

Jumpers & Load Pickup Tools

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NOTE: Because Hubbell has a policy of continuous product improvement, we reserve the right to change design and specifications without notice.

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



G4758
15kV

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 5⁵/₈" 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. No.	Description	Main Line Range		Jumper Cable Range		Weight
		Max.	Min.	Max.	Min.	
G4758	Pair* of Clamps	336.4 ACSR .721"	#6 Copper .162"	2/0	#2	2 ¹ / ₄ lb./ 1.0 kg.

*Cat No. T6010003 for single clamp.



G4765
25kV

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 7¹/₂". 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. No.	Description	Main Line Range		Jumper Cable Range		Weight
		Max.	Min.	Max.	Min.	
G4765	Pair* of Clamps	477 ACSR .883"	#6 Copper .162"	4/0	#2	2 ³ / ₄ lb./ 1.3 kg.

*Cat. No. T6010039 for single clamp.



G4775
35kV

35 kV Ø-Ø Rated — 400 Amp Capacity

The G4775 series Jumper Clamp has a larger contact opening for use on larger conductor distribution lines. The handle length below the handguard is 8³/₈". 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. No.	Description	Main Line Range		Jumper Cable Range		Weight
		Max.	Min.	Max.	Min.	
G4775	Pair* of Clamps	954 ACSR 1.165"	#6 Copper .162"	4/0	#2	3 lb./ 1.4 kg.

*Cat. No. T6010040 for single clamp.

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

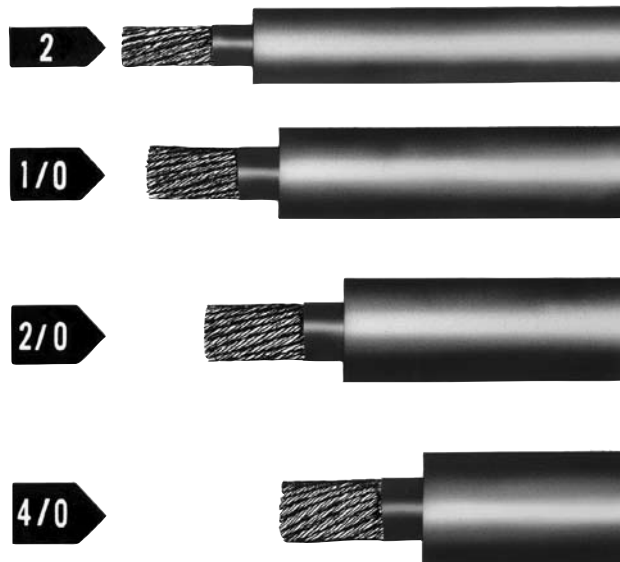
Extremely flexible even at low temperatures, this cable features an insulation/jacket combination resistant to abrasion, oil, heat, moisture and ozone. The natural orange color of this mold-cured ethylene-propylene-base coating imparts high visibility. For easy identification, AWG size and voltage rating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

For extended service life, an extruded screen interfaces insulation and conductor. This strand screen improves voltage-stress 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 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

Catalog No.	Size AWG	Stranding	Approx. Cond. Diameter	Approx. Cable O.D.	Approx. Ampacity Rating, Amps	Weight Per 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

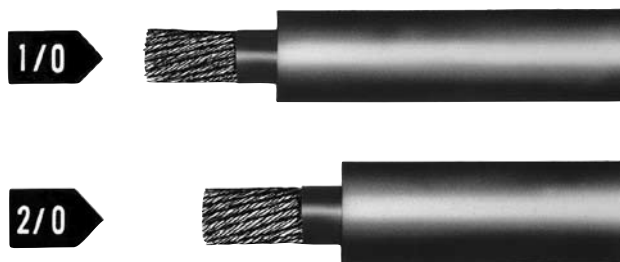
Extremely flexible even at low temperatures, this cable features an insulation/jacket combination resistant to abrasion, oil, heat, moisture and ozone. The orange color of this mold-cured ethylene-propylene-base coating imparts high visibility. For easy identification, AWG size and voltage rating are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

For extended service life, an extruded screen interfaces insulation and conductor. This strand screen improves voltage-stress 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 next page.



Type I per ASTM F 2321 Standard Specification

Catalog No.	Size AWG	Stranding	Approx. Cond. Diameter	Approx. Cable O.D.	Approx. Ampacity Rating, Amps	Weight Per 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.

Type I per ASTM F 2321 Standard Specification

Catalog No.	Size AWG	Stranding	Approx. Cond. Diameter	Approx. Cable O.D.	Approx. Ampacity Rating, Amps	Weight Per 1000 ft.
35 kV Cable:						
S11274	1/0	413	0.404"	1.287"	260	985 lb./443.3 kg.

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 2306) 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 pressure-type 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

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



STUD TERMINALS (THREADED)

Type III per ASTM F 2321 Standard Specification

#2	C6010198	U243	3 oz.
1/0	C6010199	U243	
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.



Type VI per ASTM F 2321 Standard Specification

Catalog No.	Cable Size	Burndy Die No. (or equivalent)	No. of Crimps	Weight 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.

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
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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 “floating-washer” 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 Line Range	
			Min.	Max.
C6010163	#2	8 lb. / 3.6 kg.		
C6010162	1/0	9 ³ / ₄ lb. / 4.4 kg.	#6 Sol. Cu. (0.162")	336.4MCM ACSR (0.721")
C6010164	2/0	11 ¹ / ₄ lb. / 5 kg.		

Large-Conductor Range

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

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. Cu. (0.162")	477 MCM ACSR (0.883")
C6010270	2/0	11 ¹ / ₂ lb. / 5.2 kg.		

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")
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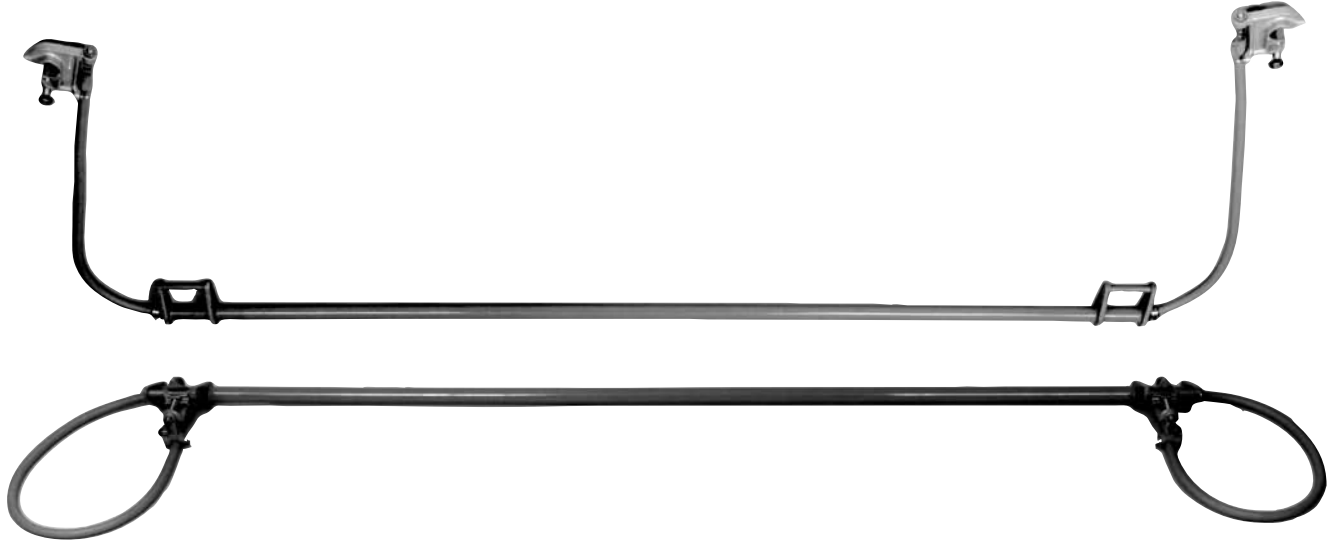
Insulated By-Pass Jumpers

- *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 1½-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.



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.

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

Clamp Specifications

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

Recommended Torque 250 inch-pounds

Main Line Range:

Minimum #6 Solid Copper (0.162")

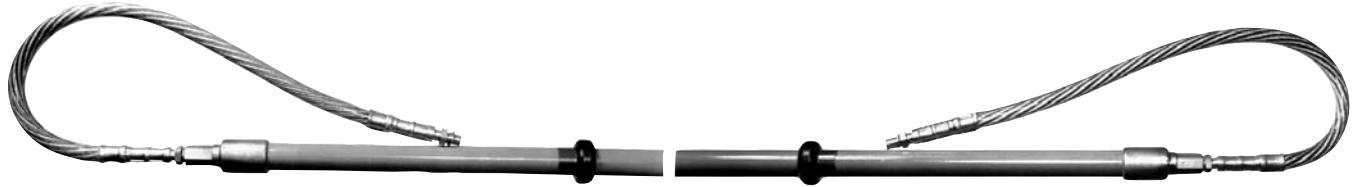
Maximum 1590 kcmil ACSR (1.5")

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 1½" 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/ Threaded Stud Terminals	18 lb./ 8.1 kg.
C6010037	10' Epoxiglas, 16' Over-all w/ Threaded Stud Terminals	21 lb./ 9.5 kg.
C6010038	12' Epoxiglas, 18' Over-all w/ Threaded Stud Terminals	24 lb./ 10.8 kg.

JUMPER CABLE SUPPORT



Four swivel-action clamp assemblies with a cable diameter capacity of from ¾" to 1½" 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® arm is 2½" 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. 1¼" x 15" Epoxiglas® pole provides the insulated section. The bronze double stud fitting is ½" x 3½" on each side.



Catalog No.	Conductor Range		Weight
	Max.	Min.	
S16007	636 MCM ACSR	#8 Solid Copper	2¼ lb./1.0 kg.

Insulated Jumper Sets for 15kV hotstick applications

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



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.

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.

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	10 ² / 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.

Load-Pickup Tool

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



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.

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 15kV 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.

For pre-assembled Load-Pickup Tool/Jumper Cable sets, see page 2311. 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

Ordering Information

Catalog Number	Cable Length	15 kV Cable Size	Weight (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



Recocking the Contacts



Closing the Contacts



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.

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 clamp-stick. Brass stud at lower end accepts clamp on temporary tap jumper. Insulated bushing and hot parts are from Chance Type C-Polymer cut-outs: 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

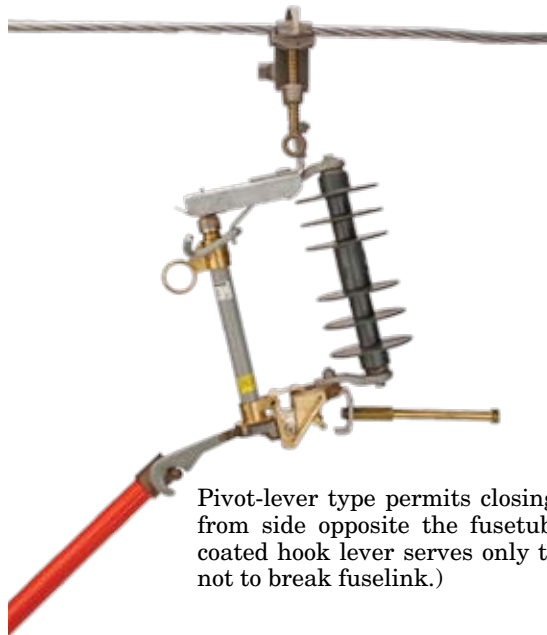
Catalog Number	REPLACES Cat. No.	System Class	Interrupt Capacity	Weight (lb/kg.)	Fuseholder Replacement
PSC6010341	C6001895	15kV	10,000 Amps	7¼ / 3.3	T710112T
PSC6010342	C6001896	27kV	8,000 Amps	10½ / 4.8	T710211T

Solid Blade 300 Amps Continuous Current

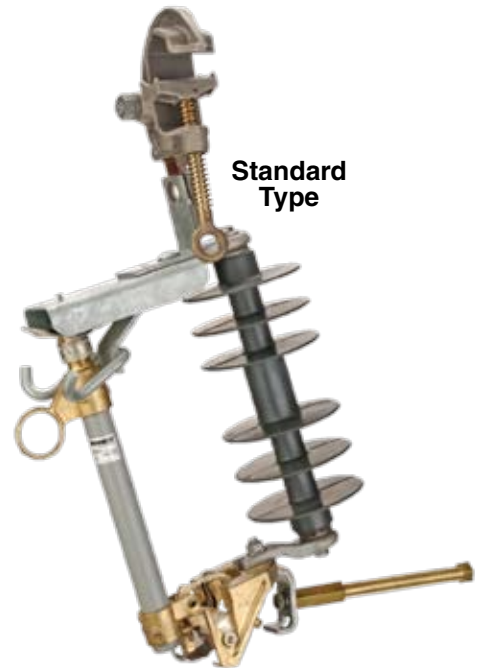
Catalog Number	REPLACES Cat. No.	System Class	Momentary Capacity	Weight (lb/kg.)	Solid Blade Replacement
PSC6010343	C6002862	15kV	12,000 Amps	8¾ / 3.7	T710133T
PSC6010344	C6002863	27kV	12,000 Amps	11½ / 5.2	T710233T

All Models:

Main Line Range		Tap Stud
Minimum	Maximum	
#6 Sol. Cu. (0.162")	1033 kcmil ACSR (1.25")	½" diameter



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



Standard Type



Pivot-Lever Type

Catalog No.	REPLACES Cat. No.	System Class	Weight
PSC6010345	C6001944	15kV	8¾ 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.

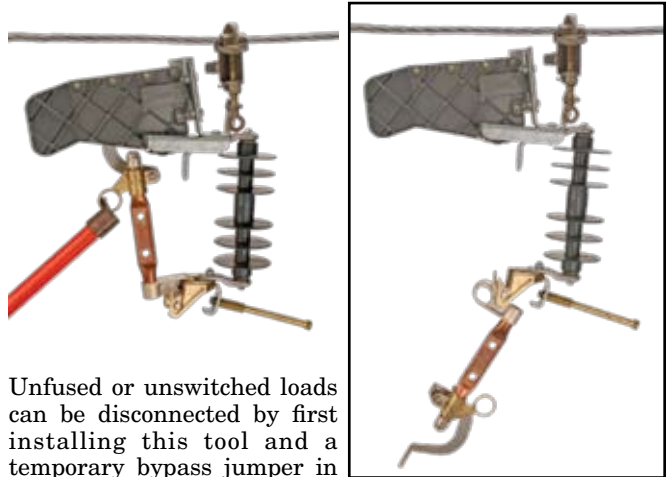


Ordering Information Temporary Load Disconnect Tools

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

Catalog No.	REPLACES Cat. No.	Description
PSC6010347	C6002386	*8.3/15kV Temporary Load Disconnect Tool
PSC6010348	C6002387	*15/27kV Temporary Load Disconnect Tool

*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.



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 both 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: ½" diameter

Tension Puller Switching Tool

- For line tension up to 4,000 lb. with manual hookstick switch
- Maximum ratings: 35 kV Ø-Ø, 600 amps continuous, 150 kV BIL
- U.S. Patent 4,661,662 and subject to patents in certain other countries

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:

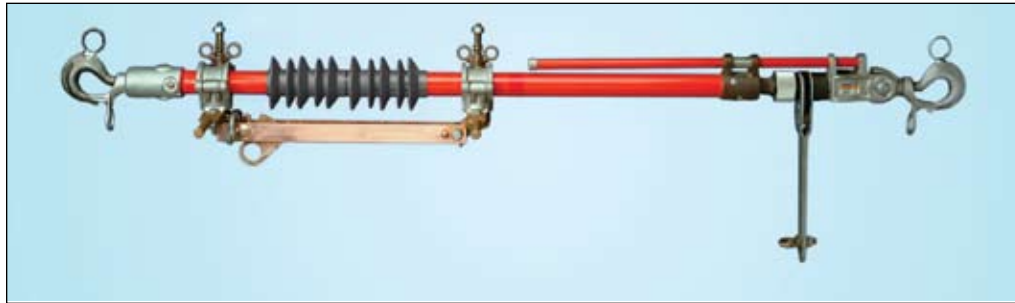
- Deadend-structure construction
- Overhead switch installation on a structure
- In-line switch installation.

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, light-weight polymeric have been bonded to the tension puller's 1½"-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 (½"-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 (¼"-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 Interruption Switches.



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 **only** a portable loadbreak tool.

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)

Ordering Information

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