon keeps hand away from energized area

Jumper Clamp:

- Current-carrying parts of Copper alloy
- Handles of high-impact Polyethylene
- Wide handguard flange keeps hand away from energized area

| | | - | - |
|----------|--------|-------------|-------------|
| Catalog | Cable | 15 kV Cable | Weight |
| Number | Length | Size | (lb./kg.) |
| C4031557 | 10 ft. | #2 | 17.75/8.05 |
| C4031558 | 12 ft. | #2 | 19.62/8.89 |
| C4031559 | 10 ft. | 1/0 | 20.8/9.43 |
| C4031560 | 12 ft. | 1/0 | 23.28/10.55 |

Ordering Information



All Units

Electrical Ratings: Nominal 15kV 3-phase or 8.3kV single phase circuits; **250 amps continuous current.**

Jumper Clamp: #6 Copper (0.162") minimum through 795 kcmil ACSR (1.108") maximum.







2311

Temporary Cutout Tools for 15kV and 27kV

To provide fuse protection during live-line maintenance, the temporary cutout tool simply clamps onto primary conductor with a Grip-All clampstick. Brass stud at lower end accepts clamp on temporary tap jumper. Insulated bushing and hot parts are from Chance Type C-Polymer cutouts: Upper contact with integral sleet shield and hooks for operation by loadbreak tool and lower trunnion of cast bronze. Fusetube must be fitted with fuselink rated no larger than 100 amps.

Options

Available in ratings for 15kV and 27kV systems, tools come with or without a pivot-lever closing device.

Standard Type

Fuse Tube 100 Amps Continuous Current

| Catalog | REPLACES | System | Interrupt | Weight | Fuseholder |
|------------|----------|--------|------------------------|------------------|-------------|
| Number | Cat. No. | Class | Capacity | (lb/kg.) | Replacement |
| PSC6010341 | C6001895 | 15kV | $10,000 \mathrm{Amps}$ | $7^{1/4}/3.3$ | T710112T |
| PSC6010342 | C6001896 | 27kV | 8,000 Amps | $10^{1/2} / 4.8$ | T710211T |

Solid Blade 300 Amps Continuous Current

| Catalog Number | REPLACES Cat. No. | System Class | Momentary Capacity | Weight (lb/kg.) | Solid Blade Replacement |
|-------------------|----------------------|-----------------|-----------------------|--------------------|----------------------------|
| PSC6010343 | C6002862 | 15kV | 12,000 Amps | $8^{1/4}/3.7$ | T710133T |
| PSC6010344 | C6002863 | 27kV | 12,000 Amps | $11^{1/2}/5.2$ | T710233T |

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| - | | | | | | |

| Main Line Range | | Tan |
|-------------------------|----------------------------|------------------|
| Minimum | Maximum | Stud |
| #6 Sol. Cu. (0.162") | 1033 kcmil ACSR (1.25") | 1/2" diameter |



Pivot-lever type permits closing by hookstick from side opposite the fusetube. (Plastisolcoated hook lever serves only to close cutout, not to break fuselink.)



| Catalog No. | REPLACES Cat. No. | System Class | Weight |
|-------------|----------------------|-----------------|----------------------------------------------|
| PSC6010345 | C6001944 | 15kV | 8 ³ / ₄ lb. / 3.97 kg. |
| PSC6010346 | C6001945 | 27kV | 12 lb. / 5.44 kg. |







Temporary Load Disconnect Tools

8.3/15kV & 15/27kV applications*

Superior design

Available in two sizes, this tool provides a temporary means of connecting and disconnecting equipment or circuits under load conditions. This tool design does not have a fuse and does not provide protection for fault or overcurrent conditions. Insulated bushing and hot parts are from Chance Type C-Polymer cutouts, including the tubular-copper disconnect blade.

An arc-chute-type interrupter gives the tool its excellent loadbreak capability. To interrupt load currents, the device makes use of a stainless-steel auxiliary blade within a Delrin[®] arc chute.

The tool simply clamps onto primary conductor with a Grip-All clampstick. Bronze stud at lower end accepts clamp on temporary tap jumper.

Easy operation

This self-contained loadbreak device operates by a simple disconnect stick. No special or portable tools are required to operate the unit.

To break the current, just insert a disconnect stick into the operating ring and rapidly open the device. In the process of opening, the spring-loaded auxiliary blade snaps out through the arc chute to elongate, cool and extinguish the confined arc. This loadbreaking operation is independent of the disconnect stick speed.

To provide a clearly visible break, the disconnect blade hangs in approximately a vertical position.



Ordering Information Temporary Load Disconnect Tools

Both models include protective carrying case and illustrated operating and maintenance instructions.



Unfused or unswitched loads can be disconnected by first installing this tool and a temporary bypass jumper in

parallel with the permanent tap connection. After closing the blade of the tool, the permanent tap can be disconnected. The load can then be dropped or reconnected by operating the blade of the tool. It should never be closed into a fault or opened during a fault.

Simple installation and removal

To install the tool, first remove its main blade. Then secure <u>both</u> clamps of a suitable temporary jumper onto the tap stud of the tool's lower hinge.

Use a Grip-All clampstick to install the tool onto the main line conductor. Use the clampstick to secure one of the jumper clamps onto the line with the load to be picked up.

Use a disconnect stick to place the blade in the lower hinge of the tool. Use the disconnect stick in the operating ring to close the blade according to safe work procedures. Take care when removing the disconnect stick to avoid opening the blade.

The equipment or circuit is now energized through the tool. Before removing the tool, first make up a permanent connection so there are two energizing paths.

Use a disconnect stick in the operating ring to open the blade according to safe work procedures and to remove the blade from the lower hinge of the tool. Use a clampstick to take the jumper clamp from the conductor and secure it on the tool stud. Then use the clampstick to remove the tool from the main line conductor.

Specifications (both models)

Max. loadbreak current: 300 amps Max. momentary rating: †12,000 asym amps

[†]This is a pass-through fault-current rating only. The tool should never be opened or closed when the current exceeds the maximum continuous load current of 300 amps.

Main line range (both models) Minimum: #6 solid copper (0.162" dia.)

Maximum: 1033 kcmil ACSR (1.25" dia.) Tap stud: ¹/²" diameter

| Catalog No. | REPLACES Cat. No. | Description | Disconnect Blade | Arc-Chute Assy. |
|-------------|-------------------|------------------------------------------|------------------|-----------------|
| PSC6010347 | C6002386 | *8.3/15kV Temporary Load Disconnect Tool | T730133T | T7200020 |
| PSC6010348 | C6002387 | *15/27kV Temporary Load Disconnect Tool | T730233T | 17300080 |

*For application on single-phase-to-neutral or three-phase solidly-grounded wye-connected circuits where recovery voltage does not exceed the max. design voltage of the device.





Tension Puller Switching Tool

Tested per OSHA & ASTM F711

- For line tension up to 4,000 lb. with manual hookstick switch
- Maximum ratings: 35 kV Ø-Ø, 600 amps continuous, 150 kV BIL

Applications and design

This tool permits a live overhead distribution line to be cut. By bearing the mechanical load, it helps create a parallel circuit. This averts service interruption while the cutting and related work are performed. It may be applied wherever a disconnect switch is desired for temporary sectionalizing and the tool is properly rated concerning line tension, continuous current, BIL and system voltage.

Applications that require cutting a conductor include:

- Deadend-structure construction
- Overhead switch installation on a structure
- In-line switch installation.

The Tension Puller Switching Tool basically combines two Chance products: Epoxiglas[®] insulated tension puller and LTD® line-tension disconnect switch.

For this special tool, weathershed skirts of a tough, lightweight polymeric have been bonded to the tension puller's $1^{1/2}$ "-diameter Epoxiglas pole. At both ends of the skirts, a locating pin aligns a compression clamp to secure the switch hot parts to the pole.

A bypass stud (1/2"-dia.) added at each end of the switch accepts clamps up to 3" wide. The rigid, H-frame copper switch blade opens to a standard 90°, or to 180° with a stop pin removed. Contact areas are silver-plated for high conductivity. Galvanized-steel hooks are provided for use with a portable loadbreak device. For easy opening and ice-breaking, the pull ring (11/4"-dia. eye) activates latch as a pry-lever.



Hooks on ends are fixed so as not to swivel. Safety latch on hooks has a spring-loaded gate able to rotate 135 degrees left or right from the closed position.

Selector lever on ratchet wrench is extra large for easier operation by hot line tools.

Installation and operation

Equipped with rings, this tool may be handled and operated by either hot-line tools or rubber-glove live-line techniques. Illustrated instructions included with each unit give application considerations and procedures for installation, operation and maintenance.

Suspended from hot-line wire grips with the disconnect switch closed, the tension puller works like a jack. Operating the ratchet wrench brings the tool's two ends closer. This reduces tension on the conductor between the tool's hooks.

Hot line jumpers sized to the application are installed on the conductor and the tool's bypass studs to create a parallel circuit. Before cutting the conductor, it is securely restrained. Once cut, its long tail is clamped back onto itself.

A properly rated portable loadbreak device may now be hung on the tool's disconnect hooks and used to open the switch.

For additional recommendations, refer to ANSI C37.35 IEEE Guide for the Application, Installation, Operation and Maintenance of High Voltage Air Disconnecting and Load Intrerrupter Switches.

Specifications

| Capacity: | 4,000 lb. (1,800 kg.) |
|------------------|----------------------------------|
| Working Range: | 58 to 70 in. (1,473 to 1,778 mm) |
| Maximum Take-up: | 12 in. (305 mm) |
| Insulation: | |
| Minimum | 24 in. (610 mm) |
| Maximum | 36 in. (914 mm) |
| Length: | 60 in. (1,524 mm) |



For proper installation, select from four sizes of hot-line wire grips shown on Chance catalog page 1258 and the full range of jumper equipment in this section. To secure cut end of conductor, tie back clamp C4000600, shown on Chance catalog page 2222, fits conductors ranging from #4 to 397.4 kcmil ACSR.



Operate disconnect switch with ${\bf only}\;$ a portable loadbreak tool.

Ordering Information

| Catalog No. | Description | Weight |
|-------------|-------------------------------|------------------|
| C4001907 | Tension Puller Switching Tool | 22 lb. / 9.9 kg. |

