



## ELECTRICAL TOOLS

Proto<sup>®</sup> tools have always had a wide following among industrial electricians. That's no surprise given the breadth of our line: the more than 300 individual items in our electrical lineup include everything needed to cut, crimp, bend, move, or secure wire and cable – and do it easier, faster, and safer than ever.

Of course electricians face a challenge that other trades don't – the need to sometimes work on live circuits. Operations performed under voltage are becoming more common in industrial settings, while on-the-job safety is a growing concern for workers and employers alike. That's why the centerpiece of our electrical tool lineup is an extensive line of 1000-Volt Insulated Tools. These include a variety of screwdrivers, pliers, cutting tools, wrenches, drive tools, and keys. The handles on these tools are wrapped with a thick layer of plastic insulation that protects the user against shock when working on live circuits of up to 1000 V AC and 1500 V DC. All of these tools are individually tested and checked.

Our 1000V tools come in two classes. VE Series tools are designed for craftsmen who install and maintain electrical equipment in buildings, and combine the safety requirements needed for working on or near live components with ergonomics and practicality. VSE Series tools are aimed at users who work around higher live voltages, as is the case in electrical power plants. As an added safety feature we have fitted our VSE tools with two layers of insulation: an orange top layer and an underlying yellow layer. When the top layer becomes worn or damaged it exposes the underlying yellow layer, which tells the user that it's time to replace the tool. These tools also have larger guards to help keep hands clear of the non-insulated parts of the tool.

We design all of our electrical tools according to strict ergonomic standards with handles that encourage a secure grip while reducing hand fatigue. Cutting tools are made from chrome alloy steel, and have double heat treated edges for extra hardness.

Electrical tools can be purchased individually or in sets. Proto<sup>®</sup> also offers a master set that has been assembled with the basic tools needed by the electrical trades.

### SAFETY TIPS

- To work under current, you must be trained and certified from an official organization.
- Use insulated electrician's gloves, mats, and eye protection.
- Check that the insulation is sound before using the tool.
- Never use a tool with cracked, cut or damaged insulation.
- Discard tools with damaged or worn insulation.
- Never attempt to modify the tool's insulation.
- Do not let others use your insulated tools.
- Always use the correct tool for the job.
- Check standards and approval markings.
- Read safety recommendations and keep the instructions.



# Electrical Tools

## SET NO. FC-2187C.VSE - FACOM® 41 PC. 1000V SE

- Supplied in leather case.
- Weight: 19.65 lbs.



Contents	Description
FT-BV.7A	Briefcase Tool 2187CVSE
FW-AY.3.5X100V	Screwdriver, 1000V 3.5 mm Slot 7-7/8"
FW-AY.4X100VE	Screwdriver, 1000V 4 mm Slot 7-7/8"
FW-AY.5.5X150V	Screwdriver, 1000V 5.5 mm Slot 10-1/8"
FW-AY.6.5X150V	Screwdriver, 1000V 6.5 mm Slot 10-1/2"
FW-AY.8X150VE	Screwdriver, 1000V 8 mm Slot 10-1/2"
FW-APY.0X75VE	Screwdriver, 1000V PH0
FW-APY.1X100VE	Screwdriver, 100V PH1
FW-APY.2X125VE	Screwdriver, 1000V PH2
FA-187.18AVSE	Plier Combination, 1000V SE 7.25"
FA-189.17AVSE	Plier Roundnose, 1000V SE 6.5"
FA-194.17AVSE	Wire Stripper, 1000V SE 6.5"
FA-391.16AVSE	Plier Diagonal Cutter, 1000V SE 6.5"
FA-188.16AVSE	Plier Flatnose, 1000V SE 6.5"
FA-412.14AVSE	Cable Cutter, 1000V SE 9"
FA-113.10TAVSE	Set 1000V SE 41 PC.

Contents	Description
FM-46.8AVSE	Wrench Combination, 1000V SE 8 mm
FM-46.10AVSE	Wrench Combination, 1000V SE 10 mm
FM-46.11AVSE	Wrench Combination, 1000V SE 11 mm
FM-46.12AVSE	Wrench Combination, 1000V SE 12 mm
FM-46.13AVSE	Wrench Combination, 1000V SE 13 mm
FM-46.14AVSE	Wrench Combination, 1000V SE 14 mm
FM-46.17AVSE	Wrench Combination, 1000V SE 17 mm
FM-46.19AVSE	Wrench Combination, 1000V SE 19 mm
FM-83.3AVSE	Hex Key, 1000V SE 3 mm
FM-83.4AVSE	Hex Key, 1000V SE 4 mm
FM-83.6AVSE	Hex Key, 1000V SE 6 mm
FT-AV.HT1B	Volt Test Screwdriver, 90-480V
FT-BC.31VSE	Glasses Safety Type 31
FT-BC.109VSE	Gloves Leather Size 9
FT-701A	Multifunction Tester
FC-R.400AVSE	1/4" Drive 10 PC. Socket Set



# Electrical Tools



## SET NO. FC-2184C.VSE - FACOM® 39 PC. 1000V SE

- For workshop or on-site electrical work.
- Supplied in case.
- Weight: 32.25 lbs.



Contents	Description
FA-180.VSE	Plier Multigrip, 1000V SE 7-7/8"
FT-1820.AVSE	Plier Halfround, 1000V SE 7-7/8"
FA-188.16AVSE	Plier Flatnose, 1000V SE 6.5"
FA-189.17AVSE	Plier Roundnose, 1000V SE 6.5"
FA-194.17AVSE	Wire Stripper, 1000V SE 6.5"
FA-195.20AVSE	Plier Bentnose, 1000V SE 7-7/8"
FA-391.16AVSE	Plier Diagonal Cutter, 1000V SE 6.5"
FA-414.36AVSE	Cable cutter, 1000V SE 1-3/8" Diagonal
FM-46.8AVSE	Wrench Combination, 1000V SE 8 mm
FM-46.10AVSE	Wrench Combination, 1000V SE 10 mm
FM-46.12AVSE	Wrench Combination, 1000V SE 12 mm
FM-46.13AVSE	Wrench Combination, 1000V SE 13 mm
FM-46.14AVSE	Wrench Combination, 1000V SE 14 mm
FM-46.17AVSE	Wrench Combination, 1000V SE 17 mm
FM-46.19AVSE	Wrench Combination, 1000V SE 19 mm
FM-46.21AVSE	Wrench Combination, 1000V SE 21 mm
FM-83.3AVSE	Hex Key, 1000V SE 3 mm
FM-83.4AVSE	Hex Key, 1000V SE 4 mm
FM-83.6AVSE	Hex Key, 1000V SE 6 mm
FM-94T.8AVSE	Wrench T-Handle, 1000V SE 8 mm

Contents	Description
FM-94T.10AVSE	Wrench T-Handle, 1000V SE 10 mm
FM-94T.13AVSE	Wrench T-Handle, 1000V SE 13 mm
FW-ADY.1X100VE	Screwdriver, 1000V PZ1
FW-ADY.2X125VE	Screwdriver, 1000V PZ2
FW-APY.1X100VE	Screwdriver, 100V PH1
FW-APY.2X125VE	Screwdriver, 1000V PH2
FW-AY.3.5X100V	Screwdriver, 1000V 3.5 mm Slot 7-7/8"
FW-AY.4X100VE	Screwdriver, 1000V 4 mm Slot 7-7/8"
FW-AY.5.5X150V	Screwdriver, 1000V 5.5 mm Slot 10-1/8"
FW-AY.6.5X150V	Screwdriver, 1000V 6.5 mm Slot 10-1/2"
FW-AY.10X150VE	Screwdriver, 1000V 10 mm Slot 10-1/2"
FW-AY.8X150VE	Screwdriver, 1000V 8 mm Slot 10-1/2"
FA-412.14AVSE	Cable Cutter, 1000V SE 9"
FA-187.18AVSE	Plier Combination, 1000V SE 7.25"
FA-192.16AVSE	Plier Diagonal, 1000V SE 6.5"
FA-190.16AVSE	Plier End Cutter, 1000V SE 6-1/2"
FM-DELA.401.00	Ruler, Folding 2m
FT-701A	Multifunction Tester
FT-BV.5A	Briefcase Tool, 2184CVSE



# Electrical Tools

## SET NO. FC-2185C.VSE - FACOM® 28 PC. 1000V SE

- Supplied in a case with modular storage.
- Basic general purpose tools supplied in a plastic box.
- Spare capacity for additional tools.
- Weight: 16.51 lbs.



Contents	Description
FW-AY.4X100VE	Screwdriver, 1000V 4 mm Slot 7-7/8"
FW-AY.5.5X150V	Screwdriver, 1000V 5.5 mm Slot 10-1/8"
FW-AY.6.5X150V	Screwdriver, 1000V 6.5 mm Slot 10-1/2"
FW-AY.8X150VE	Screwdriver, 1000V 8 mm Slot 10-1/2"
FW-APY.1X100VE	Screwdriver, 100V PH1
FW-APY.2X125VE	Screwdriver, 1000V PH2
FA-113.10TAVSE	Set 1000V SE 41 PC.
FA-412.14AVSE	Cable Cutter, 1000V SE 9"
FA-187.18AVSE	Plier Combination, 1000V SE 7.25"
FA-192.16AVSE	Plier Diagonal, 1000V SE 6.5"

Contents	Description
FA-391.16AVSE	Plier Diagonal Cutter, 1000V SE 6.5"
FA-194.17AVSE	Wire Stripper, 1000V SE 6.5"
FA-188.16AVSE	Plier Flatnose, 1000V SE 6.5"
FM-DELA.401.00	Ruler, Folding 2m
FT-AV.HT1B	Volt Test Screwdriver, 90-480V
FT-BC.109VSE	Gloves Leather Size 9
FT-1820.AVSE	Plier Halfround, 1000V SE 7-7/8"
FT-BP.10	Storage Case
FC-R.400AVSE	1/4" Drive 10 PC. Socket Set



# Electrical Tools



## SET NO. FC-2180B.VSE - FACOM® 9 PC. 1000V SE

- Basic set for servicing workshop electrical gear.
- Supplied in leather bag.
- Weight: 4.12 lbs.



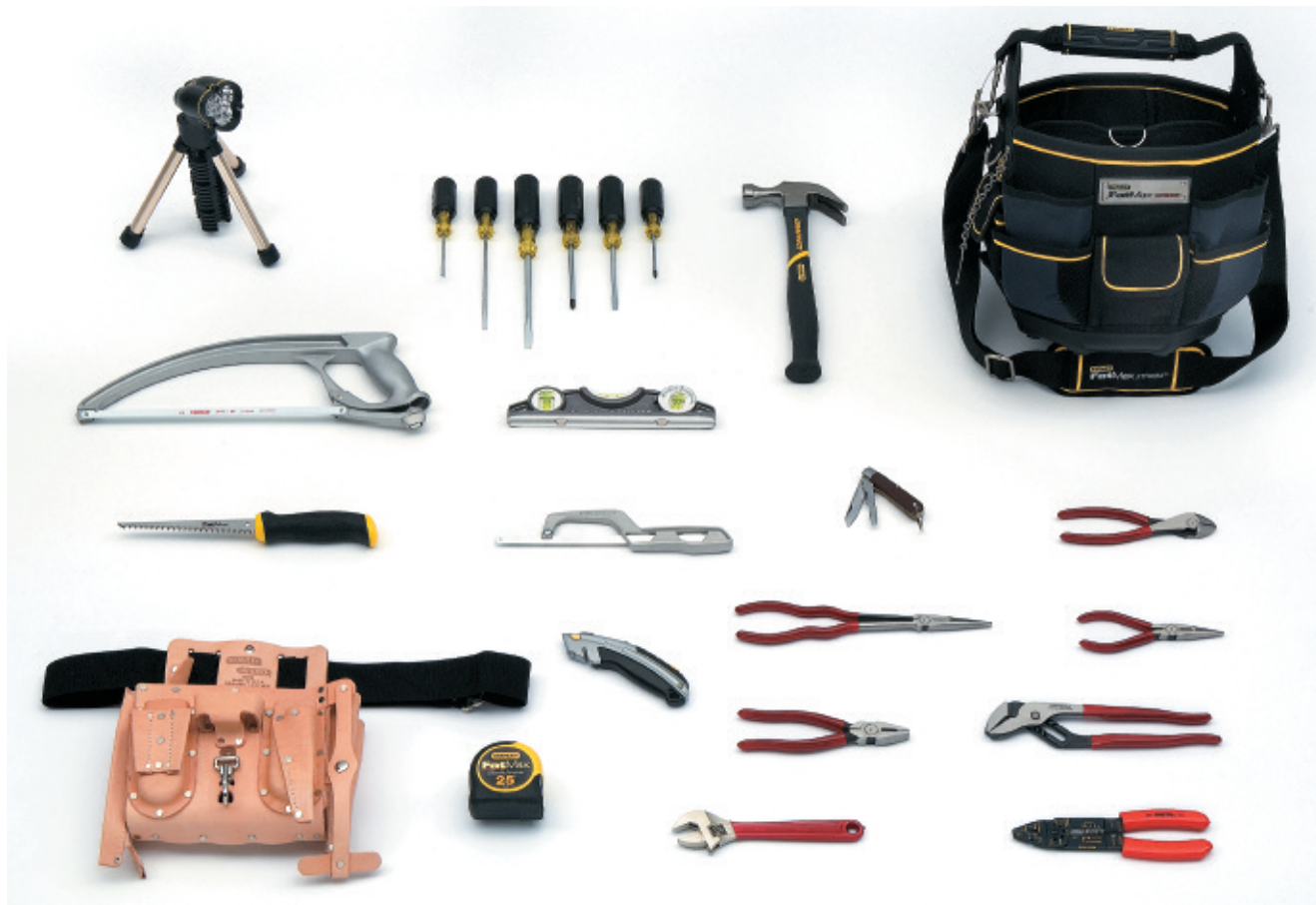
Contents	Description
FT-1820.AVSE	Plier Halfround, 1000V SE 7-7/8"
FA-194.17AVSE	Wire Stripper, 1000V SE 6.5"
FA-189.17AVSE	Plier Roundnose, 1000V SE 6.5"
FA-391.16AVSE	Plier Diagonal Cutter, 1000V SE 6.5"
FW-AY.4X100VE	Screwdriver, 1000V 4 mm Slot 7-7/8"

Contents	Description
FW-APY.1X100VE	Screwdriver, 100V PH1
FW-AY.5.5X150V	Screwdriver, 1000V 5.5 mm Slot 10-1/8"
FA-187.18AVSE	Plier Combination, 1000V SE 7.25"
FT-BV.100	Leather Tool Case

# Electrical Tools

## SET NO. JTS-0025ELEC - 25 PC. ELECTRICIAN'S TOOL SET

- 25 Pieces.
- Contains: 1 Wrench, 1 Striking and Struck Tool, 6 Pliers, 6 Screwdrivers, 11 Miscellaneous Tools.
- Enhanced version of Stanley® Proto® 90-732 Electrician's Tool Set.
- Weight: 20 lbs.



Contents	Description
15-809	Metal Mini Hacksaw
51-505	Jacketed Graphite Nailing Hammer CC - 16 OZ.
66-090	Vinyl Grip Standard Slotted Tip Screwdriver, 1/4" x 4"
66-091	Vinyl Grip Standard Slotted Tip Screwdriver 5/16" x 6"
66-096	Vinyl Grip Cabinet Slotted Tip Screwdriver 3/16" x 3"
66-097	Vinyl Grip Cabinet Slotted Tip Screwdriver 3/16" x 6"
65-901	Vinyl Grip Phillips® Tip Screwdriver 1 Pt. x 3"
65-902	Vinyl Grip Phillips® Tip Screwdriver 2 Pt. x 4"
J18500	Knife Electricians 3-3/4"
J209G	Pliers, Diagonal Cutting w/Grip
J226G	Pliers, Needle Nose w/Grip
J240G	Plier Needle Nose Long Reach
J263SG	Pliers, Tongue and Groove 9-1/2" w/Grip
J268G	Pliers, Lineman's w/Grip
J299	Plier Wire Strippers
J95030	Pouch Electrician 10" x 10"
J95230	Belt Web Adjustable 2"
33-725	FatMax® Tape Rule 1-1/4" x 25'
10-788	QuickChange™ Retractable Blade Utility Knife
43-609	FatMax® Xtreme™ Torpedo Level - 9"
95-112	MaxLife™ 369™ Tripod Flashlight
20-001	High Tension Low Profile Hacksaw 12"
J708G	Wrench Adjustable, 8" Grip
20-556	FatMax® Jab Saw
511150M	FatMax® Technician Tool Bag - 12"







## SET NO. FC-R.400AVSE - FACOM® 1/4" DRIVE 10 PC. SOCKET SET

- For working on live components up to 1000V-AC and 1500DC.
- Weight: 1.47 lbs.



Product ID No.	Contents	Description
<b>FC-R.400AVSE</b>	FM-R.6AVSE	Socket, 1/4" Dr. 1000V SE 6 mm
	FM-R.7AVSE	Socket, 1/4" Dr. 1000V SE 7 mm
	FM-R.8AVSE	Socket, 1/4" Dr. 1000V SE 8 mm
	FM-R.10AVSE	Socket, 1/4" Dr. 1000V SE 10 mm
	FM-R.12AVSE	Socket, 1/4" Drive 1000V SE 12 mm
	FM-RT.4AVSE	Hex Bit, 1/4 Dr. 1000V SE 4 mm
	FM-RT.5AVSE	Hex Bit, 1/4" Dr. 1000V SE 5 mm
	FM-RT.6AVSE	Hex Bit, 1/4" Dr. 1000V SE 6 mm
	FT-R.151AVSE	Ratchet, 1/4" Dr. 1000V SE 4-7/8"
	FT-R.210AVSE	Extension, 1/4" Dr. 1000V SE 4.5"



## FACOM® 1/4" SQUARE DRIVE SOCKETS - METRIC - 6 POINT



- For manual use.
- For working on live components up to 1000V-AC and 1500DC.



Product ID No.	A	B	C	L	Weight lbs.
<b>FM-R.6AVSE</b>	6 mm	16 mm	22 mm	22 mm	0.04 lbs.
<b>FM-R.7AVSE</b>	7 mm	17 mm	22 mm	22 mm	0.04 lbs.
<b>FM-R.8AVSE</b>	8 mm	17 mm	22 mm	22 mm	0.04 lbs.
<b>FM-R.10AVSE</b>	10 mm	18 mm	22 mm	22 mm	0.06 lbs.
<b>FM-R.12AVSE</b>	12 mm	22 mm	22 mm	22 mm	0.07 lbs.



## FACOM® 1/4" SQUARE DRIVE SOCKETS - 6 POINT



- For manual use.
- For working on live components up to 1000V AC and 1500DC.



Product ID No.	A	B	Weight lbs.
<b>FM-RT.4AVSE</b>	4 mm	11 mm	0.05 lbs.
<b>FM-RT.5AVSE</b>	5 mm	13 mm	0.06 lbs.
<b>FM-RT.6AVSE</b>	6 mm	14 mm	0.06 lbs.



# Electrical Tools

## FACOM® 1/4" DR. VSE RATCHET

- Sockets and accessories secured by spring-ball.
- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- For manual use.
- Insulated to 1000V AC or 1500 DC.

Product ID No.	L	Weight lbs.
FT-R.151AVSE	5-5/16"	0.28 lbs.



## FACOM® 1/4" SQUARE DRIVE EXTENSION

- Sockets and accessories secured by spring-ball.
- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- For manual use.
- Insulated to 1000V AC or 1500 DC.

Product ID No.	L	Weight lbs.
FT-R.210AVSE	4-23/32"	0.12 lbs.



## SET NO. FC-J.401AVSE - FACOM® 3/8" DRIVE 17 PC. SOCKET SET - 12 POINT

- For working on live components up to 1000V AC and 1500DC.
- Weight: 4.96 lbs.

Product ID No.	Contents	Description
FC-J.401AVSE	FM-J.8AVSE	Socket, 3/8" Drive 1000V VSE 8 mm
	FM-J.10AVSE	Socket, 3/8" Drive 1000V VSE 10 mm
	FM-J.11AVSE	Socket, 3/8" Drive 1000V VSE 11 mm
	FM-J.12AVSE	Socket, 3/8" Drive 1000V VSE 12 mm
	FM-J.13AVSE	Socket, 3/8" Drive 1000V VSE 13 mm
	FM-J.14AVSE	Socket, 3/8" Drive 1000V VSE 14 mm
	FM-J.15AVSE	Socket, 3/8" Drive 1000V VSE 15 mm
	FM-J.17AVSE	Socket, 3/8" Drive 1000V VSE 17 mm
	FM-J.19AVSE	Socket, 3/8" Drive 1000V VSE 19 mm
	FM-JT.4AVSE	Hex Bit, 3/8" Drive 1000V VSE 4 mm
	FM-JT.5AVSE	Hex Bit, 3/8" Drive 1000V VSE 5 mm
	FM-JT.6AVSE	Hex Bit, 3/8" Drive 1000V VSE 6 mm
	FM-JT.7AVSE	Hex Bit, 3/8" Drive 1000V VSE 7 mm
	FM-JT.8AVSE	Hex Bit, 3/8" Drive 1000V VSE 8 mm
	FT-J.121AVSE	T-Handle, 3/8" Drive 1000V VSE
	FT-J.151AVSE	Ratchet, 3/8" Drive 1000V VSE 7"
	FT-J.210AVSE	Extension, 3/8" Drive 1000V VSE 5-7/8"







## FACOM® 3/8" DR. VSE SOCKETS - METRIC - 12 POINT

**M**ETRIC

- For manual use.
- For working on live components up to 1000V AC and 1500DC.



Product ID No.	A	B	C	L	Weight lbs.
<b>FM-J.8AVSE</b>	8 mm	17 mm	18 mm	43 mm	0.08 lbs.
<b>FM-J.10AVSE</b>	10 mm	20 mm	18 mm	43 mm	0.08 lbs.
<b>FM-J.11AVSE</b>	11 mm	21 mm	18 mm	46 mm	0.08 lbs.
<b>FM-J.12AVSE</b>	12 mm	22 mm	18 mm	46 mm	0.09 lbs.
<b>FM-J.13AVSE</b>	13 mm	23 mm	18 mm	46 mm	0.10 lbs.
<b>FM-J.14AVSE</b>	14 mm	25 mm	18 mm	46 mm	0.10 lbs.
<b>FM-J.15AVSE</b>	15 mm	25 mm	18 mm	46 mm	0.11 lbs.
<b>FM-J.16AVSE</b>	16 mm	27 mm	18 mm	46 mm	0.13 lbs.
<b>FM-J.17AVSE</b>	17 mm	27 mm	18 mm	46 mm	0.15 lbs.
<b>FM-J.18AVSE</b>	18 mm	29 mm	18 mm	46 mm	0.16 lbs.
<b>FM-J.19AVSE</b>	19 mm	31 mm	18 mm	50 mm	0.16 lbs.



## FACOM® 3/8" DR. VSE DEEP SOCKETS - METRIC - 12 POINT

**M**ETRIC

- For manual use.
- For working on live components up to 1000V AC and 1500DC.



Product ID No.	A	B	C	L	Weight lbs.
<b>FM-J.8LAVSE</b>	8mm	19 mm	18 mm	63 mm	0.10 lbs.
<b>FM-J.13LAVSE</b>	13mm	22 mm	18 mm	63 mm	0.17 lbs.
<b>FM-J.14LAVSE</b>	14mm	23 mm	18 mm	69 mm	0.18 lbs.
<b>FM-J.16LAVSE</b>	16mm	23 mm	18 mm	76 mm	0.27 lbs.
<b>FM-J.17LAVSE</b>	17mm	25 mm	18 mm	76 mm	0.33 lbs.
<b>FM-J.18LAVSE</b>	18mm	27 mm	18 mm	76 mm	0.37 lbs.
<b>FM-J.19LAVSE</b>	19mm	28 mm	18 mm	76 mm	0.33 lbs.



## FACOM® 3/8" DR. VSE HEX BIT SOCKETS - METRIC

**M**ETRIC

- For manual use.
- For working on live components up to 1000V AC and 1500DC.



Product ID No.	A	B	C	L	Weight lbs.
<b>FM-JT.4AVSE</b>	4mm	10 mm	18 mm	66 mm	0.10 lbs.
<b>FM-JT.5AVSE</b>	5mm	10 mm	18 mm	66 mm	0.10 lbs.
<b>FM-JT.6AVSE</b>	6mm	10 mm	18 mm	66 mm	0.10 lbs.
<b>FM-JT.7AVSE</b>	7mm	10 mm	18 mm	66 mm	0.11 lbs.
<b>FM-JT.8AVSE</b>	8mm	10 mm	18 mm	66 mm	0.13 lbs.
<b>FM-JT.10AVSE</b>	10mm	10 mm	18 mm	66 mm	0.13 lbs.





# Electrical Tools

## FACOM® 3/8" DR. VSE RATCHET

- Sockets and accessories secured by spring-ball.
- 2 color warning handle insulation-color changes from orange to yellow if insulation integrity is compromised.
- For manual use.
- Insulated to 1000V AC or 1500DC.



Product ID No.	L	Weight lbs.
FT-J.151AVSE	7"	0.53 lbs.

## FACOM® 3/8" DR. VSE T-HANDLE

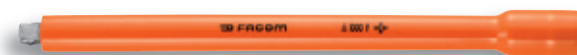
- Sockets and accessories secured by spring-ball.
- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- For manual use.
- Insulated to 1000V AC or 1500 DC.



Product ID No.	Weight lbs.
FT-J.121AVSE	0.85 lbs.

## FACOM® 3/8" DR. VSE EXTENSIONS

- Sockets and accessories secured by spring-ball.
- For manual use.
- Insulated to 1000V AC or 1500 DC.



Product ID No.	A	L	Weight lbs.
FT-J.210AVSE	5-7/8"	5-23/32"	0.33 lbs.
FT-J.215AVSE	10-1/4"	31/32"	0.64 lbs.





## SET NO. FC-S.401AVSE - FACOM® 17 PC. 1/2" DRIVE SOCKET SET - 12 POINT

- For working on live components up to 1000V AC and 1500DC.
- Weight: 7.56 lbs.



Product ID No.	Contents	Description
<b>FC-S.401AVSE</b>	FM-S.8AVSE	Socket, 1/2" Dr. 1000V VSE 8 mm
	FM-S.9AVSE	Socket, 1/2" Dr. 1000V VSE 9 mm
	FM-S.10AVSE	Socket, 1/2" Dr. 1000V VSE 10 mm
	FM-S.11AVSE	Socket, 1/2" Dr. 1000V VSE 11 mm
	FM-S.12AVSE	Socket, 1/2" Dr. 1000V VSE 12 mm
	FM-S.13AVSE	Socket, 1/2" Dr. 1000V VSE 13 mm
	FM-S.14AVSE	Socket, 1/2" Dr. 1000V VSE 14 mm
	FM-S.17AVSE	Socket, 1/2" Dr. 1000V VSE 17 mm
	FM-S.19AVSE	Socket, 1/2" Dr. 1000V VSE 19 mm
	FM-ST.8AVSE	Hex Bit, 1/2 Dr. 1000V SE 8 mm
	FM-ST.10AVSE	Hex Bit, 1/2 Dr. 1000V SE 10 mm
	FM-ST.12AVSE	Hex Bit, 1/2 Dr. 1000V SE 12 mm
	FM-ST.14AVSE	Hex Bit, 1/2 Dr. 1000V SE 14 mm
	FM-ST.17AVSE	Hex Bit, 1/2 Dr. 1000V SE 17 mm
	FT-S.121AVSE	T-Handle, 1/2 Dr. 1000V SE
	FT-S.151AVSE	Ratchet, 1/2" Dr. 1000V SE 10-3/8"
	FT-S.210AVSE	Extension, 1/2" Dr. 1000V SE 5-3/4"



## FACOM® 1/2" DR. VSE SOCKETS - METRIC - 12 POINT



- For manual use.
- For working on live components up to 1000V AC and 1500DC.



Product ID No.	A	B	C	L	Weight lbs.
<b>FM-S.8AVSE</b>	8 mm	17 mm	22 mm	52 mm	0.14 lbs.
<b>FM-S.9AVSE</b>	9 mm	18 mm	22 mm	52 mm	0.15 lbs.
<b>FM-S.10AVSE</b>	10 mm	19 mm	22 mm	52 mm	0.14 lbs.
<b>FM-S.11AVSE</b>	11 mm	20 mm	22 mm	52 mm	0.15 lbs.
<b>FM-S.12AVSE</b>	12 mm	22 mm	22 mm	52 mm	0.15 lbs.
<b>FM-S.13AVSE</b>	13 mm	23 mm	22 mm	52 mm	0.16 lbs.
<b>FM-S.14AVSE</b>	14 mm	24 mm	22 mm	52 mm	0.16 lbs.
<b>FM-S.17AVSE</b>	17 mm	28 mm	22 mm	52 mm	0.18 lbs.
<b>FM-S.19AVSE</b>	19 mm	32 mm	22 mm	52 mm	0.20 lbs.
<b>FM-S.21AVSE</b>	21 mm	33 mm	22 mm	52 mm	0.23 lbs.
<b>FM-S.22AVSE</b>	22 mm	34 mm	22 mm	52 mm	0.25 lbs.







# Electrical Tools

## FACOM® 1/2" DR. VSE DEEP SOCKETS - METRIC - 12 POINT

METRIC

- For manual use.
- For working on live components up to 1000V AC and 1500DC.



Product ID No.	A	B	C	L	Weight lbs.
<b>FM-S.12LAVSE</b>	12mm	22 mm	22 mm	77 mm	0.39 lbs.
<b>FM-S.13LAVSE</b>	13mm	23 mm	22 mm	77 mm	0.39 lbs.
<b>FM-S.14LAVSE</b>	14mm	24 mm	22 mm	77 mm	0.39 lbs.
<b>FM-S.16LAVSE</b>	16mm	27 mm	22 mm	77 mm	0.34 lbs.
<b>FM-S.17LAVSE</b>	17mm	28 mm	22 mm	77 mm	0.39 lbs.
<b>FM-S.18LAVSE</b>	18mm	29 mm	22 mm	77 mm	0.47 lbs.
<b>FM-S.19LAVSE</b>	19mm	32 mm	22 mm	77 mm	0.52 lbs.



## FACOM® 1/2" DR. VSE HEX BIT SOCKETS - METRIC

METRIC

- For manual use.
- For working on live components up to 1000 V - AC and 1500DC.



Product ID No.	A	B	C	L	Weight lbs.
<b>FM-ST.8AVSE</b>	8 mm	10 mm	22 mm	70 mm	0.19 lbs.
<b>FM-ST.10AVSE</b>	10 mm	12 mm	22 mm	70 mm	0.19 lbs.
<b>FM-ST.12AVSE</b>	12 mm	12 mm	22 mm	92 mm	0.31 lbs.
<b>FM-ST.14AVSE</b>	14 mm	17 mm	22 mm	92 mm	0.34 lbs.
<b>FM-ST.17AVSE</b>	17 mm	19 mm	22 mm	92 mm	0.37 lbs.



## FACOM® 1/2" DR. VSE RATCHET

- Sockets and accessories secured by spring-ball.
- 2 color warning handle insulation-color changes from orange to yellow if insulation integrity is compromised.
- For manual use.
- Insulated to 1000V AC or 1500DC.



Product ID No.	L	Weight lbs.
<b>FT-S.151AVSE</b>	10-7/16"	1.24 lbs.



## FACOM® 1/2" DR. VSE EXTENSIONS

- For manual use.
- Sockets and accessories secured by spring-ball.
- Insulated to 1000V AC or 1500DC.



Product ID No.	A	L	Weight lbs.
<b>FT-S.210AVSE</b>	5-3/4"	5-29/32"	0.55 lbs.
<b>FT-S.215AVSE</b>	10-3/8"	10-5/8"	1.04 lbs.





## FACOM® INSULATED VSE MULTIGRIP PLIERS

- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- 1000V insulated grips designed for electrical safety when working on or near live components.

Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
<b>FA-180.VSE</b>	10"	10-1/32"	1-9/16"	1-3/8"	0.81 lbs.



## FACOM® INSULATED VSE HALF ROUND PLIERS

- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- Insulated to 1000V AC or 1500 DC.
- Integrated wire-cutter.
- Burnished nose.

Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
<b>FA-185.20VSE</b>	7-7/8"	7-7/8"	2-15/16"	11/32"	0.45 lbs.
<b>FA-193.16VSE</b>	6-1/2"	6-7/8"	1-13/16"	11/32"	0.41 lbs.



## FACOM® INSULATED VSE COMBINATION PLIERS

- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- Insulated to 1000V AC or 1500 DC.
- Hardened throughout for overall strength.
- Cutting edges locally heat-treated to exceed 60 HRc hardness.
- Burnished nose.

Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
<b>FA-187.16AVSE</b>	6-1/2"	6-1/2"	1-11/32"	1-3/8"	0.44 lbs.
<b>FA-187.18AVSE</b>	7-1/4"	7-3/32"	1-3/8"	1-3/8"	0.54 lbs.
<b>FA-187.20AVSE</b>	8"	7-9/32"	1-43/64"	1-3/8"	0.69 lbs.



# Electrical Tools

## FACOM® INSULATED VSE FLAT NOSE PLIERS

- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- Insulated to 1000V AC or 1500 DC.
- Serrated jaws for firm grip.
- Burnished nose.



Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-188.16AVSE	6-1/2"	6-11/16"	1-31/32"	1-15/32"	0.37 lbs.

## FACOM® INSULATED VSE ROUND NOSE PLIERS

- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- Insulated to 1000V AC or 1500 DC.
- Long snipe nose, serrated for shaping bends or terminals on all types of wire.
- Burnished nose.



Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-189.17AVSE	6-1/2"	6-7/8"	1-25/32"	1-5/16"	0.36 lbs.

## FACOM® INSULATED VSE WIRE STRIPPERS

- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- Strips any wire in all common electrical systems, up to 10 AWG.
- Burnished nose.
- Knob for presetting the cutting depth.



Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-194.17AVSE	6-1/2"	6-7/8"	7/8"	5/16"	0.45 lbs.







## FACOM® INSULATED VSE BENT NOSE PLIERS

- 1000V insulated grips designed for electrical safety when working on or near live components.
- Intergral wire-cutter.
- 2 color warning insulation color changes from orange to yellow if insulation integrity is compromised.
- Burnished nose.



Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
<b>FA-195.20AVSE</b>	7-7/8"	7-15/32"	2-17/32"	1-1/4"	0.43 lbs.

## FACOM® INSULATED VSE CABLE CUTTERS

- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- High performance compact tool.
- Forged safety stops.
- Burnished nose.



Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
<b>FA-412.10AVSE</b>	7-1/2"	7-7/8"	3-1/3"	1-3/8"	0.91 lbs.
<b>FA-412.14AVSE</b>	9"	9"	1-3/16"	1-3/8"	1.12 lbs.
<b>FA-412.150AVSE</b>	17-3/4"	18-1/2"	2-23/64"	1-3/4"	4.71 lbs.

## FACOM® INSULATED VSE CABLE CUTTERS RATCHETING

- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- One-handed operation.
- No cable core distortion.
- Forged and hardened steel blade.



Product ID No.	Size	Length	Jaw Width	Weight lbs.
<b>FA-414.36AVSE</b>	1-3/8"	11-13/16"	4-1/8"	1.78 lbs.
<b>FA-414.45AVSE</b>	1-3/4"	12"	5-5/16"	2.19 lbs.
<b>FA-414.52AVSE</b>	2"	13-3/16"	5-1/2"	2.26 lbs.

# Electrical Tools

## FACOM® INSULATED VSE END CUTTER PLIERS

- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- Cutting edges heat-treated to exceed 60 HRc.
- Burnished nose.



Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-190.16AVSE	6-1/2"	6-11/16"	1/4"	1-3/8"	0.56 lbs.

## FACOM® INSULATED VSE DIAGONAL PLIERS

- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- Cutting edges heat-treated to exceed 60 HRc hardness.
- Burnished nose.



Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-192.14AVSE	5-3/4"	6-3/32"	5/8"	1-3/16"	0.48 lbs.
FA-192.16AVSE	6-1/2"	6-1/2"	23/32"	13/32"	0.54 lbs.
FA-192.18AVSE	7-1/4"	7-9/32"	25/32"	7/16"	0.60 lbs.

## FACOM® INSULATED VSE DIAGONAL CUTTERS

- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- Inset joint.
- Burnished nose.



Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-391.16AVSE	6-1/2"	6-5/16"	3/4"	13/32"	0.47 lbs.



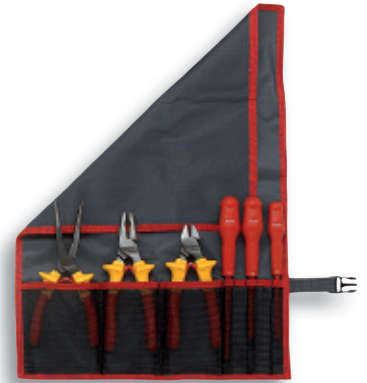


## SET NO. FW-184.J5VE - 6 PC. FACOM® 1000VE PLIER/SCREWDRIVER SET

- Designed for working on live components up to 1000V AC and 1500V DC.
- Weight: 2.43 lbs.



Product		
ID No.	Contents	Item Description
<b>FW-184.J5VE</b>	FA-185.20VE	Pliers Halfround 1000V VE 7-7/8"
	FA-187.18VE	Pliers Combination 1000V VE 7-1/4"
	FA-192.16VE	Pliers Diag 1000V 6-1/4"
	FW-ADY.1X100VE	Screwdriver 1000V PZ1
	FW-AY.4X100VE	Screwdriver 1000V 4 mm Slot 7-7/8"
	FW-AY.5.5X125V	Screwdriver 1000V 5.5 mm Slot 8-7/8"



## SET NO. FW-MOD.VE - 3 PC. FACOM® 3 PC. VE PLIERS SET

- 1000V insulated grips designed for electrical safety when working on or near live components.
- Handles designed to resist workshop chemicals (Skydrol®, chloroethene, acetone, petrol).
- Weight: 1.66 lbs.



Product		
ID No.	Contents	Size
<b>FW-MOD.VE</b>	FA-180.VE	10"
	FA-194.17VE	6-1/2"
	FA-391.16VE	6-1/2"



## FACOM® INSULATED VE MULTIGRIP PLIERS

- 1000V insulated grips designed for electrical safety when working on or near live components.



Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
<b>FA-180.VE</b>	10"	10"	1-3/16"	7/8"	0.78 lbs.



Skydrol is a trademark of Solutia, Inc.



# Electrical Tools

## FACOM® INSULATED VE HALF ROUND PLIERS

- 1000V insulated grips designed for electrical safety when working on or near live components.
- Side cutter for steel wire up to 14 AWG.
- Serrated jaws with central area for handling rods.

Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-185.20VE	7-7/8"	7-7/8"	2-15/16"	11/32"	0.45 lbs.
FA-193.16VE	6-1/2"	6-7/8"	1-13/16"	11/32"	0.41 lbs.



## FACOM® INSULATED VE COMBINATION PLIERS

- 1000V insulated grips designed for electrical safety when working on or near live components.
- High-frequency hardened cutting edges for power and durability.
- Nose profile designed for strength and durability.
- Handles designed to resist workshop chemicals (Skydrol®, chloroethene, acetone, petrol).

Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-187.16VE	6-1/2"	6-1/2"	1-11/32"	3/8"	0.43 lbs.
FA-187.18VE	7-1/4"	7-9/32"	1-13/32"	13/32"	0.53 lbs.



## FACOM® INSULATED VE FLAT NOSE PLIERS

- 1000V insulated grips designed for electrical safety when working on or near live components.
- Serrated jaws for firm grip.
- Nose designed for confined spaces.
- Handles designed to resist workshop chemicals (Skydrol®, chloroethene, acetone, petrol).

Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-188.16VE	6-1/2"	6-11/16"	1-13/16"	11/32"	0.38 lbs.
FA-188.20VE	7-7/8"	8-1/16"	2-15/16"	11/32"	0.42 lbs.



Skydrol is a trademark of Solutia, Inc.





## FACOM® INSULATED VE ROUND NOSE PLIERS

- 1000V insulated grips designed for electrical safety when working on or near live components.
- For shaping loops, bends or rings.
- Serrated jaws.

Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
<b>FA-189.17VE</b>	6-1/2"	6-7/8"	1-13/16"	11/32"	0.37 lbs.



## FACOM® INSULATED WIRE STRIPPER PLIERS

- 1000V insulated grips designed for electrical safety when working on or near live components.
- Jaws angled at 40°.
- Cuts single and multi-cone wire up to 14 AWG.
- Serrated jaws with central area for handling rods.

Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
<b>FA-194.17VE</b>	6-1/2"	7-11/16"	1"	5/8"	0.38 lbs.



## FACOM® INSULATED VE BENT NOSE PLIERS

- 1000V insulated grips designed for electrical safety when working on or near live components.
- Jaws angled at 40°.
- Cuts single and multi-cone wire up to 14 AWG.
- Serrated jaws with central area for handling rods.

Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
<b>FA-195.16VE</b>	6-3/8"	6-7/8"	1-5/8"	11/32"	0.39 lbs.
<b>FA-195.20VE</b>	7-7/8"	7-15/32"	2-3/4"	11/32"	0.43 lbs.



# Electrical Tools

## FACOM® INSULATED VE END CUTTER PLIERS

- 1000V insulated grips designed for electrical safety when working on or near live components.
- High-frequency hardened cutting edges ensure durable cut quality for hard wire up to 12 AWG.
- Offset pivot to help reduce manual cutting efforts required with a center pivot point.



Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-190.16VE	6-1/2"	6-1/2"	1/4"	7/16"	0.51 lbs.

## FACOM® INSULATED VE DIAGONAL PLIERS

- 1000V insulated grips designed for electrical safety when working on or near live components.
- High-frequency hardened cutting edges ensure durable cut quality for hard wire up to 12 AWG.
- Offset pivot to help reduce manual cutting efforts required with a center pivot point.



Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-192.14VE	5-3/4"	5-23/32"	5/8"	3/8"	0.36 lbs.
FA-192.16VE	6-1/4"	6-7/8"	23/32"	13/32"	0.46 lbs.
FA-192.18VE	7-1/8"	7-15/32"	25/32"	7/16"	0.57 lbs.

## FACOM® INSULATED VE DIAGONAL CUTTERS

- 1000V insulated grips designed for electrical safety when working on or near live components.
- Edges designed for clean cut in copper wire.
- High-frequency hardened cutting edges for durable cut accuracy.
- Snip nose for maneuverability in control cabinets or cutting cable loom ties.
- Offset pivot to help reduce manual cutting efforts required with a center pivot point.



Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-391.16VE	6-1/2"	6-11/16"	3/4"	13/32"	0.46 lbs.







## WIRE STRIPPERS - INSULATED

- Tested to 10,000 Volts, Rated to 1000V AC/1500V DC.
- Convenient zipper case for storage and transport.

Product ID No.	Length	Weight lbs.
<b>J188</b>	6-19/64"	0.40 lbs.



## DIAGONAL CUTTING PLIERS

- Induction hardened cutting edges.
- Thin narrow jaws for access in tight areas.
- Plastisol grips for added comfort.

Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
<b>J285G</b>	4-5/8"	13/32"	7/16"	1/4"	0.13 lbs.	B107.11
<b>J204G</b>	4-7/16"	18/32"	9/16"	5/16"	0.22 lbs.	B107.11
<b>J205G</b>	5-1/16"	3/4"	19/32"	3/8"	0.24 lbs.	B107.11
<b>J206G</b>	6-1/16"	13/16"	3/4"	7/16"	0.40 lbs.	B107.11
<b>J207G</b>	7-5/16"	1"	7/8"	15/32"	0.50 lbs.	B107.11



## DIAGONAL CUTTING PLIERS

- Coil springs.
- Induction hardened cutting edges.
- Thin narrow jaws for access in tight areas.
- Plastisol grips for added comfort.

Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
<b>J285BSG</b>	4-5/8"	13/32"	7/16"	1/4"	0.13 lbs.	B107.11
<b>J204SG</b>	4-7/16"	18/32"	9/16"	5/16"	0.22 lbs.	B107.11



# Electrical Tools

## DIAGONAL CUTTING PLIERS - HEAVY-DUTY

- Induction hardened cutting edge.
- Powerful leverage cuts heavy wire with ease.
- Plastisol grips for added comfort.



Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
<b>J209G</b>	7-5/16"	2-5/32"	7/8"	1/2"	0.58 lbs.	B107.11
<b>J210G</b>	8-1/2"	3/4"	1-7/32"	15/32"	0.64 lbs.	B107.11

## NEEDLE NOSE PLIERS

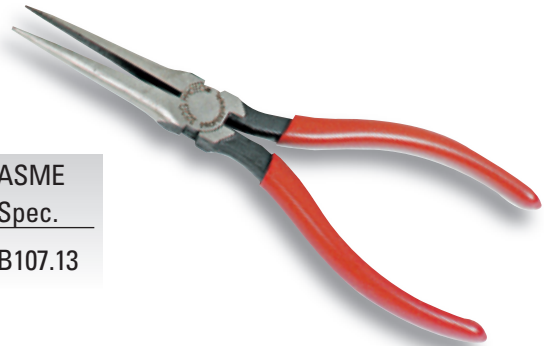
- Diamond serrated jaws.
- Plastisol grips for added comfort.



Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
<b>J282G</b>	4-7/8"	1-3/16"	7/16"	1/4"	0.16 lbs.	B107.20M
<b>J229-03G</b>	5-9/16"	1-11/16"	1/2"	9/32"	0.23 lbs.	B107.20M
<b>J220G</b>	6-5/8"	1-7/8"	11/16"	3/8"	0.35 lbs.	B107.20M

## NEEDLE NOSE PLIERS - LONG THIN

- Very thin nose allows access into minimum clearance areas.
- Diamond serrated jaws.
- Plastisol grips for added comfort.



Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
<b>J222G</b>	6-1/16"	2-1/8"	11/16"	11/32"	0.28 lbs.	B107.13





## NEEDLE NOSE PLIERS - LONG EXTRA THIN

- Extra slim-nose pliers for light precision work.
- Designed for gripping, looping, and twisting wire in confined areas.
- Plastisol grips for added comfort.

Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
<b>J223G</b>	6-5/32"	2-5/32"	1/2"	9/32"	0.20 lbs.	B107.20



## NEEDLE NOSE PLIERS - BENT NOSE

- Nose bent to 78° angle to reach around obstructions.
- Very thin nose allows access into minimum clearance areas.
- Diamond serrated jaws.
- Plastisol grips for added comfort.

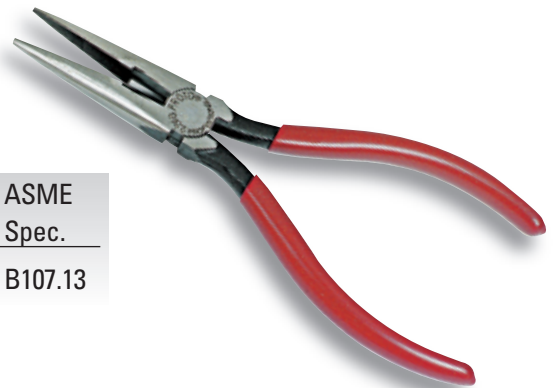
Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
<b>J225G</b>	6-5/16"	1-5/8"	3/4"	3/8"	0.42 lbs.	B107.13



## NEEDLE NOSE PLIERS WITH SIDE CUTTER

- Induction hardened cutting edges.
- Diamond serrated jaws.
- Plastisol grips for added comfort.

Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
<b>J226G</b>	6-5/8"	1-7/8"	11/16"	3/8"	0.34 lbs.	B107.13



# Electrical Tools

## NEEDLE NOSE PLIERS WITH SIDE CUTTER

- Induction hardened cutting edges.
- Diamond serrated jaws.
- Coil spring.
- Plastisol grips for added comfort.



Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
<b>J229-01G</b>	5-9/16"	1-11/16"	1/2"	9/32"	0.23 lbs.	B107.13
<b>J226-01G</b>	7-1/2"	2-5/8"	3/4"	3/8"	0.40 lbs.	B107.13

## NEEDLE NOSE PLIERS - LONG REACH

- Extra long handle allows greater access to confined, restricted areas.
- Improved fulcrum point provides more holding power at the tip with less gripping effort.
- Plastisol grips for added comfort



Product ID No.	L	A	B	C	Weight lbs.
<b>J240G</b>	11-9/16"	2-13/16"	23/32"	13/32"	0.63 lbs.

## NEEDLE NOSE PLIERS - LONG REACH - BENT NOSE

- Extra long handle allows greater access to confined, restricted areas.
- Improved fulcrum point provides more holding power at the tip with less gripping effort.
- Bent nose design to reach around obstructions.
- Plastisol grips for added comfort.



Product ID No.	L	A	B	C	Weight lbs.
<b>J241G</b>	11-3/8"	2-9/16"	23/32"	13/32"	0.62 lbs.



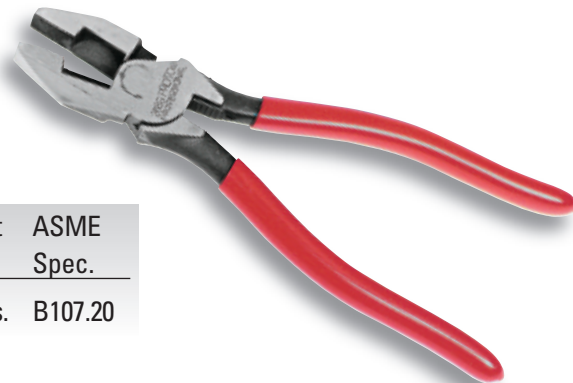




## LINEMAN'S PLIERS

- For utility linemen, wiring and electrical equipment installation, and maintenance.
- Induction hardened cutting edges and diamond serrated jaws.
- Built-in insulation crusher.
- Plastisol grips for added comfort.

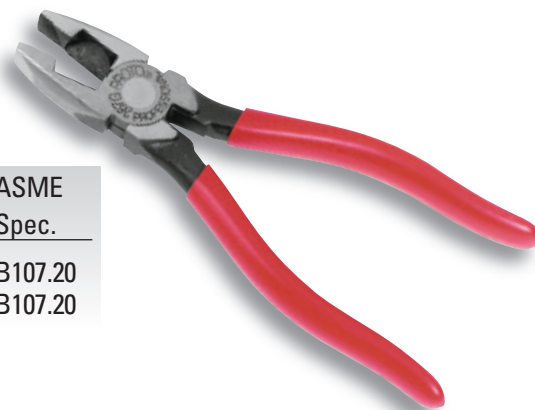
Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
<b>J268G</b>	8-5/8"	1-1/2"	1-3/16"	5/8"	0.98 lbs.	B107.20



## LINEMAN'S PLIERS - NEW ENGLAND STYLE

- Slim rounded nose for easy access in restricted spaces.
- Diamond serrated jaws.
- Plastisol grips for added comfort.

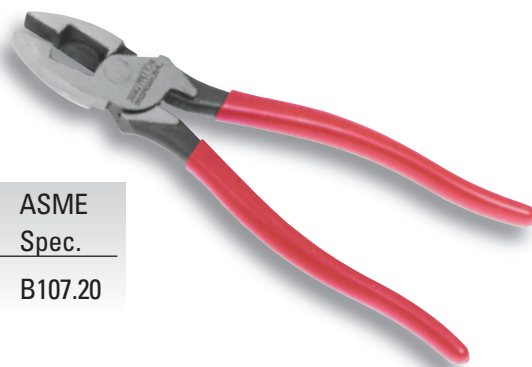
Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
<b>J266G</b>	6-3/16"	1-3/32"	29/32"	1/2"	0.50 lbs.	B107.20
<b>J267G</b>	7-1/4"	1-9/32"	1-1/8"	1/2"	0.67 lbs.	B107.20



## LINEMAN'S PLIERS - HIGH LEVERAGE

- Jaws have offset rivet for increased leverage.
- Designed for cutting No. 8 and other large wires.
- Diamond serrated jaws.
- Plastisol grips for added comfort.

Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
<b>J269G</b>	9-1/4"	1-3/16"	1-3/32"	5/8"	1.10 lbs.	B107.20



# Electrical Tools

## LINEMAN'S PLIERS - PIPE JAW

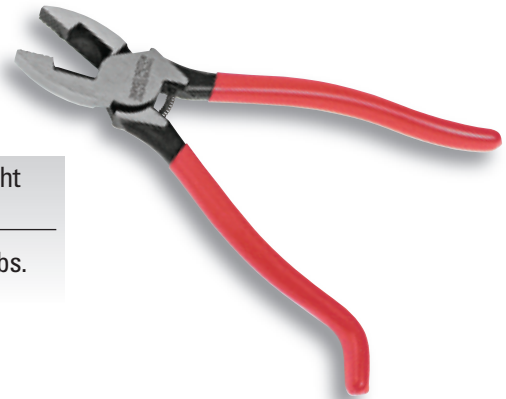
- Serrated flat nose jaws with toothed pipe grip.
- Plastisol grips for added comfort.



Product ID No.	L	A	B	C	Weight lbs.
<b>J268PJG</b>	8-3/8"	1-3/4"	1-1/16"	17/32"	0.87 lbs.

## IRONWORKERS PLIERS

- Designed to tie and cut wire associated with reinforcing bar.
- Hook bend in handle to reduce slippage when gripping and pulling.
- Coil spring holds jaws open, yet close easily.
- Plastisol grips for added comfort.



Product ID No.	L	A	B	C	Weight lbs.
<b>J269WSG</b>	9-1/4"	1-9/16"	1-9/32"	5/8"	1.16 lbs.

## WIRE STRIPPER/CRIMPER

- Strips 10-22 AWG - American Wire Gauge.
- Box style crimp.
- Crimps insulated and non-insulated terminals for 10-22 AWG.
- Crimps non-insulated 7mm and 8mm auto ignition wire.
- Cuts screw/bolt sizes 4-40, 5-40, 6-32, 8-32, 10-32, 10-24.
- Anvil type wire cutter for cutting copper wire.
- Air-pocket cushion grips for comfort.



Product ID No.	Length	Weight lbs.
<b>J299</b>	8-1/2"	0.45 lbs.





## WIRE STRIPPER / CUTTER

- Strips wire sizes 10, 12, 14, 16, 18 and 20 AWG - American Wire Gauge.
- Wire cutter for copper wire.
- Plier nose for pulling and looping wire.
- Spring return and convenient handle lock.
- Platisol grips for added comfort.

Product ID No.	Length	Weight lbs.
<b>J297</b>	6-1/16"	0.21 lbs.



## WIRE STRIPPER

- Strips wire sizes 22, 24, 26, 28, and 30 AWG - American Wire Gauge.
- Wire cutter.
- Plier nose for pulling and looping wire.
- Automatic spring return.
- Platisol grips for added comfort.

Product ID No.	Length	Weight lbs.
<b>J296</b>	6-1/16"	0.21 lbs.



## CABLE CUTTER

- Cuts up to 3/0 fine stranded copper battery cable (not for use on steel cable).
- Precision ground blades minimize deflection.
- Positive fastener maintains pressure on matching cutting surfaces.
- Platisol grips for added comfort.

Product ID No.	Length	Weight lbs.
<b>J288</b>	7-1/2"	0.56 lbs.



# Electrical Tools

## SET NO. J299R - 3 PC. LOCKING PLIERS SET

- Weight: 2.51 lbs.

Product ID No.	Contents	Description	Length
<b>J299R</b>	J290R	Straight Jaw	7"
	J292R	Curved Jaw	10"
	J286LN	Long Nose	6"
	J25TR22C	Tool Pouch	-



## 5 IN 1 MULTI-PURPOSE PLIERS

- Strips 10-22 AWG - American Wire Gauge.
- Crimps insulated and non-insulated terminals for 10-22 AWG wire.
- Crimps non-insulated 7mm and 8mm auto ignition wire.
- Cuts screw/bolt sizes 4-40, 5-40, 6-32, 8-32, 10-32, 10-24 and copper wire.
- Extended length curved cutter to handle heavier wire with less force.
- Plier nose designed to grip, bend, and pull wire.
- Plastisol grips for added comfort.



Product ID No.	Length	Weight lbs.
<b>J298</b>	8-1/4"	0.50 lbs.

## SET. NO. FW-MOD.AYVE - 8 PC. FACOM® 1000V SCREWDRIVER SET

- Designed for working on live components up to 1000V AC and 1500V DC.
- Weight: 2 lbs.

Product ID No.	Contents	Size	Blade Width
<b>FW-MOD.AYVE</b>	FW-ADY.1X100VE	PZ1	3/16"
	FW-ADY.2X125VE	PZ2	1/4"
	FW-APY.1X100VE	1	3/16"
	FW-APY.2X125VE	2	1/4"
	FW-AY.3.5X100V	3.5 mm	1/8"
	FW-AY.4X100VE	4 mm	5/32"
	FW-AY.5.5X125V	5.5 mm	7/32"
	FW-AY.6.5X150V	6.5 mm	1/4"





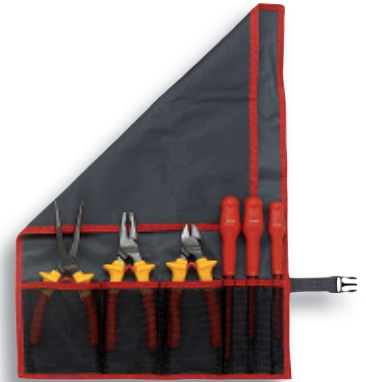


## SET NO. FW-184.J5VE - 6 PC. FACOM® 1000VE PLIER/SCREWDRIVER SET

- Designed for working on live components up to 1000V AC and 1500V DC.
- Weight: 2.43 lbs.



Product		
ID No.	Contents	Item Description
<b>FW-184.J5VE</b>	FA-185.20VE	Pliers Halfround 1000V VE 7-7/8"
	FA-187.18VE	Pliers Combination 1000V VE 7-1/4"
	FA-192.16VE	Pliers Diag 1000V 6-1/4"
	FW-ADY.1X100VE	Screwdriver 1000V PZ1
	FW-AY.4X100VE	Screwdriver 1000V 4 mm Slot 7-7/8"
	FW-AY.5.5X125V	Screwdriver 1000V 5.5 mm Slot 8-7/8"



## FACOM® INSULATED SCREWDRIVERS - SLOTTED

- Designed for working on live components up to 1000V AC and 1500V DC.



Product					
ID No.	Length	Size	Blade Width	Shank Length	Weight lbs.
<b>FW-AY.10X150VE</b>	11"	10 mm	13/32"	5-29/32"	0.46 lbs.
<b>FW-AY.10X200VE</b>	13"	10 mm	13/32"	7-7/8"	0.53 lbs.
<b>FW-AY.12X250VE</b>	15"	12 mm	15/32"	9-27/32"	0.8 lbs.
<b>FW-AY.2.5X50VE</b>	6"	2.5 mm	3/32"	1-31/32"	0.04 lbs.
<b>FW-AY.2.5X75VE</b>	7"	2.5 mm	3/32"	2-15/16"	0.06 lbs.
<b>FW-AY.3.5X100V</b>	8"	3.5 mm	1/8"	3-15/16"	0.08 lbs.
<b>FW-AY.3.5X75VE</b>	7"	3.5 mm	1/8"	2-15/16"	0.07 lbs.
<b>FW-AY.3X75VE</b>	7"	3 mm	1/8"	2-15/16"	0.07 lbs.
<b>FW-AY.4X100VE</b>	8"	4 mm	5/32"	3-15/16"	0.09 lbs.
<b>FW-AY.4X150VE</b>	10"	4 mm	5/32"	5-29/32"	0.1 lbs.
<b>FW-AY.5.5X125V</b>	9"	5.5 mm	7/32"	4-29/32"	0.16 lbs.
<b>FW-AY.5.5X150V</b>	11"	5.5 mm	7/32"	5-29/32"	0.17 lbs.
<b>FW-AY.5.5X200V</b>	13"	5.5 mm	7/32"	7-7/8"	0.2 lbs.
<b>FW-AY.6.5X150V</b>	11"	6.5 mm	1/4"	5-29/32"	0.26 lbs.
<b>FW-AY.6.5X200V</b>	13"	6.5 mm	1/4"	7-7/8"	0.29 lbs.
<b>FW-AY.8X150VE</b>	11"	8 mm	5/16"	5-29/32"	0.35 lbs.
<b>FW-AY.8X175VE</b>	12"	8 mm	5/16"	6-7/8"	0.37 lbs.
<b>FW-AY.8X200VE</b>	13"	8 mm	5/16"	7-7/8"	0.4 lbs.





# Electrical Tools

## FACOM® INSULATED SCREWDRIVERS - POZIDRIVE

- Designed for working on live components up to 1000V AC and 1500V DC.

Product ID No.	L	Size	Blade Width	Shank Length	Weight lbs.
<b>FW-ADY.0X75VE</b>	6-7/8"	PZ0	5/32"	2-15/16"	0.08 lbs.
<b>FW-ADY.1X100VE</b>	8-1/4"	PZ1	3/16"	3-15/16"	0.14 lbs.
<b>FW-ADY.2X125VE</b>	9-13/32"	PZ2	1/4"	4-29/32"	0.22 lbs.
<b>FW-ADY.3X150VE</b>	10-13/16"	PZ3	5/16"	5-29/32"	0.35 lbs.



## FACOM® INSULATED SCREWDRIVERS - SLOTTED AND POZIDRIVE

- Designed for working on live components up to 1000V AC and 1500V DC.

Product ID No.	L	Size	Blade Width	Shank Length	Weight lbs.
<b>FW-ADYB.1X100V</b>	8-9/32"	PZ1	3/16"	3-15/16"	0.14 lbs.
<b>FW-ADYB.2X125V</b>	9-21/32"	PZ2	1/4"	4-5/16"	0.23 lbs.



## FACOM® INSULATED SCREWDRIVERS - PHILLIPS®

- Designed for working on live components up to 1000V AC and 1500V DC.

Product ID No.	L	Size	Blade Width	Shank Length	Weight lbs.
<b>FW-APY.0X75VE</b>	6-7/8"	0	5/32"	2-15/16"	0.08 lbs.
<b>FW-APY.1X100VE</b>	8-9/32"	1	3/16"	3-15/16"	0.14 lbs.
<b>FW-APY.2X125VE</b>	9-21/32"	2	1/4"	4-29/32"	0.22 lbs.
<b>FW-APY.3X150VE</b>	11-1/32"	3	5/16"	5-29/32"	0.35 lbs.
<b>FW-APY.4X200VE</b>	12-13/16"	4	13/32"	7-7/8"	0.53 lbs.



## FACOM® INSULATED SCREWDRIVERS - SLOTTED AND PHILLIPS®

- Designed for working on live components up to 1000V AC and 1500V DC.

Product ID No.	L	Size	Blade Width	Shank Length	Weight lbs.
<b>FW-APYB.1X100V</b>	8-1/16"	1	3/16"	3-15/16"	0.15 lbs.
<b>FW-APYB.2X125V</b>	9-21/32"	2	1/4"	4-29/32"	0.23 lbs.



# Electrical Tools



## FACOM® INSULATED 4-WAY NUT DRIVERS

- Insulated to 1000V AC or 1500 DC.

Product ID No.	Size	Length	Weight lbs.
<b>FM-71.1AVSE</b>	6X8 10X12	6"	0.36 lbs.
<b>FM-71.2AVSE</b>	6X9 11X13	6"	0.54 lbs.
<b>FM-71.3AVSE</b>	8X10 12X14	6"	0.56 lbs.



## FACOM® INSULATED T-HANDLE NUT DRIVERS

- Insulated to 1000V AC or 1500 DC.

Product ID No.	Size	Length	Weight lbs.
<b>FM-94T.6AVSE</b>	6mm	5-3/4"	0.33 lbs.
<b>FM-94T.8AVSE</b>	8 mm	5-3/4"	0.36 lbs.
<b>FM-94T.10AVSE</b>	10 mm	5-3/4"	0.41 lbs.
<b>FM-94T.11AVSE</b>	11mm	5-3/4"	0.47 lbs.
<b>FM-94T.12AVSE</b>	12mm	5-3/4"	0.46 lbs.
<b>FM-94T.13AVSE</b>	13 mm	5-3/4"	0.5 lbs.
<b>FM-94T.14AVSE</b>	14mm	5-3/4"	0.51 lbs.



## FACOM® INSULATED T-HANDLE LONG NUT DRIVERS

- Insulated to 1000V AC or 1500 DC.

Product ID No.	Size	Length	Weight lbs.
<b>FM-94TL.10AVSE</b>	10mm	12-1/2"	0.91 lbs.
<b>FM-94TL.13AVSE</b>	13mm	12-1/2"	1.15 lbs.
<b>FM-94TL.16AVSE</b>	16mm	12-1/2"	1.85 lbs.
<b>FM-94TL.17AVSE</b>	17mm	12-1/2"	1.92 lbs.
<b>FM-94TL.19AVSE</b>	19mm	12-1/2"	2.06 lbs.



## FACOM® VSE ADJUSTABLE WRENCHES

- Finger stops.
- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- Graduated head, 15° angle.
- Burnished finish.
- Thumbwheel rotates counterclockwise.

Product ID No.	Size	Length	Weight lbs.
<b>FM-113.8TAVSE</b>	8"	8-15/32"	0.83 lbs.
<b>FA-113.10TAVSE</b>	10"	10-7/16"	1.37 lbs.
<b>FA-113.12TAVSE</b>	12"	12-19/32"	1.93 lbs.
<b>FA-113.15TAVSE</b>	15"	15-9/16"	3.12 lbs.



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# Electrical Tools

## FACOM® VSE OPEN END WRENCHES

- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- Specific heat treatment and oiled quenching achieve core hardness without embrittlement or distortion.
- Size tolerances applied by Facom® exceed standard specifications.



Product ID No.	Size	Head Thickness	End 1 Diameter	Length	Weight lbs.
FM-46.8AVSE	8 mm	7/8"	5/16"	4-23/32"	0.07 lbs.
FM-46.9AVSE	9 mm	5/16"	11/32"	4-29/32"	0.09 lbs.
FM-46.10AVSE	10 mm	31/32"	11/32"	5-1/8"	0.11 lbs.
FM-46.11AVSE	11 mm	1-5/32"	13/32"	5-5/16"	0.12 lbs.
FM-46.12AVSE	12 mm	1-3/16"	13/32"	5-5/16"	0.14 lbs.
FM-46.13AVSE	13 mm	1-1/4"	7/16"	5-29/32"	0.17 lbs.
FM-46.14AVSE	14 mm	1-11/32"	7/16"	6-5/16"	0.20 lbs.
FM-46.15AVSE	15 mm	1-13/32"	7/16"	6-5/16"	0.20 lbs.
FM-46.16AVSE	16 mm	1-1/2"	15/32"	6-11/16"	0.26 lbs.
FM-46.17AVSE	17 mm	1-5/8"	15/32"	7-3/32"	0.29 lbs.
FM-46.18AVSE	18 mm	1-21/32"	15/32"	7-3/32"	0.33 lbs.
FM-46.19AVSE	19 mm	1-25/32"	15/32"	7-11/16"	0.34 lbs.

## FACOM® VSE BOX WRENCHES - 12 POINT

- Insulated to 1000V or 1500 DC.
- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.



Product ID No.	Size	Length	Offset Head	C	Weight lbs.
FM-55.8AVSE	8	150	16	8	0.12 lbs.
FM-55.9AVSE	9	151	17	9	0.13 lbs.
FM-55.10AVSE	10	157	19	9	0.12 lbs.
FM-55.11AVSE	11	160	20	10	0.15 lbs.
FM-55.12AVSE	12	165	21	11	0.23 lbs.
FM-55.13AVSE	13	165	23	12	0.22 lbs.
FM-55.14AVSE	14	180	25	12	0.27 lbs.
FM-55.15AVSE	15	183	26	12	0.29 lbs.
FM-55.16AVSE	16	195	27	13	0.34 lbs.
FM-55.17AVSE	17	198	30	14	0.34 lbs.
FM-55.18AVSE	18	215	30	14	0.46 lbs.
FM-55.19AVSE	19	215	32	14	0.49 lbs.
FM-55.21AVSE	21	245	35	16	0.75 lbs.







## ELECTRICIAN'S KNIFE

- Spear blade.
- Stripping blade.
- Self-locking combination screwdriver, insulation cutter and wire scraper blade.

Product ID No.	Closed Position Overall Length	Open Position Overall Length	Blade Length	Weight lbs.
<b>J18535</b>	3-3/4"	7"	3"	0.32 lbs.



## ELECTRICIAN'S KNIFE

- Spear blade.
- Self-locking combination screwdriver, insulation cutter and wire scraper blade.

Product ID No.	Closed Position Overall Length	Open Position Overall Length	Blade Length	Weight lbs.
<b>J18500</b>	3-3/4"	7"	3"	0.24 lbs.



## FACOM® INSULATED KNIFE VSE SERIES

- For working on live components up to 1000V AC and 1500V DC.
- Thick, angled blade with flat tip.
- Cushion handle.
- Blade sheath.
- Effective blade length 2".



Product ID No.	Blade Length	Overall Length	Weight lbs.
<b>FT-1820.AVSE</b>	2-3/8"	7-1/2"	0.19 lbs.





# Electrical Tools

## FACOM® INSULATED HACKSAW VSE SERIES

- Two blade positions.
- Butterfly tension nut.
- Supplied with bi-metal blade.
- 12" Blade replacement.



Product ID No.	Blade Length	Overall Length	Weight lbs.
<b>FT-602.AVSE</b>	12"	18-1/2"	1.3 lbs.

## 2-POCKET CABLE SPLICER LEATHER HOLDER

- Heavy-duty top grain saddle leather.
- 2 flared pockets for cable splicer, knife and scissors.
- 2-1/2" belt slots.
- Weight: 0.17 lbs.

Product ID No.	Weight lbs.
<b>J95170</b>	0.17 lbs.





## 14-POCKET LEATHER EXTRA CAPACITY ELECTRICIAN'S TOOL POUCH

- 10" x 10"
- 4 Large gusseted utility pockets and 2 preformed plier pockets.
- 4 Screwdriver slots, 12" tape rule holder, secured T-type tape holder with swivel rivet.
- 2-3/4" Belt slots.
- Additional features: Sectioned pocket for torpedo level, multi-purpose tool snap, scratch awl pocket and pencil holders.
- Heavy-duty, top grain leather.
- Weight: 1.43 lbs.

Product	Weight
ID No.	lbs.
<b>J95030</b>	1.43 lbs.



## FACOM® SAFETY GLOVES

- Silicon leather to help provide mechanical protection.
- Worn over latex insulating gloves.

Product			Weight
ID No.	Size	Length	lbs.
<b>FT-BC.109VSE</b>	9"	11-13/16"	0.36 lbs.
<b>FT-BC.110VSE</b>	10"	12-19/32"	0.43 lbs.



# WARRANTY AND DISCLAIMER

## LIMITED LIFETIME WARRANTY

The Stanley Works and Proto Industrial Tools (collectively referred to as "TSW/Proto") warrants any of its Proto manufactured products for the useful life of the product against deficiency in material or workmanship.

Torque Wrenches, Multipliers and Testers are warranted for one year, except for calibration which is warranted for 90 days from date of purchase. Torque products can be repaired and recalibrated for a nominal charge at the Stanley Proto Authorized repair center (2195 East View Parkway, Suite 103 Conyers, GA 30013). Defects in material or workmanship will be repaired or replaced at no cost, all other repairs will be at a nominal charge. Torque products are precise measuring devices that require care in handling. Stanley Proto recommends that all micrometer wrenches be recalibrated once a year or more, depending on usage.

## DISCLAIMERS AND LIMITATIONS

- Is subject to the disclaimers and limitations described below and is in lieu of all other warranties, express or implied, including the implied warranty of merchantability or fitness for a particular purpose.
- Gives you specific legal rights. You may also have other rights that vary by state.
- Does not extend to products that have been improperly used, altered, or repaired by any entity other than TSW/Proto.
- Does not extend to any claim for incidental, consequential, or special damages. Some states do not allow the exclusion of limitation of incidental or consequential damages, so this exclusion may not apply to you.
- TSW/Proto makes no representations beyond those contained in this Limited Lifetime Warranty.
- Agents of TSW/Proto have no authority to make representations of any sort beyond those contained in this Limited Lifetime Warranty.

## EXCLUSIVE REMEDY AND CLAIM PROCEDURE

- Distributors of record must act as a return agent.
- The exclusive remedy under this Limited Lifetime Warranty for products determined to be deficient in materials or workmanship by TSW/Proto is repair or replacement with a reconditioned tool of equal value by TSW/Proto.
- The selected remedy is at the sole discretion of TSW/Proto. In no event shall TSW/Proto be responsible for more than the original purchase price of the product.

