



TRI-CHEM

We've got your back.



SAFETY CATALOG



The Facility Maintenance Solutions Company

Welcome to Tri-Chem Corporation. For over 45 years we have been helping organizations, just like yours, with their toughest facility maintenance problems. Over the years, our company has evolved into specialized divisions; Coating, Patching, and Sealing, Industrial Maintenance and Tooling and Safety.

Tri-Chem Corporation, The Coating, Patching and Sealing Company, is dedicated to manufacturing easy-to-use and application-specific products. We are constantly expanding our line of 100% Solids Epoxy, Rubber Based, Urethane and Acrylic system patches and sealers to meet and exceed our customer's standards and unique applications.

We challenge you to find a hole or crack we can't patch or a floor we can't seal and coat!

Tri-Chem Corporation, The Industrial Cleaning Company, has been degreasing, emulsifying, sanitizing, and shining facilities and equipment for over 45 years. Thousands of plants have utilized our products and expertise to solve the toughest cleaning problems imaginable.

Try and find a maintenance problem that we can't solve!

Tri-Chem Corporation, The Tooling Company, helps our clients solve their toughest machining, drilling and cutting jobs. Our line of flash protection and double insulated tooling, year after year, help protect and achieve OSHA compliance for companies just like yours.

Let's work together to make your facility SAFE!

Give us a call.



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ELECTRICAL SAFETY REQUIREMENTS FOR EMPLOYEE WORKPLACES PERSONAL AND OTHER PROTECTIVE EQUIPMENT

Table 3-3.9.3 Protective Clothing Characteristics

Typical Protective Clothing Systems			
Hazard Risk Category	Clothing Description (Number of clothing layers is given in parentheses)	Total Weight oz/yd ²	Minimum Arc Thermal Performance Exposure Value (ATPV)* or Breakopen Threshold Energy (E _{BT})* Rating of PPE cal/cm ²
0	Untreated cotton (1)	4.5 - 7	HAZ
1	FR shirt and FR pants (1)	4.5 - 8	M
2	Cotton underwear plus FR shirt and FR pants (2)	9 - 12	W
3	Cotton underwear plus FR shirt and FR pants plus FR coveralls (3)	16 - 20	25
4	Cotton underwear plus FR shirt and FR pants plus double layer switching coat and pants (4)	24 - 30	40

*ATPV is defined in the ASTM P 558 standard arc test method for flame resistant (FR) fabrics as the incident energy that would just cause the onset of a second degree burn (1.2 cal/cm²). E_{BT} is reported according to ASTM P 558 and is defined as the highest incident energy which did not cause FR fabric breakopen and did not exceed the second-degree burn criteria. E_{BT} is reported when ATPV cannot be measured due to FR fabric breakopen.

3-3.9.5 Arc Flash Protective Equipment

3-3.9.5.1 Flash Suits. Flash suits and their closure design shall permit easy and rapid removal. The entire flash suit, including the window, shall have energy absorbing characteristics that are suitable for the arc-flash exposure.

3-3.9.5.2 Face Protection. Face shields made of polycarbonate material are more appropriate for use in situations with relatively low radiation exposure. Safety glasses and goggles provide lesser protection, but in low risk tasks they may be justified if the task involves substantial physical work in combination with good visual requirements. Eye protection (safety glasses or goggles) shall always be worn under face shields or hoods.

3-3.9.5.3 Hand Protection. Gloves made from layers of flame resistant material provide the highest level of hand protection. Heavy duty leather gloves also provide good protection. Where voltage-rated gloves are used, leather protectors shall be worn over the rubber gloves. The leather protectors also provide good arc-flash protection for the hands.

3-3.9.5.4 Foot Protection. Heavy-duty leather work shoes normally provide a significant degree of protection to the feet. They are recommended for all tasks and shall be used for incident energy exposure levels 5 cal/cm², and higher (Hazard/Risk Category 2, and higher).

3-3.9.6 Care and Maintenance of FR Clothing and FR Flash Suits.

3-3.9.6.1 Inspection FR apparel shall be inspected before each use. Work clothing or flash suits that are contaminated, greasy, worn, or damaged to the extent their protective qualities are impaired, shall be cleaned, repaired or replaced. Pro-

TECTIVE items that become soiled with grease or flammable liquids shall be removed from service and cleaned.

3-3.9.6.2 Manufacturer's Instructions. The garment manufacturer's instructions for care and maintenance of FR apparel shall be followed.

3-3.9.7 Clothing Material Characteristics.

NOTE: Flame-retardant treated cotton, meta-aramid, para-aramid, and poly-benzimidazole (PBI) fibers provide thermal protection. Para-aramid adds strength to a fabric to prevent the fabric from breaking open due to the blast energy of the arc.

3-3.9.7.1 Melting. Synthetic materials, such as polyester, nylon, and synthetic-cotton blends shall not be used. These materials will melt into the skin when exposed to high temperatures and aggravate the burn injury.

3-3.9.7.2 Flammability. Cotton and polyester-cotton, silk, wool, and nylon fabrics are flammable. Flame-retardant treated cotton, meta-aramid, para-aramid, and PBI fabrics may ignite but will not continue to burn after the ignition source is removed. Clothing made from natural materials, such as cotton, wool, or silk shall be considered acceptable if it is determined by flash hazard analysis that the fabric will not ignite and continue to burn under the arc conditions to which it will be exposed.

NOTE: The weight of the fabric is a factor in meeting this requirement.

3-3.9.8 Clothing not Permitted. Clothing made from synthetic materials such as acetate, nylon, polyester, rayon, either alone or in blends with cotton, shall not be worn.

PROTECTIVE EQUIPMENT: Not just a good idea... IT'S THE LAW

For energized circuits in excess of 50 volts A.C.

1910.333 Safeguards for personnel protection

- (ii) Qualified persons. When a qualified person is working in the vicinity of overhead lines, whether in an elevated position or on the ground, the person may not approach or taken any conductive object without an approved insulating handle closer to exposed energized parts than shown in Table S-5 unless:
 - a. The person is insulated from the energized part (gloves, with sleeves if necessary, rated for the voltage involved are considered to be insulation of the person from the energized part on which work is performed), or
 - b. The energized part is insulated both from all other conductive objects at a different potential and from the person, or
 - c. The person is insulated from all conductive objects at a potential different from that of the energized part.

[TABLE S-5]

Voltage Range (phase to phase)	Minimum Approach Distance
300V and less	Avoid Contact
Over 300V, not over 750V	1 ft., 0 in. (30.5 cm)
Over 750V, not over 2kV	1 ft., 6 in. (46 cm)
Over 2kV, not over 15kV	2 ft., 0 in. (61 cm)
Over 15kV, not over 37kV	3 ft., 0 in. (91 cm)
Over 37kV, not over 87.5kV	3 ft., 6 in. (107 cm)
Over 87.5kV, not over 121kV	4 ft., 0 in. (122 cm)
Over 121kV, not over 140kV	4 ft., 6 in. (137 cm)

1926.415 29 CFR Ch XVII (7-1-94 Edition)

(g) Use of equipment. (1) Work on energized equipment. Only qualified persons may work on electric circuit parts of equipment that have not been de-energized under the procedures of paragraph (b) of this section. Such persons shall be capable of working safely on energized circuits and shall be familiar with the proper use of special precautionary techniques, personal protective equipment, insulating and shielding materials, and insulated tools.

1910.335 Safeguards for Personal Protection

(a) Use of protective equipment. (1) Personal protective equipment. Employees working in areas where there are potential electrical hazards shall be provided with, and shall use, electrical protective equipment that is appropriate for the specific parts of the body to be protected and for the work to be performed.

NOTE: Personal protective equipment requirements are contained in subpart 1 of this part.

- (ii) Protective equipment shall be maintained in a safe, reliable condition and shall be periodically inspected or tested, as require by 1910.137.
- (iii) If the insulating capacity of protective equipment may be subject to damage during use, the insulating material shall be protected (for example, an outer covering of leather is sometime used for the protection of rubber insulating material).
- (iv) Employees shall wear non-conductive head protection whenever there is a danger of head injury from electric shock or burns due to contact with exposed energized parts.
- (v) Employees shall wear protective equipment for the eyes or face wherever there is danger of injury to the eyes or face from electric arc or flashes or from flying objects resulting from electric explosion.

(2) General protective equipment and tools. (i) When working near exposed energized conductors or circuit parts, each employee shall use insulated tools or handling equipment if the tools or handling equipment might make contact with such conductors or parts. If the insulating capability of insulated tools or handling equipment is subject to damage, the insulating material shall be protected.

(A) Fuse handling equipment, insulated for the circuit voltage, shall be used to remove or install fuses hen the fuse terminals are energized.

Ropes and handlines used near exposed energized parts shall be non-conductive.

1926.416 29 CFR Ch. XVII (7-1-94 Edition)

(4) Work on energized equipment. Only qualified person may work on electric circuit parts or equipment that have not been de-energized under the procedures of 1926.17 (d) of this section. Such persons shall be capable of working safely on energized circuits and shall be familiar with the proper use of special precautionary techniques, personal protective equipment, insulation and shielding materials, and insulated tools.

National Electrical Code 2002
By: National Fire Protection Association

Published: September 2001
Effective: January 2002

1. OSHA has identified NFPA 70E to be part of and integral to its electrical safety rule making effort.
2. OSHA maintains representation on the NFPA committees, thereby helping to ensure that NFPA 70E is consistent with the OSHA requirements.
3. NFPA 70E is more detailed and performance-oriented than the equivalent OSHA standards; consequently, 70E is easier to employ as a basis for a good electrical safety program.

FLASH PROTECTION: Sec. 110-15 new NEC

This new section will require you to mark panelboards, switchboards, and motor control centers (installed in buildings other than residential occupancies) in the field to indicate the incident energy in calories per square centimeters for a worker at a distance of 18 inches. These requirements attempt to correlate with rule appearing in NFPA 70E (2000). Electrical Safety Requirements for Employee Workplaces.

The details above were established to enforce the following OSHA directives:

- OSHA CFR 1910.269 "...prohibits clothing, that when exposed to electrical arcs, could increase the extent of injury that would be sustained by the employee." (I)(6)(iii)
- An employee must wear flame-resistant (FR) clothing to work around energized parts.
- To evaluate FR clothing materials in order to measure the heat transferred through the fabric, two values are calculated: arc-thermal performance value (ATPV) and heat attenuation factor (HAF).
- ATPV is the minimum energy causing the predicted onset of second-degree burns.
- HAF is the percentage of total energy of the arc that the fabric prevents from passing through
- Heavier or layers of FR fabrics give high ATP values.
- Layering of non-FR clothing under and outer shell of FR fabric can give a false sense of security. If the outer layer should break open, the inner clothing could ignite.
- OSHA requires that each employer must assess the potential hazards in the work environment and determine the appropriate clothing materials using ASTM PS57-97.
- Always do a hazard assessment. You will need to know electrical system voltage, fault current available, number of phases, arc time duration, estimated arc gap, minimum distance from the arc, and configuration of the arc.

NFPA 70E COMPLIANCE GUIDE

NFPA 70E COMPLIANCE GUIDE

This guide shall only be used in conjunction with performing the necessary calculations contained in a flash hazard analysis to determine the proper cal/cm². If the results of the calculations exceed the cal/cm² that correspond to the HRC found on this guide you must use clothing that complies with the calculation.

Panelboards Rated 240V and Below - Notes 1				600V Class Switchgear (with power circuit breakers or fused switches) - Note 5				NEMA E2 (fused contractor) Motor Starters, 2.3kV through 7.2kV			
TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC
Circuit Breaker (CB) of fused switch operation with covers on	1	1	0	CB or fused switch operation with enclosure doors closed	1	1	0	Contactor operation with enclosure doors closed	1	1	0
CB or fused switch operation with covers off	1	1	0	Reading a panel meter while operating a meter switch	1	1	0	Reading a panel meter while operating a meter switch	1	1	0
Opening hinged covers (to expose live parts)	1	1	0	Work on control circuit with exposed live parts 120V or below, exposed	Y	Y	0	Work on control circuits with exposed live parts 120V or below, exposed	Y	Y	0
Removal of bolted covers (to expose live parts)	1	1	1	CB or fused switch operation with enclosure doors open	1	1	1	Insertion or removal (racking) of starters from cubicles open or doors closed	1	1	1
Perform infrared thermography and other non-contact inspection outside the restricted approach boundary	1	1	0	Insertion or removal (racking) of CB's from cubicles, doors closed	1	1	1	Contactor operation with enclosure doors open	1	1	q4
Remove or install CB's or fused switches	Y	Y	1	Opening hinged covers (to expose live parts)	1	1	q4	Opening hinged covers (to expose live parts)	1	1	*
Work on exposed live parts, including voltage testing	Y	Y	1	Application of safety grounds, after voltage test	Y	1	q4	Application of safety grounds, after voltage test	1	1	*
Work on exposed live parts of utilization equipment fed directly by a branch circuit on the panel board	Y	Y	1	Work on exposed live parts, including voltage testing	Y	Y	q4	Work on control circuits with exposed live parts > 120V exposed	Y	1	*
Panelboards / Switchboards Rated 240V to 600V (with molded case or insulated case CB's) - Notes 1				Other 600V Class (277V to 600V, Nom.) Equipment - Note 2 (except as indicated) Lighting or small power transformer (600V Max)				Metal Clad Switchgear, 1kV and Above			
TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC
CB or fused switch operation with covers on	1	1	0	Opening hinged covers (to expose bare, energized parts)	1	1	1	Reading a panel meter while operating a meter switch	1	1	0
CB or fused switch operation with covers off	Y	1	1	Removal of bolted covers (to expose bare, energized parts)	1	1	q4	CB operation with enclosure doors closed	1	1	q
Perform infrared thermography and other non-contact inspection outside the restricted approach boundary	1	1	1	Application of safety grounds, after voltage test	Y	1	q4	Work on control circuits with exposed live parts 120V or below, exposed	Y	Y	q
Work on exposed live parts, including voltage testing	Y	Y	q4	Work on energized parts, including voltage testing	Y	Y	q4	Opening hinged covers (to expose live parts)	1	1	*
Work on exposed live parts of utilization equipment fed directly by a branch circuit of the panelboard or switchboard	Y	Y	q4	Other 600V Class (277V to 600V, Nom.) Equip - Revenue meters (kWh at primary voltage & current)				CB operation with enclosure doors open	1	1	1
600V Class Motor Control Centers (MCC's) - Notes 2 (except as indicated)				TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	Insertion or removal (racking) of CB's from cubicles, doors open or closed	1	1	1
TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	Cable trough or tray cover removal or installation	1	1	1	Removal of bolted covers (to expose live parts)	1	1	1
CB or fused switch or starter operation with enclosure doors closed	1	1	0	Miscellaneous equipment over removal or installation	1	1	1	Opening voltage transformer or Control power transformer compartments	1	1	1
Reading a panel meter while operating a meter switch	1	1	0	Application of safety grounds, after voltage test	Y	1	q4	Application of safety grounds, after voltage test	Y	1	1
Work on control circuits with exposed live parts 120V or below, exposed	Y	Y	0	Work on exposed live parts, including voltage testing	Y	Y	q4	Work on exposed live parts, including voltage testing	Y	Y	1
CB or fused switch or starter operation with enclosure doors open	1	1	1	Insertion or removal	Y	1	q4	Work on control circuits with exposed live parts > 120V exposed	Y	Y	1
Opening hinged covers (to expose live parts)	1	1	1	Minimum Clothing Requirements				Perform infrared thermography and other non-contact inspections outside the restricted approach boundary	1	1	*
Perform infrared thermography and other non-contact inspection outside the restricted approach boundary	1	1	1	HRC	Protective Clothing	Minimum Cal/cm ²	PPE (Safety glasses, leather safety shoes required for all)	Arc Resistant Switchgear type 1 or 2 (For clearing time of < 0.5 sec with a prospective fault current not to exceed the Arc Resistant rating of the equipment)			
Removal of bolted covers (to expose live parts)	1	1	1	0	Natural fiber long-sleeved shirt and pants OR 1 layer Non-melting, flameable materials (i.e., untreated cotton, wool, rayon, or silk, or blends of these materials) with a fabric weight at least 4.5 oz/yd ² . See 130.7(C)(11).	N/A	Hard Hat	TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC
Application of safety grounds, after voltage test	Y	1	q4	1	Denim jeans and FR long-sleeved shirt OR Jacket, parka or rainwear	1	Hard Hat, Arc-Rated Face Shield* Leather Gloves	CB operation with door closed	1	1	0
Work on exposed live parts, including voltage testing	Y	Y	q4	q	FR long-sleeved shirt and pants OR FR coveralls	f	Hard Hat, Arc-Rated Face Shield, OR Flash Suit Hood, Hearing Protection, Leather Gloves	Insertion or removal (racking) of CB's from cubicles, door closed	1	1	0
Work on control circuits with live parts > 120V exposed	Y	Y	q4	q4	FR long-sleeved shirt and pants OR FR coveralls	f	Hard Hat, Hearing Protection, Arc-Rated Face Shield, Leather Gloves and 8 cal/cm ² + baladava (sock hood)* OR Multi-Layer Switching Hood	Insertion or removal (racking) of CB's from cubicles, door open	1	1	1
Insertion or removal of individual starter 'buckets' from MCC - Note 4	Y	1	1	*	Multi-Layer flash suit over FR long-sleeved shirt and pants over natural fiber short-sleeved T-shirt and pants OR Multi-Layer flash suit over FR coveralls over natural fiber short-sleeved T-shirt and pants, OR 3 layers, Cotton underwear plus two FR coveralls. See 130.7(C)(11).	qm	Hard Hat, Multi-Layer Switching Hood, Hearing Protection, Leather Gloves	Work on control circuits with exposed live parts 120V or below	Y	Y	q
Work on exposed live parts of utilization equipment fed directly by a branch circuit of the motor control center	Y	Y	q4	1	Multi-Layer flash suit Jacket & Pants (coveralls) over FR long-sleeved shirt and pants over natural fiber short-sleeved T-shirt and pants OR Multi-Layer flash suit Jacket & Pants (coveralls) over FR coveralls over natural fiber short-sleeved T-shirt and pants, OR 3 layers, Cotton underwear plus two FR coveralls. See 130.7(C)(11).	40	Hard Hat, Multi-Layer Switching Hood, Hearing Protection, Leather Gloves	Insertion or removal (racking) of ground and test device with door closed	1	1	0
Minimum Clothing Requirements				Other Equipment 1kV and Above - Metal enclosed interrupter switch gear, fused or unfused				Insertion or removal (racking) of voltage transformers on or off the bus, door closed	1	1	0
HRC	Protective Clothing	Minimum Cal/cm ²	PPE (Safety glasses, leather safety shoes required for all)	TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	Switch operation, doors closed	1	1	q
0	Natural fiber long-sleeved shirt and pants OR 1 layer Non-melting, flameable materials (i.e., untreated cotton, wool, rayon, or silk, or blends of these materials) with a fabric weight at least 4.5 oz/yd ² . See 130.7(C)(11).	N/A	Hard Hat	Outdoor disconnect switch operation (gang-operated, from grade)	Y	1	q	Insulated cable exam, in open area	Y	1	q
1	Denim jeans and FR long-sleeved shirt OR Jacket, parka or rainwear	1	Hard Hat, Arc-Rated Face Shield* Leather Gloves	Opening hinged covers (to expose live parts)	1	1	*	Outdoor disconnect switch operation (hookstick operated)	Y	Y	*
q	FR long-sleeved shirt and pants OR FR coveralls	f	Hard Hat, Arc-Rated Face Shield, OR Flash Suit Hood, Hearing Protection, Leather Gloves	Removal of bolted covers (to expose live parts)	1	1	1	Insulated cable examination, in manhole or other confined space	Y	1	1
q4	FR long-sleeved shirt and pants OR FR coveralls	f	Hard Hat, Hearing Protection, Arc-Rated Face Shield, Leather Gloves and 8 cal/cm ² + baladava (sock hood)* OR Multi-Layer Switching Hood	Work on exposed live parts, including voltage testing	Y	Y	1	Work on exposed live parts, including voltage testing	Y	Y	1
*	Multi-Layer flash suit over FR long-sleeved shirt and pants over natural fiber short-sleeved T-shirt and pants OR Multi-Layer flash suit over FR coveralls over natural fiber short-sleeved T-shirt and pants, OR 3 layers, Cotton underwear plus two FR coveralls. See 130.7(C)(11).	qm	Hard Hat, Multi-Layer Switching Hood, Hearing Protection, Leather Gloves	Switch operation of arc-resistant construction, tested in accordance with IEC C37.20.7, doors closed only	1	1	0				
1	Multi-Layer flash suit Jacket & Pants (coveralls) over FR long-sleeved shirt and pants over natural fiber short-sleeved T-shirt and pants OR Multi-Layer flash suit Jacket & Pants (coveralls) over FR coveralls over natural fiber short-sleeved T-shirt and pants, OR 3 layers, Cotton underwear plus two FR coveralls. See 130.7(C)(11).	40	Hard Hat, Multi-Layer Switching Hood, Hearing Protection, Leather Gloves								

* If the notes cannot be satisfied, work must be performed de-energized.

- Note 1 Maximum of 25kA short circuit current available, *and maximum of 0.03 second (2 cycle) fault clearing time.
Note 2 Maximum of 65kA short circuit current available, *and maximum of 0.03 second (2 cycle) fault clearing time.
Note 3 For < 10kA short circuit current available, the HRC required may be reduced by one category.
Note 4 Maximum of 42kA short circuit current available, *and maximum of 0.33 second (20 cycle) fault clearing time.
Note 5 Maximum of 35kA short circuit current available, * < and maximum of 0.5 second (30 cycle) fault clearing time.
Note 6 For < 25kA short circuit current available, the HRC required may be reduced by one category

*Circuits over 40cal/cm² should only be worked de-energized.

Definitions: Y=Yes (Required)

V-Rated gloves: gloves rated and tested for the maximum line-to-line voltage upon which work will be done. Leather protectors must be worn externally if v-rated rubber gloves could be damaged.

V-Rated Tools: tools rated and tested for the maximum line-to-line voltage upon which work will be done, if manufactured and tested in accordance with ASTM F1505. For systems rated less than 1000 volts, the fault currents and upstream protective device clearing times are based on an 18-inch working distance.

For systems rated 1kV and greater, The HazardRisk Categories are based on a 36-inch working distance. For equipment protected by upstream current limiting fuses with arcing fault current in their current limiting range (1/2 cycle fault clearing time or less), The hazardrisk category required may be reduced by one number.

HRC: Hazard Risk Category Y: Yes N: No FR: Flame Resistant

FLASH PROTECTION CLOTHING

Khaki Shirt & Blue Work Pants

	8.8.2 Cal Category 2	5.2 Cal Category 1
Shirt Sizes	Khaki	Chambray
S 36-38	053980	053996
M 40-42	053982	053998
L 44-46	053984	054000
XL 48-50	053986	054002
2XL 52-54	053988	054004
3XL 56-58	053990	054006
4XL 60-62	053992	054008
5XL 64-66	053994	054010

	8.13.8 Cal Category 2	11 Cal Category 2
Pant Sizes	Jeans	Blue Work
XS 28-30	053960	053930
S 32-34	053962	053934
M 36-38	053964	053938
L 40-42	053966	053942
XL 44-46	053968	053946
2XL 48-50	053970	053950
3XL 52-54	053972	053954
4XL 56-58	053974	053958

Also available in cargo style
Pants: Standard inseam = 32"
Longer add 15%
Shorter no additional charge
FR Blue Work Pants = 11 (ATPV)
Made in the U.S.A

Arc Safe NEW ASTM F1506 and
NFPA 70E PPE Chambray Shirts and
jeans made from INDURA Ultra Soft.

Shirts are available in Chambray and
Khaki colors.

Chambray Arc rating 8.2 (ATPV)

Khaki Arc Rating 8.2 (ATPV)

Sizes from S to 5XL

11 Cal/cm²

Long Sleeve Knit Cotton

Cool Tee Shirts

Shirt Sizes	Blue*
S 36-38	054045
M 40-42	054046
L 44-46	054047
XL 48-50	054048
2XL 52-54	054049
3XL 56-58	054050
4XL 60-62	054051
5XL 64-66	054052
6XL 68-70	054053

*other colors available

Western style jeans are available in
denim color.

Arc rating 20.7 (ATPV)

Sizes 28-56 inches (waist)

Standard inseam is 32"



FLASH PROTECTION CLOTHING



*Flame resistant
clothing*

*11 Cal
Level 2*

*Light weight
knits*

*Keeps you cool
when working
in high heat*

*Available
in Coveralls,
Parkas and
T-shirts (shown)*

FLASH PROTECTION CLOTHING

Light Weight Flame Resistant Clothing

Coveralls

021770	11 Cal/cm Squared Kint Flame Resistant Coverall (S)
021771	11 Cal/cm Squared Kint Flame Resistant Coverall (M)
021772	11 Cal/cm Squared Kint Flame Resistant Coverall (L)
021773	11 Cal/cm Squared Kint Flame Resistant Coverall (XL)
021774	11 Cal/cm Squared Kint Flame Resistant Coverall (2XL)
021775	11 Cal/cm Squared Kint Flame Resistant Coverall (3XL)
021776	11 Cal/cm Squared Kint Flame Resistant Coverall (4XL)
021777	11 Cal/cm Squared Kint Flame Resistant Coverall (5XL)
021778	11 Cal/cm Squared Kint Flame Resistant Coverall (6XL)

Parkas

021780	11 Cal/cm Squared Kint Flame Resistant Parka (S)
021781	11 Cal/cm Squared Kint Flame Resistant Parka (M)
021782	11 Cal/cm Squared Kint Flame Resistant Parka (L)
021783	11 Cal/cm Squared Kint Flame Resistant Parka (XL)
021784	11 Cal/cm Squared Kint Flame Resistant Parka (2XL)
021785	11 Cal/cm Squared Kint Flame Resistant Parka (3XL)
021786	11 Cal/cm Squared Kint Flame Resistant Parka (4XL)
021787	11 Cal/cm Squared Kint Flame Resistant Parka (5XL)
021788	11 Cal/cm Squared Kint Flame Resistant Parka (6XL)

Long Sleeve T-Shirts

054045	11 Cal/cm Squared Kint Flame Resistant T-Shirt (S 36-38)
054546	11 Cal/cm Squared Kint Flame Resistant T-Shirt (M 40-42)
054547	11 Cal/cm Squared Kint Flame Resistant T-Shirt (L 44-46)
054548	11 Cal/cm Squared Kint Flame Resistant T-Shirt (XL 48-50)
054549	11 Cal/cm Squared Kint Flame Resistant T-Shirt (2XL 52-54)
054550	11 Cal/cm Squared Kint Flame Resistant T-Shirt (3XL 56-58)
054551	11 Cal/cm Squared Kint Flame Resistant T-Shirt (4XL 60-62)
054552	11 Cal/cm Squared Kint Flame Resistant T-Shirt (5XL 64-66)
055453	11 Cal/cm Squared Kint Flame Resistant T-Shirt (6XL 68-70)

FLASH PROTECTION CLOTHING



EDP# 052510 EDP#052509 EDP#052546 EDP#052547 EDP#052548 EDP#052513

EDP#	Description	Cal/Cm ²
052510	Arc Shield with hard hat	10
052511	Arc Shield ONLY	10
052512	Arc Shield/Helmet/Hood/Storage bag	11
052508	Arc Shield/Hood/Storage bag	10
052500	Arc Shield/Helmet/Hood/Storage bag/Back pack	10
052501	Arc Shield/ Hard Hat/ Tool Back Pack	
052502	Replacement Lenses	10
052503	Hard Hat Adapter	10
052504	Replacement Chin Cup	
052509	Arc Shield/ Hood Storage Bag	
052549	Knit Balaclava Hood	11

EDP#	Description	Cal/Cm ²
052546	Detachable Hood	11
052547	Stocking Hood- worn under hard hat and arc shield. (Highly recommended for use with 052510)	17
052548	Arc Hood	11
050311	Thermographer Gloves	11
050313	Thermographer Gloves	45
050315	Thermographer Gloves	59
052513	Flash Protection Hot Back Pack	
052514	Large Flash Protection Hot Back Pack	
052540	Safety Helmet- Class E	
052542	Safety Glasses	

Flash Protection Clothing (FR)

Ultra soft INDURA® knit fabric weight 6.3 oz., ATPV 11 cal/cm²

NOMEX® fabric weight 6.0oz., ATPV 5.6 cal/cm²

	Navy Blue Parka		Navy Blue Lab Coat		Navy Blue Coveralls		Navy Blue Overalls	
	Indura	NOMEX	Indura	NOMEX	Indura	NOMEX	Indura	NOMEX
Small	021780	052620	021790	052635	021770	052690	052560	052660
Medium	021781	052622	021791	052636	021771	052692	052562	052662
Large	021782	052624	021792	052637	021772	052694	052564	052664
X-Large	021783	052626	021793	052638	021773	052695	052566	052666
XX-Large	021784	052628	021794	052639	021774	052696	052568	052668
XXX-Large	021785	052630	021795	052640	021775	052697	052570	052670
XXXX-Large	021786	052632	021796	052641	021776	052698	052572	052672

Size Charts

Jackets, Coats, Coveralls (Chest Sizes)

Small (36-38)	Medium (40-42)	Large (44-46)	X-Large (48-50)	2XL (52-54)	3XL (56-58)	4XL (60-62)	5XL (64-66)
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Pants (Waist Sizes)

XSmall (28-30)	Small (32-34)	Medium (36-38)	Large (40-42)	X-Large (44-46)	2XL (48-50)	3XL (52-54)	4XL (56-58)
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FLASH PROTECTION CLOTHING



• The Flash Arc Hood incorporates UV and IR-absorbing window providing protection up to 107 cal/cm². Past generations of gold reflective faceshields only provided up to 7.33 cal/cm² of protection, and the typical clear faceshield only 1.2cal/cm².

• The green tint window is coated with a permanent anti-fog inner surface. EDP # 052509 Storage Bag available for hood.

• Arc Hoods are supplied with Hard Hat Adapter and Safety Helmet.

EDP#	Description	cal/cm ²
052515	High Visibility Arc Hood	21
052516	High Visibility Arc Hood W/O Hard Hat	21
052517	Replacement Windows	21
052543	Balaclava Hood	47
052544	Arc Goggle	38
052685	Flash Protection High Visibility Arc Hood-Double Layered	33
052686	Replacement Window	33/45
052850	Flash Protection High Visibility Arc Hood	45
052687	Flash Protection Arc Hood	62
052688	Replacement Window	62
052880	Flash Protection Arc Hood	76
052689	Flash Protection Arc Hood	100
052699	Replacement Window	100



Flash jacket is approximately wasit length and must be worn in combination with flash pants



21 cal/cm²
Single-layer 13oz. Navy Blue
Ultra Soft INDURA

21 cal/cm²
Single-layer 13oz. Navy Blue
Ultra Soft INDURA

51 cal/cm²
Multi-layer 9 oz. INDURA
Ultra Soft

62 cal/cm²
Multi-layer 12 oz. INDURA
Ultra Soft

83 cal/cm²
12 oz. INDURA Ultra Soft

100 cal/cm²
1 ply 10 oz. Twaron microfiber
1 ply Carbon X Felt
1 ply 11 oz. Carbon X Twill

Size	Jacket	Overall	Coat	Coverall	Jacket	Overall	Jacket	Overall	Jacket	Overall	Jacket	Overall
Small	021719	021729	052519	052770	-----	-----	-----	-----	-----	-----	-----	-----
Medium	021720	021730	052520	052771	052851	052858	052690	053690	052881	052888	052749	053749
Large	021721	021731	052521	052772	052852	052859	052691	053691	052882	052889	052750	053750
X-Large	021722	021732	052522	052773	052853	052860	052692	053692	052883	052900	052751	053751
2XL	021723	021733	052523	052774	052854	052861	052693	053693	052884	052901	052752	053752
3XL	021724	021734	052524	052775	052855	052862	052694	053694	052885	052902	052753	053753
4XL	021725	021735	052525	052776	052856	052863	052695	053695	052886	052903	052754	053754
5XL	021726	021736	052526	052777	052857	052864	052696	053696	052887	052904	052755	053755
6XL	021727	021737	052527	052778	-----	-----	-----	-----	-----	-----	-----	-----

FLASH PROTECTION CLOTHING



New 33 cal/cm2
Coveralls



EDP# 052850
New 45 cal/cm2
High Visibility Arc Shield



EDP# 052866
45 cal/cm2
Arc Protection Kit
Hazard Risk Category 4



EDP# 052706
62 cal/cm2
Arc Protection Kit
Hazard Risk Category 4



EDP# 052543
47 cal/cm2 Balaclava Hood
EDP# 052544
38 cal/cm2 Arc Goggles

FLASH PROTECTION CLOTHING



11 Cal/cm2 Arc
Protection Parka



Hooded Sweatshirt
17 cal/cm2
Arc Protection



EDP# 052811
21 cal/cm2
Arc Protection Kit



EDP# 052812
21 cal/cm2 Arc Coveralls
shown without ARC hood



EDP# 052703
33 cal/cm2
Hazard Risk Category 3N

ARC PROTECTION KITS

Anti-Fog Arc Shield	052511 (10 cal/cm²)	052511 (10 cal/cm²)	052511 (10 cal/cm²)	052511 (10 cal/cm²)	052511 (10 cal/cm²)
Safety Glasses	052542	052542	052542	052542	052542
Flame Resistant Parka	11 cal/cm² INDURA	11 cal/cm² INDURA	11 cal/cm² INDURA	5.6 cal/cm² NOMAX	5.6 cal/cm² NOMAX
Insulating Gloves	500V Class 00	1,000V Class 0	20,000V Class 2	1,000V Class 0	20,000V Class 2
Appropriate Glove Protectors	Class 00	Class 0	Class 2	Class 0	Class 2
Glove Bag	022100	022100	022200	022100	022200
Safety Helmet	052540	052540	052540	052540	052540
Flash Apparel Bag	052599	052599	052599	052599	052599
Complete Kit EDP#	052790	052800	052801	052802	052803
Kit Without Gloves EDP#	052804	052804	052804	052805	052805

Anti-Fog Arc Shield	052511 (10 cal/cm²)	052511 (10 cal/cm²)	052511 (10 cal/cm²)	052511 (10 cal/cm²)	052511 (10 cal/cm²)
Safety Glasses	052542	052542	052542	052542	052542
Flame Resistant Lab Coat	11 cal/cm² INDURA	11 cal/cm² INDURA	11 cal/cm² INDURA	5.6 cal/cm² NOMAX	5.6 cal/cm² NOMAX
Insulating Gloves	500V Class 00	1,000V Class 0	20,000V Class 2	1,000V Class 0	20,000V Class 2
Appropriate Glove Protectors	Class 00	Class 0	Class 2	Class 0	Class 2
Glove Bag	022100	022100	022200	022100	022200
Safety Helmet	052540	052540	052540	052540	052540
Flash Apparel Bag	052599	052599	052599	052599	052599
Flame Retardant Hood	052546	052546	052546	052545	052545
Complete Kit EDP#	052791	052806	052807	052820	052822
Kit Without Gloves EDP#	052808	052808	052808	052824	052824

Anti-Fog Arc Shield	052511 (10 cal/cm²)	052511 (10 cal/cm²)	052511 (10 cal/cm²)	052511 (10 cal/cm²)	052511 (10 cal/cm²)
Safety Glasses	052542	052542	052542	052542	052542
Flame Resistant Coverall	11 cal/cm² INDURA	11 cal/cm² INDURA	11 cal/cm² INDURA	5.6 cal/cm² NOMAX	5.6 cal/cm² NOMAX
Insulating Gloves	500V Class 00	1,000V Class 0	20,000V Class 2	1,000V Class 0	20,000V Class 2
Appropriate Glove Protectors	Class 00	Class 0	Class 2	Class 0	Class 2
Glove Bag	022100	022100	022200	022100	022200
Safety Helmet	052540	052540	052540	052540	052540
Flash Apparel Bag	052599	052599	052599	052599	052599
Flame Retardant Hood	052546	052546	052546	052545	052545
Complete Kit EDP#	052792	052830	052832	052836	052836
Kit Without Gloves EDP#	052834	052834	052834	052840	052840

INSULATING GLOVES

Size	Length	Class	Description	Glove	Protector	Glove Bag	Kit
7	11"	00	Low Voltage (500V Max)	051296	051290	022100	052296
8	11"	00	Low Voltage (500V Max)	051298	051291	022100	052298
8-1/2	11"	00	Low Voltage (500V Max)	051299	051291	022100	052299
9	11"	00	Low Voltage (500V Max)	051300	051292	022100	052300
9-1/2	11"	00	Low Voltage (500V Max)	051301	051293	022100	052301
10	11"	00	Low Voltage (500V Max)	051302	051293	022100	052302
10-1/2	11"	00	Low Voltage (500V Max)	051303	051294	022100	052303
11	11"	00	Low Voltage (500V Max)	051304	051294	022100	052304
11-1/2	11"	00	Low Voltage (500V Max)	051305	051295	022100	052305
12	11"	00	Low Voltage (500V Max)	051306	051295	022100	052306



Class 00 High Dexterity Gloves

Size	Length	Class	Description	Glove	Protector	Glove Bag	Kit
7	11"	0	Low Voltage (1000V Max)	051110	050301	022100	051100
8	11"	0	Low Voltage (1000V Max)	051111	050302	022100	051101
8-1/2	11"	0	Low Voltage (1000V Max)	051112	050303	022100	051102
9	11"	0	Low Voltage (1000V Max)	051113	050303	022100	051103
9-1/2	11"	0	Low Voltage (1000V Max)	051114	050305	022100	051104
10	11"	0	Low Voltage (1000V Max)	051115	050305	022100	051105
10-1/2	11"	0	Low Voltage (1000V Max)	051116	050307	022100	051106
11	11"	0	Low Voltage (1000V Max)	051117	050307	022100	051107
11-1/2	11"	0	Low Voltage (1000V Max)	051118	050309	022100	051108
12	11"	0	Low Voltage (1000V Max)	051119	050309	022100	051109

Size	Length	Class	Description	Glove	Protector	Glove Bag	Kit
8	14"	2	High Voltage (17KV Max)	020160	020001	022200	020171
8-1/2	14"	2	High Voltage (17KV Max)	020161	020003	022200	020172
9	14"	2	High Voltage (17KV Max)	020163	020003	022200	020173
9-1/2	14"	2	High Voltage (17KV Max)	020164	020005	022200	020174
10	14"	2	High Voltage (17KV Max)	020165	020005	022200	020175
10-1/2	14"	2	High Voltage (17KV Max)	020166	020007	022200	020176
11	14"	2	High Voltage (17KV Max)	020167	020007	022200	020177
11-1/2	14"	2	High Voltage (17KV Max)	020168	020009	022200	020178
12	14"	2	High Voltage (17KV Max)	020169	020009	022200	020179

Size	Length	Class	Description	Glove	Protector	Glove Bag	Kit
7	14"	00	Low Voltage (500V Max)	051307	051318	022200	051325
8	14"	00	Low Voltage (500V Max)	051308	051319	022200	051326
8-1/2	14"	00	Low Voltage (500V Max)	051309	051320	022200	051327
9	14"	00	Low Voltage (500V Max)	051310	051320	022200	051328
9-1/2	14"	00	Low Voltage (500V Max)	051311	051321	022200	051329
10	14"	00	Low Voltage (500V Max)	051312	051321	022200	051330
10-1/2	14"	00	Low Voltage (500V Max)	051313	051322	022200	051331
11	14"	00	Low Voltage (500V Max)	051314	051322	022200	051332
11-1/2	14"	00	Low Voltage (500V Max)	051315	051323	022200	051333
12	14"	00	Low Voltage (500V Max)	051316	051323	022200	051334



Class 0 and Class 00 Glove Kit

INSULATING GLOVES

Size	Length	Class	Description	Glove	Protector	Glove Bag	Kit
7	14"	0	Low Voltage (1000V Max)	051120	051130	022200	051137
8	14"	0	Low Voltage (1000V Max)	051121	051131	022200	051138
8-1/2	14"	0	Low Voltage (1000V Max)	051122	051132	022200	051139
9	14"	0	Low Voltage (1000V Max)	051123	051132	022200	051140
9-1/2	14"	0	Low Voltage (1000V Max)	051124	051133	022200	051141
10	14"	0	Low Voltage (1000V Max)	051125	051133	022200	051142
10-1/2	14"	0	Low Voltage (1000V Max)	051126	051334	022200	051143
11	14"	0	Low Voltage (1000V Max)	051127	051334	022200	051144
11-1/2	14"	0	Low Voltage (1000V Max)	051128	051135	022200	051145
12	14"	0	Low Voltage (1000V Max)	051129	051135	022200	051146



Class 2 Glove Kit

Size	Length	Class	Description	Glove	Protector	Glove Bag	Kit
8	14"	1	High Voltage (7.5 KV Max)	020140	020001	022200	020150
8-1/2	14"	1	High Voltage (7.5 KV Max)	020141	020001	022200	020151
9	14"	1	High Voltage (7.5 KV Max)	020142	020003	022200	020152
9-1/2	14"	1	High Voltage (7.5 KV Max)	020143	020003	022200	020153
10	14"	1	High Voltage (7.5 KV Max)	020144	020005	022200	020154
10-1/2	14"	1	High Voltage (7.5 KV Max)	020145	020005	022200	020155
11	14"	1	High Voltage (7.5 KV Max)	020146	020007	022200	020156
11-1/2	14"	1	High Voltage (7.5 KV Max)	020147	020007	022200	020157
12	14"	1	High Voltage (7.5 KV Max)	020148	020009	022200	020158



In order to determine the proper size for Class 0 and 00 insulating gloves, use a tape measure to find the circumference of your hand around the palm.

For example, 8" means your a Class 0 and 00 gloves size is 8. For Class 2 gloves add 1/2 size to allow for dexterity. For example, 8" means your Class 2 glove size is 8 1/2.

International IEC60903 Standard High Dexterity Gloves

Size	Length	Class	Description	Glove	Protector	Glove Bag	Kit
8/81/2	11"	00	Low Voltage (500 V Max)	051340	051291	022100	051350
9/91/2	11"	00	Low Voltage (500 V Max)	051342	051292	022100	051352
10/101/2	11"	00	Low Voltage (500 V Max)	051344	051293	022100	051354
11/111/2	11"	00	Low Voltage (500 V Max)	051346	051294	022100	051356

INSULATED ACCESSORIES

7.5 KV PVC Insulating Roll



EDP#	Description	Size
020307	7.5 KV Insulating Roll	4' x 50"
020309	7.5 KV Insulating Roll	4' x 25"
020312	Wood Container for Roll	
020302	4' x 50' Kit (Roll and Container)	
020317	4' x 25' Kit (Roll and Container)	

- Meets ASTM F1742-03 standard
- Transparent, tested at 10 KV
- Cut amount needed, discard when finished.

Electric Insulating Protective Shielding



EDP#	Size	Max Use Voltage
020332	36" x 25'	1,000
020333	36" x 25'	7,500

- Type 2 Insulating- Flame, Oil, and Ozone Resistant
- ASTM Standard F2320-03

Electrical insulating rubber shielding is engineered to protect personnel, equipment, and work areas from electrical hazards up to 7,500 volts. The shielding is flame, oil, ozone, and puncture resistant, remains flexible to -60° F, and will not melt. Tri-Chem's insulating shielding is available in convenient "safety yellow" rolls and is 100% tested to meet ASTM standards.

Type 1 Insulating Blankets & Accessories



EDP#	Description
020304	36" x 36" Class "0" Type 1 (1,000V Max) Blanket
020305	36" x 36" Class "2" Type 1 (20,000V Max) Blanket
020310	Blanket Canister
020300	36" x 36" Class "2" Blanket Kit (Blanket, Clamps & Canister)
020301	36" x 36" Class "0" Blanket Kit (Blanket, Clamps & Canister)
020320	Blanket Clamps (set of 2)

- Meets ASTM D1048-05 Standard

Glove Inflator

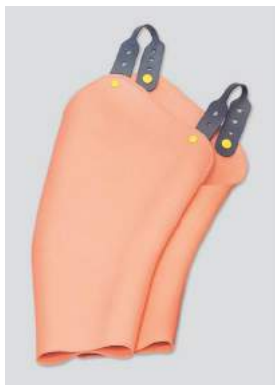


EDP#
051200

Proper safety calls for frequent on-the job inspection of equipment for mechanical damage. Inflators offer a quick, easy way to do a complete and thorough visual inspection of rubber gloves.

INSULATED ACCESSORIES

Sleeves



EDP#	Class	Max Volts	Size
021080	0	1,000	Regular
021082	0	1,000	Large
021084	0	1,000	X-Large
021090	2	20,000	Regular
021092	2	20,000	Large
021094	2	20,000	X-Large

EDP#	Description
021096	Sleeve Fasteners, 6/bag
021097	Sleeve Straps Regular, 2/buttons
021098	Sleeve Straps Extra Large 2/buttons
022300	Replacement Sleeve Bag

• ASTM Standard D1051-02

Rubber Goods Cleaner



EDP#	Description
020334	72-ct saturated wipe dispenser (6/cs)
020335	1-quart bottle with sprayer (12/cs)
02336	1-gallon bottle (4/cs)
020337	5-gallon pail (1 ea)

Rubber Property-Effect of Liquids (ASTM D471)	Passes all tests
Specification for In-service Care of insulated gloves and sleeves (ASTM F496)	Passes all tests
Flashpoint (ASTM D93)	No Flash via TCC
Initial Boiling Point	~212°F/100°C
pH	Neutral
Cleaning Strength	Excellent

- No mixing required
- Excellent cleaning power
- Harmless to elastomers (rubber)
- Multiple package options
- Environmentally friendly
- Non-toxic and non-corrosive
- Not an RCRA-regulated hazardous waste
- Not listed as a toxic chemical by SARA 313

Glove Liners, Pair

Knit Cotton



EDP#	Size
051210	10"
051212	14"

INSULATED ACCESSORIES

Hot Sticks



EDP#	Description	Length
040090	External Rod Clampstick	6'-8"
042150	Universal Switching Stick	1 1/4" x 8'
049935	Fiberglass Hot Switch Stick	1 1/4" x 8"

EDP#	Description	Size
040091	Telescopic	8'
040092	Telescopic	12'
040093	Telescopic	16'
040094	Telescopic	20'
040095	Telescopic	25'
040096	Telescopic	30'
040097	Telescopic	35'
040098	Telescopic	40'

Dielectric Boots



Size	Deep Heel Overshoe	17" Full Cut Overshoe
5	021580	
6	021582	
7	021584	021407
8	021586	021408
9	021588	021409
10	021590	021410
11	021592	021411
12	021594	021412
13	021595	021413
14	021596	021414
15	021597	021415
16	021598	021416
17	021599	021417

Dielectric Deep Heel Overshoes provide extra safety when climbing ladders and poles where the heep heel cavity can lock onto the rungs. These boots and overshoes are made from an ozone resistant yellow rubber that is 100% waterproof. The construction is hand-layered in full cut patterns to fit over work boots. The fabric lining makes them easy to get on and off. The sole is an anti-skid bar tread. All of these overshoes meet ANSI requirements and have been tested to 20,000 volts.

The 17" Super Dielectric boot offers a high level of protection from electrical shock to utility workers, electric contractors, and others working dangerously close to electrical hazards. These boots meet ASTM F 1117 requirements, and have been tested to 15,000 volts AC and 45,000 volts DC. These boots are completely waterproof and resistant to ozone. The tough fabric lining makes the fit comfortable and easy to take on and off.

INSULATED ACCESSORIES

Switchboard Corrugated Matting

ASTM D178-01 Type I Insulating- Non-oil resistant Switchboard matting is rubber matting designed for electrical insulation, as a floor covering to prevent shock around high voltage electrical apparatus, fuse boxes, switchgear, control panels, and heavy machinery. It meets and exceeds current ASTM, ANSI (plus IEC Division of ANSI, Tech. Committee-78) specifications for this material. In addition, OSHA requirements intent to eliminate the electrical hazards of high voltage shock in the workplace is abundantly clear. Tri-Chem switchboard matting is designed specifically for this purpose. IT IS NOT DESIGNED TO BE USED AS A "HOT" RAIL BLANKET. ALSO, MATTING WITH PUNCTURES OR CRACKS SHOULD NOT BE PLACED IN SERVICE.

EDP#	Dielectric Test Voltage	Thickness	Size	Class	Max Use Voltage
020531	20,000	3/16"	36" x 12"	1	7,500
020532	20,000	3/16"	36" x 24"	1	7,500
020533	20,000	3/16"	36" x 36"	1	7,500
020534	20,000	3/16"	36" x 48"	1	7,500
020561	20,000	1/4"	36" x 12"	2	17,000
020562	20,000	1/4"	36" x 24"	2	17,000
020563	20,000	1/4"	36" x 36"	2	17,000
020564	20,000	1/4"	36" x 48"	2	17,000
020541	30,000	1/4"	36" x 12"	2	17,000
020542	30,000	1/4"	36" x 24"	2	17,000
020543	30,000	1/4"	36" x 36"	2	17,000
020544	30,000	1/4"	36" x 48"	2	17,000
020551	40,000	3/8"	36" x 12"	3	26,500
020552	40,000	3/8"	36" x 24"	3	26,500
020553	40,000	3/8"	36" x 36"	3	26,500
020554	40,000	3/8"	36" x 48"	3	26,500

Arc Rated Harness

EDP#	Description
068300	Medium Arc Rated Harness
068302	Large Arc Rated Harness
068304	X-Large Arc Rated Harness



Back View



Front View

INSULATED ACCESSORIES

Safety Rescue Hook



EDP#	Width	Length
032514	12"	9'

Ground Sets



- 21kA 15 Cycles
- ASTM Grade 5
- Set Includes:
 - four-way connector with sleeves
 - four 1 1/2" smooth jaw clamps with sleeves
 - double hangar stud
 - contact stud
 - 34' 1/0 Cu cable
 - four pair ferrules

EDP#
026800

Voltage Detector Kits



- Non-contact, wide range of detection, 80 V to 275 kV, audible and visual indication
- 275 kV automatic self-test beep every two seconds

EDP#	Description
043556	Non-Contact Selective Voltage Detector
043558	Non-Contact Automatic Voltage Detector
043560	Non-Contact Selective Voltage Detector Kit
043562	Non-Contact Automatic Voltage Detector Kit
043570	Non-Contact Voltage Detector-sound annunciator, detects 44 KV from up to 30 ft. away

HISTORY- COMPOSITE TOOLS

One of the most interesting developments to evolve as a result of the new OSHA regulations on 1000 volt rated hand tools has been the introduction of composite tools.

Until recently, the way tool manufactures complied with these regulations was to take steel shafted tools and coat or dip them with either a single or double layer of soft protective insulating material. This served the purpose of meeting the initial certifications of the necessary 10,000 volt test.

Unfortunately this method enlarges the shafts to a point that they will not fit into restrictive areas. The other major problem is if the tool is used to pry, the soft insulating material can easily be harmed (cut) in such a way that a dangerous phase over could occur. Another major drawback of this type of manufacturing is the safety issue of maintaining or inspecting the integrity of the insulation.

Over the past few years composite tools have entered the market as an alternative to the dipped tools. A spin-off from the Department of Defense and Aerospace technologies, the composite concept was to take advantage of the inherent non-conductive, high strength, and light weight properties of composite materials to transmit torque and leverage to the working end of the tool. This technology allowed for the total elimination of insulating coatings that become nicked, cut or torn due to normal use. Built much like a Hot Stick if kept clean and dry, there is no conductive path back to the user's use. Consequently, the danger of flash over or a potential electrocution is significantly reduced.

In examining a cross section of a composite screwdriver, it is suprising to note that the metal tip only extends 5/8 of an inch into the composite shaft. As for the strength of the composite, it is not a concern. A strong person can torque 6 foot pounds, metal yields at 10 foot pounds, and the composite fails at 20 foot pounds. The concept is analogous to aircraft propellers that use a metal hub connection and a high strength composite blade, a construction commonly found on many commercial and militart aircraft.

The nut drivers offer a similar self-insulating composite shaft with the working end fully shrouded in a protective fiberglass insulation that will allow access into extremely tight areas where double insulated tools will not fit. These tools are very durable and lightweight, exceeding torque values in excess of 34 foot pounds.

One last advantage is that all composite tools carry a warranty that includes the integrity of the insulation. No other american manufacturer will do this.

Composite tools are slimmer, safer, more durable, and lighter in weight, and the only american made screwdrivers and nut drivers that pass the ASTM extreme cold weather tests.



STRIPPERS, CRIMPERS, WRENCHES

Stripper & Crimping Pliers



EDP#	Capacity	Length
010080	#10-22 AWG	8 1/4"
010081	#8-30 AWG	7"
010082	#10-28 AWG	6 1/2" V-notch
010084	#10-18 AWG Solid	6 1/2"
010085	#10-22 AWG	6 1/2" In-line
010087	#10-18 AWG	STRANDED



"T" Handle Hexagon Socket Wrench

EDP#	Size
010150	3/8"
010152	7/16"
010154	1/2"
010156	9/16"
010158	5/8"
010160	11/16"
010162	3/4"
010164	13/16"
010165	7/8"
010166	15/16"
010167	1"



- Overall length 10"
- Handle length 8"

Offset Screwdriver

Slotted

EDP#	Size
000564	2-4 x 3"
000566	4-6 x 3"
000568	6/8 x 4 1/4"
000570	8/10 x 4 1/4"
000572	10-12 x 5"
000574	12-14 x 6"
000576	14-16 x 6"

Phillips

EDP#	Size
000578	#1 x 4 3/4"
000580	#2 x 5 1/2"
000582	#3 x 6"



Pipe Wrench

EDP#	Size	EDP#	Size	EDP#	Size
001002	5/16"	000970	5 mm	000991	26 mm
001003	11/32"	000971	6 mm	000992	27 mm
001004	3/8"	000972	7 mm	000993	28 mm
001005	13/32"	000973	8 mm	000994	29 mm
001006	7/16"	000974	9 mm	000995	30 mm
001007	15/32"	000975	10 mm	000996	31 mm
001008	1/2"	000976	11 mm	000997	32 mm
001009	17/32"	000977	12 mm	000998	33 mm
001010	9/16"	000978	13 mm	000999	34 mm
001011	19/32"	000979	14 mm	001000	35 mm
001012	5/8"	000980	15 mm	001001	36 mm
001014	11/16"	000981	16 mm		
001016	3/4"	000982	17 mm		
001018	13/16"	000983	18 mm		
001020	7/8"	000984	19 mm		
001022	15/16"	000985	20 mm		
001024	1"	000986	21 mm		
001026	1 1/16"	000987	22 mm		
001028	1 1/8"	000988	23 mm		
001030	1 1/4"	000989	24 mm		
001032	1 1/2"	000990	25 mm		



Fuse Puller



EDP#
010440

Insulated Knife and Sheath



EDP#
010440

T Handle Wrench



EDP#	Drive
010172	3/8"
010172	1/2"

STRIPPERS, CRIMPERS, WRENCHES

Hexagon Wrench



Sets

EDP#	Pieces	Sizes
010141	7	5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4"
010142	10	1/8" thru 3/8" w/o 7/64" and 9/64"
010144	14	1/16" thru 1/2"

Metric Sets

EDP#	Pieces	Sizes
001042	9	1.5 mm thru 10 mm w/o 7 and 9 mm
001044	10	1.5 mm thru 10 mm w/o 9 mm
001064	10	1.5 mm thru 10 mm w/o 7 mm
001065	11	1.5 mm thru 10 mm
001046	12	1.5 mm thru 12 mm
001048	17	1.5 mm thru 24 mm

EDP#	Size
010123	1/16"
010124	5/64"
010125	3/32"
010126	7/64"
010127	1/8"
010128	9/64"
010129	5/32"
010130	3/16"
010131	7/32"
010132	1/4"
010134	5/16"
010136	3/8"
010138	7/16"
010140	1/2"
010145	9/16"
010146	5/8"
010147	3/4"
010148	7/8"
010149	1"

EDP#	Size
001050	1.5 mm
001051	2 mm
001052	2.5 mm
001053	3 mm
001054	4 mm
001055	5 mm
001056	6 mm
001057	7 mm
001058	8 mm
001059	9 mm
001060	10 mm
001061	12 mm
001063	14 mm
001066	17 mm
001067	19 mm
001068	22 mm
001069	24 mm

"T" Handle Hexagon Wrench



EDP#	Pieces	Sizes
001090	8	2 mm thru 10 mm w/o 7 and 9 mm
001092	10	2 mm thru 10 mm
010120	8	1/8" thru 3/8"
010122	10	3/32" thru 3/8"
010101	10	1/8" thru 1/2"
010102	11	1/8" thru 9/16"
010103	12	3/32" thru 1/2"
010104	13	3/32" thru 9/16"

EDP#	Size
010100	5/64"
010105	3/32"
010106	7/64"
010107	1/8"
010108	9/64"
010109	5/32"
010110	3/16"
010111	7/32"
010112	1/4"
010114	5/16"
010116	3/8"
010117	7/16"
010118	1/2"
010119	9/16"

EDP#	Size
001070	2 mm
001071	2.5 mm
001072	3 mm
001073	4 mm
001074	5 mm
001075	6 mm
001076	7 mm
001077	8 mm
001078	9 mm
001079	10 mm

PLIERS, CUTTERS, JOINT TOOLS, & ADJUSTABLE WRENCH

Linesman Pliers



- New England style, high leverage

EDP#	Length
010000	7 5/16" Standard
010003	8 1/2" Standard
010005	9 1/4" Premium
010006	9 1/4" Standard
010007	8 3/4" Standard w/ Crimper

Water Pump Pliers



- Positive locking design

EDP#	Length	Capacity
010066	4"	1/2"
010068	6"	1/2"
010070	10"	1 1/2"
010071	10"	1 1/2" Box Joint
010073	12"	2"
010075	12"	2" Box Joint

Needlenose Pliers



- Side Cutting Feature

EDP#	Length
010008	4"
010010	6"
010013	7 1/2"
010014	7" Bent Nose
010016	8"

Slip Joint Pliers



- Milled teeth and jaws

EDP#	Length
010050	8"
010052	10"

Flat Nose Pliers



- Duck Bill

EDP#	Length
010020	6"

Crimping Pliers



- Wire cutter built into base
- For insulated and non-insulated terminals

EDP#	Length	Capacity
010060	10"	# 10-22 AWC

Insulated Inspection Mirror



EDP#	Length
014301	14" long w/ 2 1/4" adj. mirror
014303	15" long w/ 3 1/4" adj. mirror

Cable Cutters



EDP#	Length	Capacity
010040	9 1/2"	4/0 Alum, 2/0 Copper
010041	10"	4/0 Alum, 2/0 Copper
010042	8"	2/0 Alum, 0/0 Copper

• High leverage

*Easily slices up to 100-pair telephone cable

Ratcheting Cable Cutter



EDP#
010048

Note: This tool should never be used to cut steel or steel reinforced cable

- Cuts copper communications cable up to 3" (76 mm) in diameter
- Compact, lightweight, weighs only 3 lbs. (1.13 kg)
- Easy to use, one-handed operation
- Release lever disengages ratchet, allowing blades to open even in mid-cut
- Safety latch locks blades in closed position for storage
- Features a rubber boot to lodge stationary handle against work surface to multiply manual effort

Insulated Adjustable Magnetic Retrieving Tool



EDP#
014302

- 18" handle

Diagonal Cutting Pliers



EDP#	Length
010028	4"
010030	6"
010033	7"
010034	8"

- Standard bevel cutting knives

Plastic Pliers



EDP#	Length
010039	7"

- Fiberglass

Adjustable Wrenches



EDP#	Length	Jaw Opening
010090	6"	3/4"
010092	8"	15/16"
010094	10"	1 1/8"
010096	12"	1 5/16"
010098	15"	1 11/16"

• WARNING: Not 1000 V rated. Does not meet ASTM standards for insulated tools

SCREWDRIVERS- NUT DRIVERS

Composite Tools

Leading Edge Technology



Manufactured from braided, military grade fiberglass composite over a tough polymer core, Composite Tools combine the latest in space age materials technology with traditional heat treated steel tips in a unique family of products ideal for the safety-minded professional tool user.

- Inherent safety- the insulating properties are built into the tool, not coated onto it
- Lightweight
- Better balanced
- Exceeds the strength of the proper fastener
- One year warranty

Composite Screwdrivers



- Cushion grip
- Slotted electrician's tip
- Phillips tip
- Robertson tip
- Cabinet tip

Phillips Tip

EDP#	Size
000581	#0 x 3"
000852	#1 x 5"
000853	#0 x 6"
000856	#2 x 4 1/2"
000857	#2 x 6"
000858	#2 x 7"
000859	#3 x 6"
000952	#1 x 3"

Slotted Tip

EDP#	Size
000813	1/8" x 3"
000814	1/8" x 6"
000820	1/4" x 7"
000822	5/16" x 4 1/2"
000823	5/16" x 7"
000843	3/16" x 7"
000844	3/16" x 5"
000846	3/16" x 6"
000847	1/4" x 4 1/2"
000848	1/4" x 6"
000849	5/16" x 6"
000850	3/8" x 7"
000932	7/32" x 3 1/2"

Robertson Tip

EDP#	Size
000860	#0 x 3"
000861	#0 x 6"
000862	#1 x 5"
000864	#2 x 4 1/2"
000866	#2 x 6"
000868	#3 x 7"

Screwdriver Sets

EDP#	Pieces	Size
000871	6	#1, #2, 1/8" x 3", 3/16" x 6", 1/4" x 6", 5/16" x 6"
000869	8	#1, #2, 1/8" x 3", 1/8" x 6", 3/16" x 6", 1/4" x 6", 5/16" x 6", 3/8" x 7"
000870	11	#1, #2, #3, 1/8" x 3", 1/8" x 6", 3/16" x 5", 3/16" x 6", 1/4" x 4 1/2", 1/4" x 6", 5/16" x 6", 3/8" x 7"
000872	5	#2, #3, 3/16" x 6", 1/4" x 6", 3/8" x 7"

Composite Nutdrivers



- Cushion grip
- Hollow hexagon shaft
- 3" and 6" shaft lengths

3" Length

EDP#	Size
000880	3/16"
000881	7/32"
000882	1/4"
000883	9/32"
000884	5/16"
000885	11/32"
000886	3/8"
000887	7/16"
000888	1/2"
000889	9/16"
000890	5/8"

6" Length

EDP#	Size
000891	3/16"
000892	7/32"
000893	1/4"
000894	9/32"
000895	5/16"
000896	11/32"
000897	3/8"
000898	7/16"
000899	1/2"
000900	9/16"
000901	5/8"

Specialty Nut Drivers

States Terminal Block

3" Length

EDP#	Size
000903	5/16"

6" Length

EDP#	Size
000904	5/16"

Sets

3" EDP#	6" EDP#	Pieces	Size
000920	000925	7	3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2"
000921	000926	8	3/16", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"
000922	000927	9	3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"
000923	000928	10	3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16"

SCREWDRIVERS- NUT DRIVERS

Composite Holding Screwdrivers and Nut starters



- Convenient twist tip design for one-hand use
- Fiberglass composite (non-conductive) shaft
- Magnetic on opposite end to help retrieve fasteners

Holding SD

EDP#	Size	Length	Type
000560	3/16"	6"	Slotted
000562	#2	6"	Phillips

Nut Starter

EDP#	Capacity
000563	4-40 (2.5)mm to 5/16" (8mm)

Bit Holder Extension Bar for Cordless Drill



- 5" Length
- Accommodates most standard 1/4" hex bits

EDP#
000812

Composite Hand Driver



- Accommodates 1/4" Sq. Dr. Sockets

EDP#	Drive	Length
000810	1/4"	3"
000811	1/4"	6"

Composite Male Hexagon Drivers



3" Length

EDP#	Size
000620	5/32"
000621	3/16"
000622	7/32"
000623	1/4"
000625	5/16"
000627	3/8"

6" Length

EDP#	Size
000640	5/32"
000641	3/16"
000642	7/32"
000643	1/4"
000645	5/16"
000647	3/8"

Sets

3" EDP#	6" EDP#	Pcs.	Sizes
000633	000653	4	3/16", 1/4", 5/16", 3/8"
000634	000654	6	5/32", 3/16", 7/32", 1/4", 5/16", 3/8"

Composite Magnetic Bit Tip System



- Accommodates 1/4" Sq. Dr. Sockets
- Powerful magnet (800 grams) securely holds bits in place
- Can also be used as a 1/4" nut driver
- Convenient see-through handle stores eight standard bits

EDP#	Capacity
010460	3/16" and 1/4" Flat #1 and #2 Phillips
010461	3/16" and 1/4" Flat #1 and #2 Robertson

Geared Style Box Wrenches



EDP#	Size	EDP#	Size
010442	5/16"	010478	8mm
010443	3/8"	010479	9mm
010444	7/16"	010480	10mm
010445	1/2"	010481	11mm
010446	9/16"	010482	12mm
010447	5/8"	010483	13mm
010448	11/16"	010484	14mm
010449	3/4"	010485	15mm
010450	13/16"	010486	16mm
010451	7/8"	010487	17mm
010452	15/16"	010488	18mm
010453	1"	010489	19mm
		010491	21mm
		010492	22mm
		010494	24mm

Sets

EDP#	Pieces	Size
010454	9	5/16" thru 13/16"
010455	10	5/16" thru 7/8"
010456	12	5/8" thru 1"
010498	11	8mm thru 24mm

Connector Wrenches



- Ratcheting
- Provides separation between the ratchet ends to eliminate accidental contacts on low voltage installations.

EDP#	Length	Size
010410	7"	3/8" x 7/16"
010411	8 3/8"	9/16" x 3/4"
010412	9 1/2"	3/4" x 7/8"

Aussie Linesman Pliers



- High leverage, scissor shearing action, crimper included

EDP#	Length
010007	8 3/4" Standard w/ crimper

European Style Drivers



Slotted SD

EDP#	Size
013070	3/32" x 3"
013072	5/32" x 4"
013074	3/16" x 5"
013076	1/4" x 6"
013077	5/16" x 7"

Phillips SD

EDP#	Size
013080	#0 x 2 1/8"
013082	#1 x 3"
013084	#2 x 4"
013086	#3 x 6"

Screwdriver Set

EDP#	Size
013090	3/32" x 3", 5/32" x 4", 3/16" x 5", 1/4" x 6", #0 x 2 1/2", #1 x 3", #2 x 4"

Metric Nut Drivers

EDP#	Description	Size	Length
005300	Metric Nut Driver	5.5 mm	125mm
005305	Metric Nut Driver	6mm	125mm
005310	Metric Nut Driver	7mm	125mm
005315	Metric Nut Driver	8mm	125mm
005320	Metric Nut Driver	9mm	125mm
005325	Metric Nut Driver	10mm	125mm
005330	Metric Nut Driver	11mm	125mm
005335	Metric Nut Driver	12mm	125mm
005340	Metric Nut Driver	13mm	125mm

Screwdriver Set

EDP#	Pcs.	Sizes
005370	9	5.5mm thru 13mm

Ratcheting Wrenches

- Metric and larger sizes available upon request



EDP#	Pcs.	Sizes
010431	9	1/4" thru 3/4"
010433	10	1/4" thru 7/8"

EDP#	Size
010421	1/4"
010422	5/16"
010423	3/8"
010424	7/16"
010425	1/2"
010426	9/16"
010427	5/8"
010428	11/16"
010429	3/4"
010432	7/8"

Box End Wrenches



Standard

EDP#	Size
010340	1/4"
010342	5/16"
010344	3/8"
010346	7/16"
010348	1/2"
010350	9/16"
010352	5/8"
010354	11/16"
010356	3/4"
010358	13/16"
010360	7/8"
010362	15/16"
010364	1"
010366	1 1/16"
010368	1 1/8"
010370	1 1/4"
010373	1 3/8"
010374	1 1/2"
010376	1 5/8"

Metric

EDP#	Size
001402	6mm
001404	7mm
001406	8mm
001408	9mm
001410	10mm
001412	11mm
001414	12mm
001416	13mm
001418	14mm
001420	15mm
001421	16mm
001422	17mm
001423	18mm
001424	19mm
001425	20mm
001426	21mm
001427	22mm
001428	23mm
001429	24mm
001430	25mm
001431	26mm
001432	27mm
001433	28mm
001434	29mm
001435	30mm
001436	32mm

Sets

EDP#	Pieces	Size
010372	11	1/4" thru 7/8"
001438	11	10mm thru 27mm
010371	8	3/8" thru 13/16"
010375	10	1/4" thru 13/16"
010377	13	1/4" thru 1"
010378	11	3/8" thru 1"

Open End Wrenches



Standard

EDP#	Size
010300	1/4"
010302	5/16"
010304	3/8"
010306	7/16"
010308	1/2"
010310	9/16"
010312	5/8"
010314	11/16"
010316	3/4"
010318	13/16"
010320	7/8"
010322	15/16"
010324	1"
010326	1 1/16"
010328	1 1/8"
010330	1 1/4"
010337	1 3/8"
010338	1 1/2"
010339	1 5/8"

Metric

EDP#	Size
001302	6mm
001304	7mm
001306	8mm
001308	9mm
001310	10mm
001312	11mm
001314	12mm
001316	13mm
001318	14mm
001320	15mm
001321	16mm
001322	17mm
001323	18mm
001324	19mm
001325	20mm
001326	21mm
001327	22mm
001328	23mm
001329	24mm
001330	25mm
001331	26mm
001332	27mm
001333	28mm
001334	29mm
001335	30mm
001336	32mm

Sets

EDP#	Pieces	Size
010332	11	1/4" thru 7/8"
001338	11	10mm thru 27mm
010329	11	3/8" thru 1"
010331	8	3/8" thru 13/16"
010335	13	1/4" thru 1"
010336	10	1/4" thru 13/16"

TORQUE WRENCH, SOCKETS, RATCHETS

Torque Wrenches/ Screwdrivers



Screwdrivers

EDP#	Range	Length
010174	6-30" #	6 3/8"
010175	2-36" #	6 3/8"
010176	2-100" OZ	6 3/8"

EDP#	Description
010177	1/4" Hex to 1/4" Sq. Dr. Adapter
016084	5/16" F to 3/8" M Drive Adapter
016086	5/16" F to 1/2" M Drive Adapter

Wrenches

EDP#	Size	Length	Drive
010173	30-150" #	10"	1/4"
010184	30-150" #	10"	3/8"
010185	150-750" #	15"	3/8"
011185	15' #-75' #	15"	3/8"
011184	50-250" #	13"	3/8"
011186	50-250' #	22"	1/2"
010186	150-750" #	15"	1/2"
010187	30' #- 150' #	19"	1/2"
016080	0-80' #	13"	5/16"

Reversible Ratchet



EDP#	Drive	Length
010178	1/4"	6"
010180	3/8"	7"
010182	1/2"	10"
010470	3/4"	24"

- Raised Lever allows reversing while wearing gloves
- Extension bars are required

Hexagon Sockets

EDP#	Drive	Range	Depth
001100-001126	1/4"	5/32"-9/16"	STD
001140-001157	1/4"	4mm-13mm	STD
001166-001182	3/8"	6mm-22mm	STD
001266-001282	3/8"	6mm-22mm	DEEP
001192-001214	1/2"	10mm-32mm	STD
001479-001496	1/2"	9mm-26mm	DEEP

3/8" Drive			
Standard Depth		Deep Depth	
EDP#	Size	EDP#	Size
010200	5/16"	010220	3/8"
010201	1/4"	010222	7/16"
010202	3/8"	010223	5/16"
010204	7/16"	010224	1/2"
010206	1/2"	010226	9/16"
010208	9/16"	010228	5/8"
010210	5/8"	010230	11/16"
010212	11/16"	010232	3/4"
010214	3/4"	010233	13/16"
010216	13/16"	010234	7/8"
010217	15/16"	010235	15/16"
010218	7/8"	010236	1"
010221	1"		

1/2" Drive			
Standard Depth		Deep Depth	
EDP#	Size	EDP#	Size
010240	3/8"	010270	3/8"
010242	7/16"	010272	7/16"
010244	1/2"	010274	1/2"
010246	9/16"	010276	9/16"
010248	5/8"	010278	5/8"
010250	11/16"	010280	11/16"
010252	3/4"	010282	3/4"
010254	13/16"	010284	13/16"
010256	7/8"	010286	7/8"
010258	15/16"	010288	15/16"
010260	1"	010290	1"
010262	1 1/16"	010292	1 1/16"
010266	1 1/4"	010294	1 1/8"
010268	1 3/8"	010295	1 1/4"
010267	1 1/2"		
010269	1 5/8"		

TORQUE WRENCH, SOCKETS, RATCHETS

Male Hexagon Adaptor



1/2" Drive- 2" Lgth.

EDP#	Size
001390	6mm
001391	8mm
001392	10mm
001393	12mm
001394	13mm
001395	14mm
001396	15mm
001397	17mm
001398	18mm
001399	19mm

1/4" Drive- 2" Lgth

EDP#	Size
001231	1/8"
001232	5/32"
001234	3/16"
001236	7/32"
001238	1/4"
001240	5/16"

3/8" Drive- 2 1/4" Lgth.

EDP#	Size
001244	1/8"
001246	5/32"
001248	3/16"
001250	7/32"
001252	1/4"
001254	5/16"
001256	3/8"
001258	7/16"
001260	1/2"

4" Lgth

EDP#
001370
001372
001374
001376
001378
001380
001382
001384
001386

3/8" Drive- 2 1/4" Lgth.

EDP#	Size
001294	4mm
001295	5mm
001296	6mm
001297	7mm
001298	8mm
001299	9mm
001300	10mm

5" Lgth.

EDP#
001340
001341
001342
001343
001344
001345
001346

Sets

EDP#	Pcs.	Drive	Size
001241	6	1/4"	1/8" - 5/16"
001261	8	3/8"	1/4", 5/16", 3/8", 7/16"
001262	7	3/8"	1/8" - 1/2", w/o 5/32" & 7/32"
001263	9	1/4"	1/8" - 1/2"
001230	8	1/4"	1/4" - 3/4"
001348	7	3/8"	4mm-10mm 5"
001368	8	1/2"	1/4" - 3/4" 4"
001388	9	3/8"	1/8" - 1/2" 4"
001400	10	1/2"	6mm-19mm

1/2" Drive- 2 3/4" Lgth.

EDP#	Size
001218	1/4"
001219	5/16"
001220	3/8"
001222	7/16"
001224	1/2"
001226	9/16"
001228	5/8"
001229	3/4"

4" Lgth.

EDP#	Size
001350	1/4"
001352	5/16"
001354	3/8"
001356	7/16"
001358	1/2"
001360	9/16"
001362	5/8"
001362	3/4"

Breaker Bar



EDP#	Drive	Length
010197	3/8"	9"
010198	1/2"	12"

Extension Bars



EDP#	Drive	Length
010168	1/2"	20"
010189	1/4"	2"
010191	1/4"	6"
010188	3/8"	3"
010190	3/8"	6"
010192	3/8"	12"
010193	1/2"	2 1/2"
010194	1/2"	5"
010196	1/2"	10"

SOCKET & RATCHET SETS

Socket & Ratchet Sets



EDP#	Pcs.	Description
001130	11	1/4" Dr. 6 Pt. Socket Set, 5/32" thru 9/16"
001131	11	1/4" Dr. Ratchet, 2" Ext., Sockets 7/32" thru 9/16"
001132	12	1/4" Dr. Ratchet, 2" Ext., Sockets 3/16" thru 9/16"
001138	18	1/4" Dr. Ratchet, 2" Ext., Sockets 3/16" thru 9/16", Male Hex Bits 1/8" thru 5/16"
001160	14	1/4" Dr. Ratchet, 2" Ext., Sockets 4mm thru 12mm
001188	15	3/8" Dr. Ratchet, 3" Ext., Sockets 10mm thru 22mm
001190	13	3/8" Dr. Deep Metric Socket Set 10mm thru 22mm
001215	17	1/2" Dr. Ratchet, 5" Ext., Sockets 10mm thru 22mm
001216	15	1/2" Dr. Socket Set 10mm thru 32mm
001283	13	3/8" Dr. Ratchet, 3" Ext., Sockets 10mm thru 19mm & 22mm DEEP
001384	19	3/8" Dr. Ratchet, 3" Ext., Sockets 6mm thru 22mm DEEP
010179	12	1/4" Dr. Ratchet, 2" Ext., Sockets 3/16" thru 1/2"
010181	9	3/8" Dr. Ratchet, 3" Ext., Sockets 3/8" thru 3/4"
010183	14	1/2" Dr. Ratchet, 5" Ext., Sockets 3/8" thru 1" Breaker Bar
010199	12	3/8" Dr. Ratchet, 3" Ext., Sockets 5/16" thru 7/8"
010219	10	3/8" Dr. Sockets, 5/16" thru 7/8"
010238	9	3/8" Dr. Ratchet, 3" Ext., Deep Sockets 3/8" thru 3/4"
010239	12	3/8" Dr. Ratchet, 3" and 6" Ext., Sockets 3/8" thru 7/8"
011198	25	1/2" Dr. Ratchet, 5" Ext., 8" T-Handle, Sockets 3/8" thru 1 1/4", Male Hex Bits 1/4" thru 3/4"
011199	11	3/8" Dr. Ratchet, 3" and 6" Ext., Sockets 3/8" thru 13/16"
011200	11	3/8" Dr. Ratchet, 3" and 6" Ext., DEEP Sockets 3/8" thru 13/16"
011215	10	3/8" Dr. Metric Socket Set 10mm thru 19mm
011210	17	1/2" Dr. Ratchet, 5" and 10" Ext., DEEP Sockets 3/8" thru 1" Breaker Bar

TOOL ROLLS

Basic Electrician's Roll (9 pieces)

EDP#
013302



9" Linesman pliers
7 1/2" Diagonal Cutting Pliers
7" Needle Nose Pliers
Combination Stripper & Crimper
#2 x 6" Square (Robertson) Screwdriver
3/16" x 6" Slotted Screwdriver
1/4" x 6" Slotted Screwdriver
#1 x 5" Phillips Screwdriver
#2 x 4 1/2 Phillips Screwdriver

Tool Roll (7 pcs.)

EDP#
013360



9" Linesman pliers
7 1/2" Diagonal Cutting Pliers
6" Needle Nose Pliers
Combination Stripper & Crimper
Fuse Puller
Crimper
Plastic Pliers

Meter Service Roll (12 pieces)



9" Linesman pliers
7 1/2" Diagonal Cutting Pliers
8" Needle Nose Pliers
1/8" x 3" Slotted Screwdriver
#2 x 6" Square (Robertson) Screwdriver
3/16" x 6" Slotted Screwdriver
1/4" x 6" Slotted Screwdriver
Fuse Puller
Plastic Pliers
5/16" Nut Driver
3/8" Nut Driver
1/2" Nut Driver

EDP#	Description
013383	w/ Composite Tools 3" Nut Drivers
013384	w/ Composite Tools 6" Nut Drivers

Substation Roll



EDP#	Description
013432	Consists of EDP#'s 013352 & 013360
013433	Consists of EDP#'s 013353 & 013360

Nut Screwdriver Roll (11 pieces)



1/8" x 3" Slotted Screwdriver
#2 x 6" Square (Robertson) Screwdriver
3/16" x 6" Slotted Screwdriver
1/4" x 6" Slotted Screwdriver
3/16" Nut Driver
7/32" Nut Driver
1/4" Nut Driver
9/32" Nut Driver
5/16" Nut Driver
11/32" Nut Driver
3/8" Nut Driver

EDP#	Description
013352	3" Nut Drivers
013353	6" Nut Drivers

Telecommunications Tool Roll (16 pieces)



EDP#
013442

9" Linesman Pliers
6" Needle Nose Pliers
8" Slip Joint Pliers
3/16" x 5" Elect. Slotted Screwdriver w/ Cushion Grip
1/4" x 4 1/2" Slotted Screwdriver w/ Cushion Grip
5/16" x 6" Slotted Screwdriver w/ Cushion Grip
3/8" x 7" Slotted Screwdriver w/ Cushion Grip
#2 x 4 1/2" Phillips Screwdriver w/ Cushion Grip
3/8" Reversible Ratchet
3/8" Reversible Torque Wrench 30-150" #
3/8" Drive 3" Extension
3/8", 7/16", 1/2", 9/16" Hex Sockets 3/8" Drive, STD Depth
5/8" Hex Socket 3/8" Drive DEEP Depth

Automotive Large Tool Kit



EDP#
000015

EDP#	Description
000846	3/16" x 6" Slotted Screwdriver
000848	1/4" x 6" Slotted Screwdriver
000849	5/16" x 6" Slotted Screwdriver
000852	#1 x 5" Phillips Screwdriver
000858	#2 x 7" Phillips Screwdriver
000859	#3 x 6" Phillips Screwdriver
010013	7" Needle Nose Pliers
010034	8" Diagonal Pliers
010060	Crimper
010073	12" Water Pump Pliers
010080	Wire Strippers
010440	Fuse Puller

Belt Pouches

Meter Service Pouch



EDP#
013202

Composite Knife
1/8" x 3" Slotted Composite Screwdriver
1/4" x 6" Slotted Composite Screwdriver
5/16" x 6" Slotted Composite Screwdriver
#2 x 4 1/2" Phillips Composite Screwdriver
Wire Strippers
7 1/2" Diagonal Cutter
10" Water Pump Pliers
8" Adjustable Wrench*
9" Linesman Pliers
6" Needle Nose Pliers
Slotted Composite Holding Screwdriver
3/8" x 3" Composite Hex Nut Driver
1/2" x 3" Composite Hex Nut Driver

*Flashlight and tape not included

* 8" Adj. wrench not insulated per ASTM F1505

Standard- insulated against grounding only

Electrician's Service Pouch



EDP#
013204

Composite Knife
1/8" x 3" Slotted Composite Screwdriver
3/16" x 5" Slotted Composite Screwdriver
1/4" x 6" Slotted Composite Screwdriver
#2 x 4 1/2" Phillips Composite Screwdriver
Wire Strippers
7 1/2" Diagonal Cutter
10" Water Pump Pliers
Fuse Puller
9" Linesman Pliers
6" Needle Nose Pliers
3/16" x 3" Composite Hex Nut Driver
1/4" x 3" Composite Hex Nut Driver
5/16" x 3" Composite Hex Nut Driver

TOOL BOXES-SETS

Utility Tool Kit



EDP#
013402

EDP#	Description
000562	#2 x 6" Phillips Holding Screwdriver
000558	8-10 x 2 1/2" Offset Screwdriver
000559	8-10 x 5 3/8" Offset Screwdriver
000570	8-10 x 4 1/4" Slotted Offset Screwdriver
000813	1/8" x 3" Electrician's Slot Composite Screwdriver
000844	3/16" x 5" Electrician's Slot Composite Screwdriver
000843	3/16" x 7" Electrician's Slot Composite Screwdriver
000848	1/4" x 6" Electrician's Slot Composite CG Screwdriver
000852	#1 x 5" Phillips Composite CG Screwdriver
000856	#2 x 4 1/2 Phillips Composite CG Screwdriver
000880	3/16" x 3" Hollow Hex Shank Composite Nut Driver
000885	11/32" x 3" Hollow Hex Shank Composite Nut Driver
000886	3/8" x 3" Hollow Hex Shank Composite Nut Driver
001003	11/32" x 4" Pipe Wrench (Single End)
010010	6" Needle Nose Pliers
010030	6" Diagonal Cutting Pliers
010060	10" Crimping Pliers
010084	Wire Stripper Solid

Utility Field Kit (30 pcs.) 1/2" Drive



EDP#
016034

EDP#	Description
000813	1/8" x 3" Electrician's Slot Composite Screwdriver
000847	1/4" x 4 1/2" Electrician's Slot Composite CG Screwdriver
000852	#1 x 5" Phillips Composite CG Screwdriver
000848	1/4" x 6" Electrician's Slot Composite CG Screwdriver
000895	5/16" x 6" Hollow Hex Shank Composite Nut Driver
000897	3/8" x 6" Hollow Hex Shank Composite Nut Driver
000898	7/16" x 6" Hollow Hex Shank Composite Nut Driver
000899	1/2" x 6" Hollow Hex Shank Composite Nut Driver
000900	9/16" x 6" Hollow Hex Shank Composite Nut Driver
000901	5/8" x 6" Hollow Hex Shank Composite Nut Driver
010005	9 1/2" Premium Linesman Pliers with Crimper
010016	8" Needle Nose Pliers
010033	7 1/2" Diagonal Cutting Pliers
010039	7" Plastic (Holding) Pliers
010060	10" Crimping Pliers
010110	3/16" x 6" T-handle Hex Wrench
010172	1/2" Dr. T-handle Hex Wrench
010182	10" 1/2" Dr. Reversible Ratchet
010196	10" 1/2" Drive Extension Bar
010194	5" 1/2" Drive Extension Bar
010272	7/16" 1/2" Dr. Hex Socket 12 pt. Deep
010274	1/2" 1/2" Dr. Hex Socket 12 pt. Deep
010276	9/16" 1/2" Dr. Hex Socket 12 pt. Deep
010278	5/8" 1/2" Dr. Hex Socket 12 pt. Deep
010280	1/2" 1/2" Dr. Hex Socket 12 pt. Deep
010282	3/4" 1/2" Dr. Hex Socket 12 pt. Deep
010284	13/16" 1/2" Dr. Hex Socket 12 pt. Deep
010286	7/8" 1/2" Dr. Hex Socket 12 pt. Deep
010288	15/16" 1/2" Dr. Hex Socket 12 pt. Deep
010412	3/4" X 7/8" Bug Wrench

21 Pc. Insulated Tools Set



EDP#	Description
013409	6" Nut Drives

Description
9" Linesman Pliers
6" Diagonal Cutting Pliers
6" Needle Nose Pliers
Crimper
8" Slip Joint
10" Water Pump Pliers
3/16" x 5" Cushion Grip Elect. Slotted Screwdriver
1/4" x 6" Cushion Grip Slotted Screwdriver
1/4" x 4 1/2" Cushion Grip Slotted Screwdriver
5/16" x 5" Cushion Grip Slotted Screwdriver
#1 x 5" Cushion Grip Phillips Screwdriver
#2 x 4 1/2" Cushion Grip Phillips Screwdriver
3/16", 1/4", 5/16", 3/8" Hex Wrench
1/4", 5/16", 3/8", 7/16", 1/2" Cushion Grip Hex Nut Drivers (3" Shaft)

1/2" Drive Electrician's Hot Box



EDP#
016053

EDP#	Description
000880	3/16" x 3" Hollow Hex Shank Composite Nut Driver
000885	11/32" x 3" Hollow Hex Shank Composite Nut Driver
000850	3/8" x 7" Electrician's Slot Composite CG Screwdriver
001325	5/16" x 4" Long Male Hex Bit 1/2" Drive
001354	3/8" x 4" Long Male Hex Bit 1/2" Drive
001356	7/16" x 4" Long Male Hex Bit 1/2" Drive
001358	1/2" x 4" Long Male Hex Bit 1/2" Drive
001360	9/16" x 4" Long Male Hex Bit 1/2" Drive
001362	5/8" x 4" Long Male Hex Bit 1/2" Drive
010040	9 1/2" Cable Cutter
010073	12" Water Pump Pliers
010110	3/16" x 6" T-handle Hex Wrench
010112	1/2" x 6" T-handle Hex Wrench
010114	5/16" x 6" T-handle Hex Wrench
010116	3/8" x 6" T-handle Hex Wrench
010117	7/16" x 6" T-handle Hex Wrench
010118	1/2" x 6" T-handle Hex Wrench
010182	10" 1/2" Dr. Reversible Ratchet
010194	5" 1/2" Dr. Extension Bar
010196	10" 1/2" Drive Extension Bar
010187	19" 1/2" Dr. Torque Wrench 30-150 ft. #
010240	3/8" 1/2" Dr. Hex Socket 12 pt STD.
010242	7/16" 1/2" Dr. Hex Socket 12 pt STD.
010244	1/2" 1/2" Dr. Hex Socket 12 pt STD.
010246	9/16" 1/2" Dr. Hex Socket 12 pt STD.
010248	5/8" 1/2" Dr. Hex Socket 12 pt STD.
010250	11/16" 1/2" Dr. Hex Socket 12 pt STD.
010252	3/4" 1/2" Dr. Hex Socket 12 pt STD.
010272	7/16" 1/2" Dr. Hex Socket 12 pt. Deep
010274	1/2" 1/2" Dr. Hex Socket 12 pt. Deep
010276	9/16" 1/2" Dr. Hex Socket 12 pt. Deep
010278	5/8" 1/2" Dr. Hex Socket 12 pt. Deep
010280	1/2" 1/2" Dr. Hex Socket 12 pt. Deep
010282	3/4" 1/2" Dr. Hex Socket 12 pt. Deep
010284	13/16" 1/2" Dr. Hex Socket 12 pt. Deep
010286	7/8" 1/2" Dr. Hex Socket 12 pt. Deep
010288	15/16" 1/2" Dr. Hex Socket 12 pt. Deep
010290	1" 1/2" Dr. Hex Socket 12 pt. Deep

TOOL BOXES-SETS

Telecommunications Hot Box



EDP#
016072

EDP#	Description
000897	3/8" x 6" Hollow Hex Shank Composite Nut Driver
000898	7/16" x 6" Hollow Hex Shank Composite Nut Driver
000899	1/2" x 6" Hollow Hex Shank Composite Nut Driver
000900	9/16" x 6" Hollow Hex Shank Composite Nut Driver
010180	7" 3/8" Dr. Reversible Ratchet
010188	3" 3/8" Dr. Extension Bar
010190	6" 3/8" Dr. Extension Bar
010202	3/8" 3/8" Dr. Hex Socket 12 pt. STD
010204	7/16" 3/8" Dr. Hex Socket 12 pt. STD
010206	1/2" 3/8" Dr. Hex Socket 12 pt. STD
010208	9/16" 3/8" Dr. Hex Socket 12 pt. STD
010210	5/8" 3/8" Dr. Hex Socket 12 pt. STD
010212	11/16" 3/8" Dr. Hex Socket 12 pt. STD
010214	3/4" 3/8" Dr. Hex Socket 12 pt. STD
010216	13/16" 3/8" Dr. Hex Socket 12 pt. STD
010312	5/8" Long Style Open End Wrench
010310	9/16" Long Style Open End Wrench
010308	1/2" Long Style Open End Wrench
010306	7/16" Long Style Open End Wrench
010304	3/8" Long Style Open End Wrench
010302	5/16" Long Style Open End Wrench

Tool Boxes



All Sets Contain
9" Linesman Pliers
7 1/2" Diagonal Cutting Pliers
7" Needle Nose Pliers
Flash Light
1/8" x 3" Slotted Screwdriver
3/16" x 5" Slotted Screwdriver
1/4" x 6" Slotted Screwdriver
#1 x 5" Phillips Screwdriver
#1 x 4 1/2" Phillips Screwdriver

Deluxe Electrician's Tool Box
1/2" Reversible Ratchet
5" Extension 1/2" Drive
10" Extension 1/2" Drive
3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4" Hex Sockets

Deluxe Maintenance Tool Box
1/2" Reversible Ratchet
5" Extension 1/2" Drive
Hex Sockets : 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"
Open End Wrench : 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

Case	EDP#
Foam Insert Case	013411
Tool Box Style	013413

EDP#
013421
013423

Deluxe Telecommunications Toolbox



EDP#	Case Style
013449	"Briefcase"
013447	Toolbox

1/8" x 3" Slotted Screwdriver
3/16" x 5" Slotted Screwdriver
1/4" x 6" Slotted Screwdriver
#1 x 5" Phillips Screwdriver
#2 x 4 1/2" Phillips Screwdriver
9" Linesman Pliers
8" Needle Nose Pliers
7 1/2" Diagonal Cutting Pliers
3/8" Drive Reversible Ratchet
3/8" Drive 3" Extension
3/8" Drive 6" Extension
30" 150" # Torque Wrench
3/8" Drive Deep Sockets 3/8" thru 3/16"
Box Wrenches 3/8" thru 13/16"
Mini Flashlight

Telecommunications Hot Box (24 pcs.)



EDP#
016073

EDP#	Description
000846	3/16" x 6" Electrician's Slot Composite CG Screwdriver
000849	5/16" x 6" Electrician's Slot Composite CG Screwdriver
000856	#2 x 4 1/2" Phillips Composite CG Screwdriver
010006	9 1/2" Linesman Pliers
010016	8" Needle Nose Pliers
010033	7 1/2" Diagonal Cutting Pliers
010070	10" Water Pump Pliers
010180	7" 3/8" Dr. Reversible Ratchet
010184	10" 3/8" Dr. Torque Wrench 30-150" #
010188	3" 3/8" Dr. Extension Bar
010190	6" 3/8" Dr. Extension Bar
010204	7/16" 3/8" Dr. Hex Socket 12 pt. STD
010206	1/2" 3/8" Dr. Hex Socket 12 pt. STD
010208	9/16" 3/8" Dr. Hex Socket 12 pt. STD
010214	3/4" 3/8" Dr. Hex Socket 12 pt. STD
010306	7/16" Long Style Open End Wrench
010308	1/2" Long Style Open End Wrench
010310	9/16" Long Style Open End Wrench
010316	3/4" Long Style Open End Wrench
010344	3/8" Long Style Box End Wrench
010346	7/16" Long Style Box End Wrench
010348	1/2" Long Style Box End Wrench
010350	9/16" Long Style Box End Wrench
010356	3/4" Long Style Box End Wrench

TOOL BOXES-SETS

The Hox Box



EDP#	Description
000813	1/8" x 3" Slotted Screwdriver
000866	#2 x 6" Square (Robertson) Screwdriver
000846	3/16" x 6" Slotted Screwdriver Cushion Grip
000848	1/4" x 6" Slotted Screwdriver Cushion Grip
000849	5/16" x 6" Slotted Screwdriver Cushion Grip
000856	#2 x 4 1/2" Phillips Screwdriver Cushion Grip
000858	#2 x 7" Phillips Screwdriver Cushion Grip
010006	9 1/2" Linesman Pliers
010016	8" Needle Nose Pliers
010033	7 1/2" Diagonal Cutting Pliers
010040	9 1/2" Cable Cutters
010070	10" Water Pump Pliers
010080	Combination Stripper Crimpers
010144	14 pcs 1/16"- 1/2" Allen Hex Wrench Set
010180	3/8" Dr. Reversible Ratchet
010188	3" 3/8" Dr. Extension Bar
010190	6" 3/8" Dr. Extension Bar
010219	10 pcs. 5/16"-7/8", 3/8" Dr. Hex Socket Set
010372	11 pcs. 1/4"-7/8" Box End Wrench Set
000891	3/16" x 6" Nut Driver Cushion Grip
000893	1/4" x 6" Nut Driver Cushion Grip
000895	5/16" x 6" Nut Driver Cushion Grip
000896	11/32" x 6" Nut Driver Cushion Grip
000897	3/8" x 6" Nut Driver Cushion Grip
000898	7/16" x 6" Nut Driver Cushion Grip
000899	1/2" x 6" Nut Driver Cushion Grip
010184	30"-150" # Torque Wrench

EDP#	Description
016027	3/8" Drive Hot Box/ without Torque Wrench
016029	3/8" Drive Hot Box w/ Torque Wrench 010184
016032	3/8" Drive Hot Box w/ Torque Wrench 010185
016024	w/ Metric Sockets, Nut Drivers and Box Wrenches
016028	w/ Torque Wrench, Metric Sockets, Nut Drivers, and Box Wrenches
016051	w/ 1/2" Drive Ratchet, Sockets, and Extensions
016052	w 1/2" Drive Torque Wrench, 1/2" Drive Ratchet, Sockets and Extensions
016054	w/ 1/2" Drive Metric Sockets, Nut Drivers, and Extensions
016055	w 1/2" Drive Torque Wrench, Metric Sockets, Nut Drivers and Box Wrenches

Telecommunications Hot Box (68 pcs)



EDP#
016030

EDP#	Description
000560	3/16" x 6" Slotted Holding Screwdriver
000562	#2 x 6" Phillips Holding Screwdriver
000843	3/16" x 7" Electrician's Slot Composite CG Screwdriver
000844	3/16" x 5" Electrician's Slot Composite CG Screwdriver
000848	1/4" x 6" Electrician's Slot Composite CG Screwdriver
000849	5/16" x 6" Electrician's Slot Composite CG Screwdriver
000850	3/8" x 7" Electrician's Slot Composite CG Screwdriver
000852	#1 x 5" Phillips Composite CG Screwdriver
000856	#2 x 4 1/2" Phillips Composite CG Screwdriver
000858	#2 x 7" Phillips Composite CG Screwdriver
000859	#3 x 6" Phillips Composite CG Screwdriver
000880	3/16" x 3" Hollow Hex Shank Composite Nut Driver
000882	1/4" x 3" Hollow Hex Shank Composite Nut Driver
000884	5/16" x 3" Hollow Hex Shank Composite Nut Driver
000885	11/32" x 3" Hollow Hex Shank Composite Nut Driver
000886	3/8" x 3" Hollow Hex Shank Composite Nut Driver
000887	7/16" x 3" Hollow Hex Shank Composite Nut Driver
000888	1/2" x 3" Hollow Hex Shank Composite Nut Driver
010006	9 1/2" Linesman Pliers
010010	6" Needle Nose Pliers
010030	6" Diagonal Cutting Pliers
010040	9 1/2" Cable Cutters
010070	10" Water Pump Pliers
010080	Combination Stripper Crimpers
010094	10" Adjustable Wrench
010123	1/16" Long Arm Hex Key
010124	5/64" Long Arm Hex Key
010125	3/32" Long Arm Hex Key
010126	7/64" Long Arm Hex Key
010127	1/8" Long Arm Hex Key
010128	9/64" Long Arm Hex Key
010129	5/32" Long Arm Hex Key
010130	3/16" Long Arm Hex Key
010131	7/32" Long Arm Hex Key
010132	1/4" Long Arm Hex Key

EDP#	Description
010134	5/16" Long Arm Hex Key
010136	3/8" Long Arm Hex Key
010138	7/16" Long Arm Hex Key
010140	1/2" Long Arm Hex Key
010180	7" 3/8" Dr. Reversible Ratchet
010184	10" 3/8" Torque Wrench 30"-150" #
010188	3" 3/8" Dr. Extension Bar
010190	6" 3/8" Dr. Extension Bar
010192	12" 3/8" Dr. Extension Bar
010200	5/16" 3/8" Dr. Hex Socket 12 pt. STD
010202	3/8" 3/8" Dr. Hex Socket 12 pt. STD
010204	7/16" 3/8" Dr. Hex Socket 12 pt. STD
010206	1/2" 3/8" Dr. Hex Socket 12 pt. STD
010208	9/16" 3/8" Dr. Hex Socket 12 pt. STD
010210	5/8" 3/8" Dr. Hex Socket 12 pt. STD
010212	11/16" 3/8" Dr. Hex Socket 12 pt. STD
010214	3/4" 3/8" Dr. Hex Socket 12 pt. STD
010216	13/16" 3/8" Dr. Hex Socket 12 pt. STD
010218	7/8" 3/8" Dr. Hex Socket 12 pt. STD
010340	1/4" Long Style Box End Wrench
010342	5/16" Long Style Box End Wrench
010344	3/8" Long Style Box End Wrench
010346	7/16" Long Style Box End Wrench
010348	1/2" Long Style Box End Wrench
010350	9/16" Long Style Box End Wrench
010352	5/8" Long Style Box End Wrench
010354	11/16" Long Style Box End Wrench
010356	3/4" Long Style Box End Wrench
010358	13/16" Long Style Box End Wrench
010360	7/8" Long Style Box End Wrench
014301	14" Long 2 1/4" Mirror
014302	18" Long Magnetic Retrieving Tool
014300	Straight Blade Insulated Knife

TOOL BOXES-SETS

General Industrial Maint. Hot Box



EDP#

000036

EDP#	Description
000560	3/16" x 6" Slotted Holding Screwdriver
000562	#2 x 6" Phillips Holding Screwdriver
000843	3/16" x 7" Electrician's Slot Composite CG Screwdriver
000844	3/16" x 5" Electrician's Slot Composite CG Screwdriver
000848	1/4" x 6" Electrician's Slot Composite CG Screwdriver
000852	#1 x 5" Phillips Composite CG Screwdriver
000858	#2 x 7" Phillips Composite CG Screwdriver
000859	#3 x 6" Phillips Composite CG Screwdriver
000891	3/16" x 6" Nut Driver
000892	7/32" x 6" Nut Driver
000893	1/4" x 6" Nut Driver
000895	5/16" x 6" Nut Driver
000897	3/8" x 6" Nut Driver
000898	7/16" x 6" Nut Driver
010006	9 1/2" Linesman Pliers
010016	8" Needle Nose Pliers
010033	7" Diagonal Cutting Pliers
010040	9 1/2" Cable Cutters
010060	Crimper
010070	10" Water Pump Pliers
010084	Wire Stripper
014300	Straight Blade Insulated Knife

Industrial Maintenance Hot Box



EDP#	Description
000820	1/4" x 7" Slotted Screwdriver
000844	3/16" x 5" Electrician's Slot Composite CG Screwdriver
000847	1/4" x 4 1/2" Slotted Screwdriver
000849	5/16" x 6" Electrician's Slot Composite CG Screwdriver
000852	#1 x 5" Phillips Composite CG Screwdriver
000856	#2 x 4 1/2" Phillips Composite CG Screwdriver
000882	1/4" x 3" Hollow Hex Shank Composite Nut Driver
000884	5/16" x 3" Hollow Hex Shank Composite Nut Driver
000886	3/8" x 3" Hollow Hex Shank Composite Nut Driver
000887	7/16" x 3" Hollow Hex Shank Composite Nut Driver
000888	1/2" x 3" Hollow Hex Shank Composite Nut Driver
010006	9 1/2" Linesman Pliers
010010	6" Needle Nose Pliers
010030	6" Diagonal Cutting Pliers
010060	Crimper
010080	Combination Stripper Crimpers
010070	10" Water Pump Pliers
010130	3/16" Long Arm Hex Key
010132	1/4" Long Arm Hex Key
010134	5/16" Long Arm Hex Key
010136	3/8" Long Arm Hex Key

Electrician's Lockout/Tagout Kit



Electrician's Lockout/Tagout Kit Lockout Electrical Sources Fast!

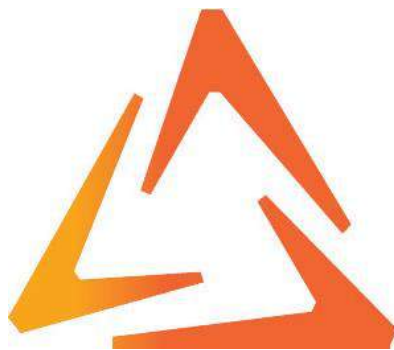
This convenient, east-to-carry kit is packed full of lockout devices for your most common electrical sources.

Specifications:

Transportable kit includes a rugged gray carrying case that holds three (3) 1.5" 12-gauge zinc-coated steel multiple lockout hasps, three (3) #3 Master padlocks, 14 padlock identification stickers, ten (10) lockout safety tages (made of rigid vinyl) and nylon cable ties, three (3) single-pole circuit breaker lockouts, two (2) multi-pole circuit breaker lockouts, one (1) electrical plug lockout and one (1) lockout safety training book.

English EDP#: 712974

Spanish EDP#: 712975



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