



MAINTENANCE OF ELECTRIC VEHICLES POWER





PROFESSIONAL PERFORMANCE WHY CHOOSE TOLSEN VDELIME?



TOLSEN VDELINE, founded in 2004, is a leading influencer in industries such as electrical insulation, new energy vehicle maintenance and telecom tool manufacture.

Through continuous research, development and quality management system, we have become one of the few manufacturers capable of supplying full series of VDE certificates in the world.

Our full range of diverse tools meet the needs of different workplaces. We can also manufacture according to your samples and drawings of any customization.



What is VDE?



The VDE Testing and Certification Institute is a nationally and internationally accredited institution in the field of testing and certification of electrical engineering devices, components and systems. These electrical products are tested for safety, electromagnetic compatibility and other product properties.



VDE-GS Mark

Technical working equipment and consumable materials subject to the applicable device and product safety laws bear the VDE-GS mark, which stands for the safety of the product with regard to electrical, mechanical, thermal, toxicological, radiological and other dangers. In addition, tools with the VDE-GS mark conform to the VDE regulations or European or internationally harmonised standards, i.e. they confirm the compliance with the safety requirements of the respective guidelines.



Double triangle and voltage range

If insulated tools or aids are marked with the symbol of the double triangle and the assigned voltage or voltage range specification or the class, they are suitable for working on energised parts at the stated voltage.

IEC 60900

IEC 60900

An international standard which, among other things, describes the design of insulated tools in detail. For example, the thickness of the protective insulation is specified. In addition, the standard defines individual tests (piece tests) as well as series and random sample tests for checking the electrical safety of the protective insulation.













WE PROVIDE FULL RANGE OF PROFESSIONAL TOOLS

















IMPACT TEST

There are two tests carried out: The first test is performed at an ambient of $-25\pm3^{\circ}$ C(the tools lay in a cold chamber for 2 hours), if with C marked test need to be done by $-40\pm3^{\circ}$ C and is carried out 120 seconds after the tools have been removed from the chamber. The second test is carried out at ambient temperature of $23\pm5^{\circ}$ C. The hammer is allowed to fall freely on three different places of the insulated material. The test piece is acceptable if the handle is not cracked, broken or does not show signs of faking. This test can be compared to a fall of the tool from a height of 0.6m at a temperature of -25° C and a fall from a height of 2m at room temperature.

ELECTRICAL TEST

Before testing, the tools are immersed in a bath of water at room temperature of 24 hours(±0.5hours) The test pieces are acceptable if there is no electrical discharge, spark over or flashover, during the 3 minutes of testing at a voltage of 10 KV.

STAMP TEST

The indenter, loaded with a weight of 20N and a voltage of 5 KV, is applied to the centre of the handle. The test is successful if the test piece subsequently passes the electrical test.

DRAWING-FORCE TEST

Before testing the test piece is heated to $70^{\circ}\text{C}\pm3^{\circ}\text{C}$ for 168 hours. The hanger is loaded with weights(500N), wrenches and sockets sets with weights(100N). The duration of test is 3 minutes after the test piece has been removed from heat. The test piece is acceptable if the handle remains firmly attached to the conducting part after 3 minutes of testing.

FLAME RETARDANCY TEST

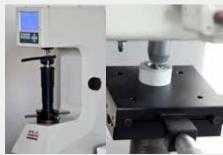
The flame is applied to the test piece for 10 seconds. The test piece is acceptable if the height of the flame on the burning handle does not exceed 120mm in an observation period of 20 seconds after the burner has been removed.

SALT-SPRAYER TEST

TORQUE LIFE TEST



HARDNESS TEST







INSULATED PLIERS 18-23



INSULATED SCREWDRIVERS **24-29**



INSULATED WRENCHES & SOCKETS **30-43**



SPECIAL SPECIFICATIONS
44-49



INSULATED ACCESSORIES **50-53**



TELECOM TOOLS **54-67**





INSULATED TOOL SET

Metal part made in CRV steel, chrome plated surface Well heat treated to meet DIN standard Bi-color injection grip and dipped grip manufactured according to IEC60900 standard





6 DRAWER ROLLER CABINET

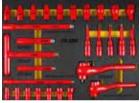
Overall size: 840x460x890mm
PP material work table with stainless steel handle
Fitted with two fixed & two braked swiveling castors
Drawers are fitted with XPE foam liner and ball bearing runners
secure integral locking system supplied with two keys



68PCS DIPPED INSULATED TOOL SET

V80168







V80168-01 Tray 01

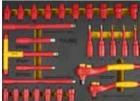
V80168-02 Tray 02



68PCS INJECTION INSULATED TOOL SET

V80169





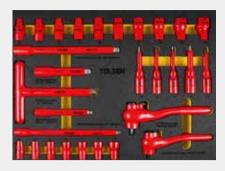


V80169-01 Tray 01

V80169-02 Tray 02



V80169-03 Tray 03



V80168-01 Tray 01

10 pcs DR 1/2" Socket: 10, 11, 12, 13, 14, 16, 17, 19, 22, 24 mm 2 pcs DR 1/2" Extension Bar: 5"(125mm) & 10"(250mm) 1 pc DR 1/2" T-handle: 8"(200mm) 5 pcs DR 1/2" Hexagonal Socket: 4, 5, 6, 8, 10 mm 1 pc DR 1/2" Reversible Ratchaet Handle 7 pcs DR 3/8" Socket: 10, 12, 13, 14, 16, 17, 18 mm 2 pcs DR 3/8" Extension Bar: 5"(125mm) & 10"(250mm) 1 pc DR 3/8" Reversible Ratchaet Handle



V80168-02 Tray 02

13 pcs Ring Wrench: 8, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24 mm 4 pcs Pliers: Combination Plier, 8"(200mm) Longnose Plier, 8"(200mm) Diagonal Cutting Plier, 7"(180mm) Wire Stripping Plier, 6"(160mm)



V80168-03 Tray 03

13 pcs, Open End Wrench: 8, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24 mm 1 pc Adjustable Wrench, 8"(200mm) 6 pcs Screwdrivers: SL 2.5x75mm, 4.0x100mm, 5.5x125mm, PH0x60mm, PH1x80mm, PH2x100mm 1 pc Voltage Tester: SL 3.0x70mm 1 pc Knife: 7"(180mm)



V80169-01 Tray 01

10 pcs 1/2" Socket: 10, 11, 12, 13, 14, 16, 17, 19, 22, 24 mm 2 pcs 1/2" Extension Bar: 5"(125mm) & 10"(250mm) 1 pc 1/2" T-handle: 6"(160mm) 5 pcs 1/2" Hexagonal Socket: 4, 5, 6, 8, 10 mm 1 pc 1/2" Reversible Ratchaet Handle 7 pcs 3/8" Socket: 10, 12, 13, 14, 16, 17, 18 mm 2 pcs 3/8" Extension Bar: 5"(125mm) & 10"(250mm) 1 pc 3/8" Reversible Ratchaet Handle



V80169-02 Tray 02

13 pcs, Ring Wrench: 8, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24 mm 4 pcs, Pliers: Combination Plier, 8"(200mm) Longnose Plier, 8"(200mm) Diagonal Cutting Plier, 7"(180mm) Wire Stripping Plier, 6"(160mm)



V80169-03 Tray 03

13 pcs, Open End Wrench: 8, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24 mm 1 pc Adjustable Wrench: 8"(200mm) 6 pcs Screwdrivers: SL 2.5x75mm, 4.0x100mm, 5.5x125mm, PH0x60mm, PH1x80mm, PH2x100mm 1 pc Voltage Tester: SL 3.0x70mm 1 pc Knife: 7"(180mm)

7 DRAWER ROLLER CABINET

Overall size: 765x465x976mm
PP material work table with TPR handle
Fitted with two fixed & two braked swiveling castors
Drawers are fitted with XPE foam liner and ball bearing runners
secure integral locking system supplied with two keys



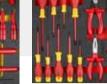


82PCS DIPPED INSULATED TOOL SET

V80183







V80183-01 Tray 01

V80183-02 Tray 02





V80183-03 Tray 03

V80183-04 Tray 04

82PCS INJECTION INSULATED TOOL SET

V80184

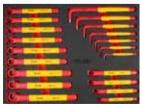






V80184-01 Tray 01

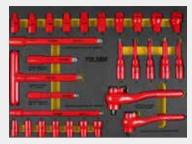
V80184-02 Tray 02





V80184-03 Tray 03

V80184-04 Tray 04



V80183-01 Tray 01

10 pcs DR 1/2" Socket: 10, 11, 12, 13, 14, 16, 17, 19, 22, 24 mm 2 pcs DR 1/2" Extension Bar: 5"[125mm] & 10"[250mm] 1 pc DR 1/2" T-handle: 8"[200mm] 5 pcs DR 1/2" Hexagonal Socket: 4, 5, 6, 8, 10 mm 1 pc DR 1/2" Reversible Ratchaet Handle 7 pcs DR 3/8" Socket: 10, 12, 13, 14, 16, 17, 18 mm 2 pcs DR 3/8" Extension Bar: 5"[125mm] & 10"[250mm]

1 pc DR 3/8" Reversible Ratchaet Handle



V80183-02 Tray 02

9 pcs Screwdrivers:

9 pcs Screwdrivers:
SL 2.5x75mm, 4.0x100mm, 5.5x125mm,
PH #0x60mm, #1x80mm, #2x100mm, PZ #0x60mm, #1x80mm, #2x100mm
6 pcs Pliers & Clamps: Combination Plier, 8"[200mm],
Longnose Plier, 8"[200mm]Diagonal Cutting Plier, 7"[180mm],
Wire Stripping Plier, 6"[160mm],
Plastic Clamp/Plier, 6"[150mm] & 8"[200mm]
1 pc Scissor: 6"[160mm]
1 pc Knife: 7"[180mm]

1 pc Electrical Tape, black



V80183-03 Tray 03

13 pcs, Ring Wrench: 8, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24 mm 7 pcs, Hexagon Key L-Wrench: 3, 4, 5, 6, 8, 10, 12 mm



V80183-04 Tray 04

13 pcs Open End Wrench: 8, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24 mm 1 pc Adjustable Wrench: 8"(200mm) 1 pc DR 1/2" Torque Wrench: 10-50 N.M

1 pc DR 3/8" Torque Wrench: 5-25 N.M



V80184-01 Tray 01

10 pcs 1/2" Socket: 10, 11, 12, 13, 14, 16, 17, 19, 22, 24 mm 2 pcs 1/2" Extension Bar: 5"(125mm) & 10"(250mm) 1 pc 1/2" T-handle: 6"(160mm) 5 pcs 1/2" Hexagonal Socket: 4, 5, 6, 8, 10 mm 1 pc 1/2" Reversible Ratchaet Handle 7 pcs 3/8" Socket: 10, 12, 13, 14, 16, 17, 18 mm 2 pcs 3/8" Extension Bar: 5"(125mm) & 10"(250mm)

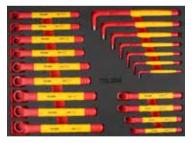
1 pc 3/8" Reversible Ratchaet Handle



V80184-02 Tray 02

9 pcs Screwdrivers:
SL 2.5x75mm, 4.0x100mm, 5.5x125mm,
PH #0x60mm, #1x80mm, #2x100mm, PZ #0x60mm, #1x80mm, #2x100mm
6 pcs Pliers & Clamps: Combination Plier, 8"(200mm),
Longnose Plier, 8"(200mm)Diagonal Cutting Plier, 7"(180mm),
Wire Stripping Plier, 6"(150mm),
Plastic Clamp/Plier, 6"(150mm) & 8"(200mm)
1 pc Scissor: 6"(160mm)
1 pc Knife: 7"(180mm)
1 pc Flortical Tane Mark

1 pc Electrical Tape, black



V80184-03 Tray 03

13 pcs, Ring Wrench: 8, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24 mm 7 pcs, Hexagon Key L-Wrench: 3, 4, 5, 6, 8, 10, 12 mm



V80184-04 Tray 04

13 pcs Open End Wrench: 8, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24 mm 1 pc Adjustable Wrench: 8"(200mm) 1 pc 1/2" Torque Wrench: 10-50 N.M

1 pc 3/8" Torque Wrench: 5-25 N.M



22"
WATER PROOF
CASE
1P67 CLASS



V81700

22"WATER PROOF CASE IP67 CLASS

V81852

A+B+C+D 52PCS INSULATED TOOLS SET WITH WATER PROOF CASE

V81945

A+B+D+F

45PCS INSULATED TOOLS SET WITH WATER PROOF CASE



A TRAY

V81946

6PCS INSULATED PLIERS

- 7" COMBINATION PLIERS
- 8" LONG NOSE PLIERS
- 6" DIAGONAL CUTTER
- 6" STRIPPING PLIERS 10" WATER PUMP PLIERS
- 6" CABLE CUTTER



V81947

B TRAY

11PCS SCREWDRIVER, KNIFE AND TESTER

PH0X60,PH1X80,PH2X100,PH3X150 2.5x75mm,3x100mm,4x100mm, 5.5x125mm,6.5x150mm. STRAIGHT KNIFE VOLTAGE TESTER



V81948

C TRAY

21PCS 1/2" SOCKETS AND ACCESSORY

SOCKETS: 10/11/12/13/14/16/ 17/18/19/21/22/24/27 SOCKETS BITS: 4,5,6,8MM EXTANSION BAR 5"&10" T HANDLE RATCHET HANDLE



D TRAY

V81949

14PCS OPEN WRENCHES AND ADJUSTABLE WRENCHES

OPEN WRENCH 8/10/11/12/13/14/15 /16/17/18/19/22/24 8" ADJUSTABLE WRENCH



E TRAY

V81950

20PCS 3/8" SOCKETS AND ACCESSORY

SOCKETS: 8/10/11/12/13/14/ 16/17/18/19/21/22 SOCKETS BITS: 4.5,6,8MM EXTANSION BAR 5"&10" THANDLE RATCHET HANDLE



FTRAY

14PCS NUTS AND PRECISION SCREWDRIVERS

NUT: 5/5.5/6/7/8/10/13 PRECISION: 3/PH0/T6/T8/T10/T15/T20



G TRAY

RAY V81952

14PCS RING WRENCHES AND HEX KEYS

RING WRENCH: 10/11/12/13/14/15/17/19 HEX KEY:3/4/5/6/8/10



H TRAY

V81953

4PCS SPECIAL TOOLS

240MM RATCHET CABLE CUTTER HACK SAW PLASTIC CLAMP*2

18PCS INSULATED TOOL SET





Item No.	Content	ĸ N
	Insulated dipped combination pliers	200
	Insulated dipped long nose pliers	160
	Insulated dipped diagonal cutting pliers	160
V83718	Insulated dipped wire stripping pliers	160
V03/10	3Pcs insulated slotted screwdrivers	0.4x2.5x75, 0.8x4.0x100, 1.0x5.5x125
	3Pcs insulated phillips screwdrivers	PH0x60, PH1x80, PH2x100
	5Pcs insulated open end spanners	10, 12, 14, 17, 19
	Voltage tester	3.0x70
	Cable knife	50x180
	Insulated adjustable wrench	250

25PCS INSULATED TOOL SET





Item No.	Content	⊬ mm →
	Insulated dipped combination pliers	180
	Insulated dipped long nose pliers	160
	Insulated dipped diagonal cutting pliers	160
V83825	2pcs insulated slotted screwdrivers	0.8x4.0x100, 1.0x5.5x125
V03023	2Pcs insulated phillips screwdrivers	PH1x80, PH2x100
	14pcs 1/2" insulated dipped sockets	10, 11, 12, 13, 14, 16, 17, 18, 19, 22, 24, 27, 30, 32
	insulated adjustable wrench	200
	2pcs insulated extension bars	1/2"x125, 1/2"x250
	insulated dipped reversible ratchet	1/2"x250

15PCS INJECTION INSULATED TOOL SET





Item No.	Content	k mm →
	Insulated Combination Plier	200
	Insulated Diagonal Plier	160
	Insulated Snipe Nose SideCutting Plier	200
	Insulated Wire Stripper	160
V82115	Insulated Cable Knife Straight	50x180
	Voltage Tester	3.0x70
	Insulated Screwdriver Slotted	2.5x75, 3.0x100, 4.0x100, 5.5x125, 6.5x150
	Phillips	PH0x60, PH1x80, PH2x100, PH3x150

20PCS INJECTION INSULATED TOOL SET





Item No.	Content	⊬ mm
V80320	12 PCS 3/8" Insulated Socket	8, 10 , 11, 12, 13, 14, 16, 17, 18, 19, 21, 22
	4PCS 3/8" Insulated Hexagon Socket	4*75, 5*75, 6*75, 8*75
	2PCS 3/8" Insulated Extension Bar	125,250
	3/8" Insulated T-handle Wrench	200
	3/8" Insulated Reversible Ratchet	200

29PCS INJECTION INSULATED TOOL SET





Item No.	Content	K ₩
	13PCS 1/2" Insulated Socket	10, 11, 12, 13, 14, 16, 17, 18, 19, 21, 22, 24, 27
	4PCS 1/2" Insulated Hexagon Socket	4x120, 5x120, 6x120, 8x120
	2PCS 1/2" InsulatedExtension Bar	125, 250
	1/2" Insulated T-handle Wrench	200
V80231	1/2" Insulated Reversible Ratchet	250
V00251	Insulated combination Plier	180
	Insulated Diagonal Plier	160
	Insulated Snipe Nose Side Cutting Plier	160
	Insulated Adjustable Wrench	200
	2PCS Insulated Screwdriver Slotted	4.0x100, 5.5x125
	2PCS Phillips	PH1x80, PH2x100

20PCS INJECTION INSULATED TOOL SET





Item No.	Content	∠ mm →
V80421	19 PCS Injection Insulated Open End Wrenches	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 24, 27, 30, 32
	Insulated Adjustable Wrench	250

22PCS INJECTION INSULATED TOOL SET





Item No.	Content	k_mm →
V81022	3/8" Insulated Reversible Ratchet Wrench	200
	3/8" Insulated Extension Bar	125
	3/8" Insulated Socket	8, 10, 12, 13, 14, 17, 19
	Insulated Screwdriver Slotted	3.5X100, 4.0X100, 5.5X125
	Insulated Screwdriver Phillips	PH1X80, PH2X100, PH3X150
	Insulated Open End Wrench	8, 10, 12, 13, 14, 17, 19

25PCS INSULATED TOOL SET





Item No.	Content	⊩ mm
	Dipped Insulated Combination Plier	200
	Dipped Insulated Diagonal Plier	160
	6PCS Insulated Screwdriver	PH: PH0x60, PH1x80, PH2x100 SL: 0.6X3.5X100, 0.8X4.0X100, 1.0X5.5X125
V80825	Insulated Cable Knife(Straight)	50x180
	Insulated Cable Knife(Semicircle)	28x155
	7PCS 1/2" Dipped Insulated Sockets	10, 11, 12, 13, 14, 17, 19
	7PCS Dipped Insulated Open End Wrench	10, 11, 12, 13, 14, 17, 19
	1/2" Dipped Insulated T-Handle	200

TOLSENVDELIME

20PCS DIPPED INSULATED TOOL SET





11PCS INJECTION INSULATED TOOL SET





Item No.	Content	K mm ≯
V80920	Dipped Insulated Open End Wrench	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27, 30, 32

21PCS INSULATED TOOL SET





Item No.	Content	K mm →
	5PCS Insulated Screwdriver	PH: PH1, PH2 3.0x100, 4.0x100, 5.5x125
	Insulated Combination Plier	200
V80110	Insulated long nose pliers	200
V80110	Insulated diagonal Cutting pliers	180
	Insulated cable Cutting pliers	160
	Water pump pliers	250
	Cable knife (straight)	180

30PCS INJECTION INSULATED TOOL SET





Item No.	Content	K mm →
	Dipped Insulated Combination Plier	200
	Dipped Insulated Diagonal Plier	160
	4PCS Insulated Screwdriver	PH: PH0x60 SL: 0.6x3.5x100, 0.8x4.0x100, 1.0x5.5x125
V80721	Insulated Cable Knif(Straight)	50x180
V8U/Z1	7PCS 1/2" Dipped Insulated Sockets	10, 11, 12, 13, 14, 17, 19
	4PCS 1/2" Dipped Insulated Hexagon Socket	4x120, 5x120, 6x120, 8x120
	2PCS 1/2" Dipped Insulated Extension Bar	125, 250
	1/2" Dipped Insulated Reversible Ratchet	250

ltem No.	Content	K mm →
	Insulated Combination Plier	200
	Insulated long nose pliers	200
	Insulated diagonal Cutting pliers	160
	Insulated Wire Stripper	160
V00120	7PCS Insulated Open End Wrench	10, 11, 12, 13, 14, 17, 19
V80130	8PCS 1/2" Insulated Socket	10, 11, 12, 13, 14, 16, 17, 19
	1/2" Insulated Extension Bar	125
	1/2" Insulated Reversible Ratchet	250
	9PCS Insulated Screwdriver	PH: PH1, PH2 H: H5, H6, H8, 2.5x75, 4.0x100, 5.5x125, 6.5x150

7 PCS INJECTION INSULATED TOOL SET





Item No.	Content	K ──→
	4pcs Insulated screwdriver	PH: PH1x80, PH2x10 0.5x3.0x100, 0.8x4.0x100
V80107	Insulated combination plier	200
	Insulated long nose pliers	160
	Insulated diagonal Cutting pliers	160

3PCS INSULATED PLIER SET





Item No.	Content	K mm →
	insulated combination pliers	180
V83103	insulated long nose pliers	160
	insulated diagonal cutting pliers	160

4PCS INSULATED PLIER SET





Item No.	Content	⊬ mm →
	insulated combination pliers	180
V83204	insulated long nose pliers	200
	insulated diagonal cutting pliers	160
	insulated wire stripping pliers	160

6PCS INSULATED TOOL SET





Item No.	Content	K mm →
	insulated combination pliers	180
	insulated diagonal cutting pliers	160
V83306	2pcs insulated slotted	0.4x2.5x75,
V033U0	screwdriver	0.8x4.0x100
	insulated phillips screwdriver	PH2x100
	voltage tester	3.0x70

11PCS INSULATED TOOL SET





Item No.	Content	⊬ mm →
	insulated combination pliers	180
	insulated long nose pliers	200
	insulated diagonal cutting pliers	160
	insulated wire stripping pliers	160
V83411	3pcs insulated slotted screwdriver	0.4x2.5x75, 0.8x4.0x100, 1.0x5.5x125
	2pcs insulated phillips	PH1x80,
	screwdriver voltage tester	PH2x100 3.0x70
	cable knife	50x180
	Cable kille	30x180

3 PCS INSULATED PLIER SET





Item No.	Content	⊬ mm →
	Insulated Injection Combination Plier	180
V81103	Insulated Injection Snip Nose Plier	200
	Insulated Injection Diagonal Plier	160

5 PCS INSULATED SCREWDRIVER SET





11 PCS INSULATED SOCKET SET





Item No.	Content	K mm →
V04005	Insulated Screwdriver Slotted	3.5X100, 4.0X100, 5.5X125
V81205	Insulated Screwdriver Phillips	PH1x80, PH2x100

Item No.	Content	K mm →
	3/8" Insulated T-Handle Wrench	200
V81611	3/8" Insulated Socket	8, 10, 11, 12, 13, 14
	3/8" Insulated Hexagon Socket	4x75, 5X75, 6X75, 8X75

7 PCS INSULATED WRENCH SET





11 PCS INSULATED SOCKET SET





Item No.	Content	k mm →
V81307	Insulated Injection Open End Wrench	8, 10, 12, 13, 14, 17, 19

Item No.	Content	 mm
V81511	3/8" Insulated T-Handle Wrench	200
V81311	3/8" Insulated Socket	8, 10, 11, 12, 13, 14, 16, 17, 18, 19

9 PCS INSULATED SOCKET SET





5PCS INSULATED RING GEAR WRENCH SET





Item No.	Content	∠ mm →
	3/8" Insulated Reversible Ratchet Handle	200
V81409	3/8" Insulated Extension Bar	125
	3/8" Insulated Socket	8, 10, 12, 13, 14, 17, 19

Item No.	Content	<mark>≪™</mark> →
V82005	Insulated Ring Gear Wrench	10, 12, 13, 14, 17

☆1000V

INSULATED **PLIERS**







Medium hard wire





Cu+Al multi-conductor cable, strand and multi-stranded



Metal part made in CRV steel

Pearl nickel plated surface

Precision machined body with strictly heat treatment

Manufactured according to IEC60900 standard

BI-COLOR INJECTION GRIP



INJECTION INSULATED **SNIPE NOSE PLIERS**



Item No.	k mm →	•	•
V16096	160	2	1.6
V16098	200	2.4	2

INJECTION INSULATED CURVED NOSE PLIERS



INJECTION INSULATED COMBINATION PLIERS

Item No.	K mm →	•	•
V16006	160	2.0	1.6
V16007	180	2.4	2.0
V16008	200	2.5	2.2

Item No.	ĸ mm →	•	•
V16026	160	2	1.6
V16028	200	2.4	2

INJECTION INSULATED

DIAGONAL PLIERS





Item No.	ĸ mm →	•	•	•
V16036	160	2.6	2.4	2

Item No.	K mm →	mm	mm²	
V16066	160	5.0	10.0	

INJECTION INSULATED

DIAGONAL PLIERS



Item No.	ĸ mm →		•	•
V16037	180	4	2.7	2.2

INJECTION INSULATED

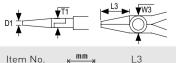


Item No.	k mm →	mm (Max)
V16070	250	28

INJECTION INSULATED

FLAT NOSE PLIERS

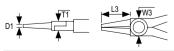




Item No.	K mm →	L3	W3	D1	T1
V16046	160	48	16	6.5	9

INJECTION INSULATED





Item No.	mm →	L3	W3	D1	T1
V16056	160	46	16	2.6	9

INJECTION INSULATED CABLE SHEARS

Item No.	k mm →	⊕ mm²
V11815	160	22

INJECTION INSULATED



Item No.	⊬ mm →	mm (Max)	mm² (Max)
V16082	250	22	150

INJECTION INSULATED



Item No.	K ™M	mm (Max)	mm² (Max)
V16080	160	8	16

INJECTION INSULATED

RATCHE CABLE CUTTERS PLIERS

For and on multi strand copper and aluminium cable.

Not suitable for steel wire and wire ropes.

Clean and smooth cut without crushing and deformation.

One-hand operation using ratchet principle.

Little handforce required due to very high transmission ratio.



Item No.	K——→	mm (Max)
V12024	240	32
V12038	380	52

INJECTION INSULATED

RATCHE CABLE CUTTERS PLIERS



For and on multi strand copper and aluminium cable.

Not suitable for steel wire and wire ropes.

Clean and smooth cut without crushing and deformation.

One-hand operation using ratchet principle.

Little handforce required due to very high transmission ratio.



Item No.	⊬ mm	mm (Max)
V16086	240	32

INJECTION INSULATED

CABLE CUTTER

For bruise free cutting of copper and aluminium cables.
Clean and smooth cut without crushing and deformation.



INJECTION INSULATED

BOLT CUTTER

Cutter head made of high quality special steel.

Precision ground, hardened blades.

Clean and smooth cut without crushing and deformation.

☆1000V

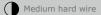




Item No.	k mm →	⊕ mm²
V11961	610	250
V11982	820	500

Item No.	k mm →	mm (Max)
V12224	24"	Cu +Al Φ20mm Fe Φ6mm







Cu+Al multi-conductor cable, strand and multi-stranded



☆1000V

Metal part made in CRV steel Pearl nickel plated surface

Precision machined body with strictly heat treatment

Manufactured according to IEC60900 standard

DIPPED GRIP

DIPPED INSULATED COMBINATION PLIERS

	Item No.	⊬ mm →	0	•
	V10116	160	2	1.6
Ξ	V10118	180	2.4	2
	V10120	200	2.5	2.2
Т				

DIPPED INSULATED CURVED NOSE PLIERS



Item No.	k mm →	•	•
V10516	160	2	1.6
V10520	200	2.4	2

DIPPED INSULATED DIAGONAL PLIERS



Item No.	⊬ mm →	•	•	•
V10716	160	2.6	2.4	2

DIPPED INSULATED SNIPE NOSE PLIERS

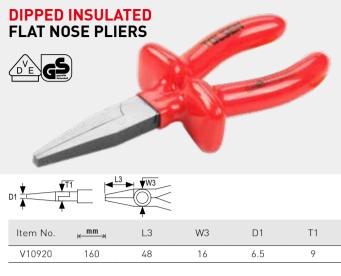


Item No.	k mm →	•	
V10316	160	2	1.6
V10320	200	2.4	2

DIPPED INSULATED DIAGONAL PLIERS

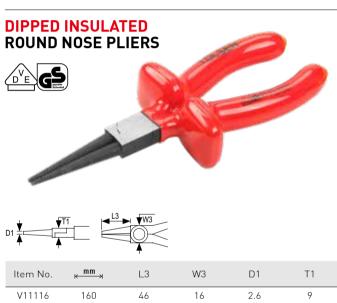


Item No.	k mm →	•	•	•
V10718	180	4	2.7	2.2





Item No.	⊬ mm →	mm (Max)
V11525	250	28
V11530	300	35





Item No.	ĸ mm →	mm (Max)	mm² (Max)
V11715	160	8	16

DIPPED INSULATED WIRE STRIPPERS



				,
Item No.	mm →	⊕ mm	mm²	
V11316	160	5.0	10.0	

DIPPED INSULATED CABLE SHEARS



Item No.	mm →	mm (Max)	mm² (Max)
V11725	250	22	150

☆1000V

INSULATED **SCREWDRIVERS**





Manufactured acc. to EN/IEC 60900. Each tool individually tested at 10,000 V AC and approved for 1,000 V AC. 3-component ergonomic handle design enables precise and fatigue-free working. S2-Chrome vanadium molybdenum steel.





INSULATED SCREWDRIVER WITH SLIM BLADE FOR PHILLIPS SCREWS



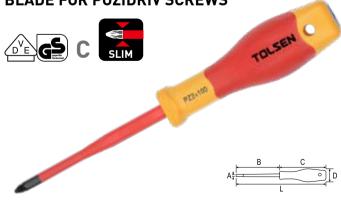
Item No.	0	А	В	CxD	L
V30501	PH1	5	80	105X30	185
V30502	PH2	6	100	115X35	215
V30503	PH3	8	150	118X41	268

$A^{\frac{1}{4}} \overbrace{\hspace{1cm}}^{B} \overbrace{\hspace{1cm}}^{C} \underbrace{\hspace{1cm}}^{D} D$

INSULATED SCREWDRIVER WITH SLIM BLADE FOR SLOTTED SCREWS

Item No.	\square	<u>,</u> 0	А	В	CxD	L
V30305	0.5	3.0	3.0	100	95x25	195
V30306	0.6	3.5	3.5	100	95x25	195
V30308	0.8	4.0	4.0	100	105x30	205
V30310	1.0	5.5	5.5	125	115x35	240
V30312	1.2	6.5	6.5	150	115x35	265

INSULATED SCREWDRIVER WITH SLIM BLADE FOR POZIDRIV SCREWS



Item No.	0	А	В	CxD	L
V30701	PZ1	5	80	105X30	185
V30702	PZ2	6	100	115X35	215
V30703	PZ3	8	150	118X41	268

VDE SLOTTED SCREWDRIVER



Item No.	\square	<u>,</u> 0	А	В	CxD	L
V30204	0.4	2.5	2.5	75	95x25	170
V30205	0.5	3	3	100	95x25	195
V30206	0.6	3.5	3.5	100	95x25	195
V30208	0.8	4	4	100	105x30	205
V30210	1	5.5	5.5	125	115x35	240
V30212	1.2	6.5	6.5	150	115x35	265

Item No.	0	А	В	CxD	L
V31025	2.5	2.5	75	95X25	170
V31003	3	3	75	95X25	170
V31004	4	4	75	105X30	180
V31005	5	5	75	105X30	180
V31006	6	6	100	115X35	215
V31008	8	8	100	118X41	218

VDE PHILLIPS SCREWDRIVER



	Item No.	0	А	В	CxD	L
	V30400	PH0	3	60	95X25	155
Т	V30401	PH1	5	80	105X30	185
Ξ	V30402	PH2	6	100	115X35	215
Ξ	V30403	PH3	8	150	118X41	268

INSULATED ADAPTER FOR 1/4" SOCKET

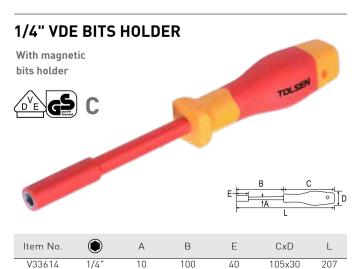
For use with 1/4" Sockets.



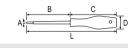
Item No.		А
V33414	1/4"	75



Item No.	0	А	В	CxD	L
V30600	PZ0	3	60	95X25	155
V30601	PZ1	5	80	105X30	185
V30602	PZ2	6	100	115X35	215
V30603	PZ3	8	150	118X41	268





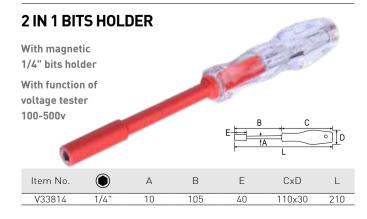


Item No.	0	Α	В	CxD	L
V30810	T10	3	70	95X25	165
V30815	T15	4	80	105X30	185
V30820	T20	4	100	105X30	205
V30825	T25	5	125	115X35	230
V30830	T30	6	130	115X35	245

VDE NUT SCREWDRIVER



Item No.		А	В	Е	CxD	L
V31204	4	7.2	125	31	105x30	230
V31205	5	7.2	125	31	105x30	230
V31255	5.5	7.2	125	31	105x30	230
V31206	6	7.2	125	31	105x30	230
V31207	7	7.2	125	31	105x30	230
V31208	8	7.2	125	31	105x30	230
V31209	9	7.2	125	31	105x30	230
V31210	10	7.2	125	31	105x30	230
V31211	11	8.1	125	31	118x41	240
V31212	12	8.1	125	31	118x41	243
V31213	13	8.1	125	31	118x41	243
V31214	14	8.1	125	31	118x41	243



INSULATED SCREWDRIVER FOR HEXAGON SOCKET SCREWS WITH T-HANDLE



Item No.	0	А	Н	L
V40825	2.5	5	80x26	150
V40803	3	5.5	80x26	150
V40804	4	7	80x26	150
V40805	5	8	100x34	150
V40806	6	9	100x34	150
V40808	8	11	115x40	150

INSULATED NUT DRIVER WITH T-HANDLE



Item No.		А	В	Н	L
V31904	4	7.1	25	100x34	130
V31905	5	7.1	25	100x34	130
V31955	5.5	7.1	25	100x34	130
V31906	6	7.1	25	100x34	130
V31907	7	7.1	25	100x34	130
V31908	8	7.1	25	100x34	130
V31909	9	7.1	25	100x34	130
V31910	10	7.1	25	100x34	130
V31911	11	8.1	25	100x34	130
V31912	12	8.1	25	100x34	130
V31913	13	8.1	25	100x34	130
V31914	14	8.1	25	100x34	130



Item No.	Σ	Ð	А	В	CxD	L
V31415	0.23	1.5	1.5	50	95x18	145
V31418	0.3	1.8	2	50	95x18	145
V31420	0.4	2	2	50	95x18	145
V31425	0.4	2.5	2.5	50	95x18	145
V31430	0.5	3	3	50	95x18	145



	Item No.	0	А	В	CxD	L
	V31806	Т6	2.5	50	95x18	145
	V31808	Т8	2.5	50	95x18	145
	V31810	T10	3	50	95x18	145
	V31815	T15	4	50	95x18	145
ĺ	V31820	T20	4	50	95x18	145

VDE PRECISION PHILLIPS SCREWDRIVER



Item No.	0	А	В	CxD	L
V31600	PH00	2.5	50	95x18	145
V31601	PH0	3	50	95x18	145
V31602	PH1	3	50	95x18	145

7PCS INSULATED PRECISION SCREWDRIVER SET



Item No.	Content
V32207	Slotted: 0.5x3.0x50 Phillips: PH0x50 TX: T6x50 T8x50 T10x50 T15x50 T20x50

7PCS INSULATED PRECISION SCREWDRIVER SET





Item No.	Content
V32007	Slotted: 0.23x1.5x50 0.3x1.8x50 0.4x2.0x50



8PCS INSULATED SCREWDRIVER SET



6PCS INSULATED SCREWDRIVER SET





Item No.	Content
V32408	Slotted: 0.4x2.5x75, 0.8x4.0x100, 1.0x5.5x125, 1.2x6.5x150 Phillips: PH0x60, PH1x80, PH2x100 Voltage Tester: 3.0x70

Item No.	Content
V33006	Nut: 5.5x125 6.0x125 8.0x125 10.0x125 11.0x125 12.0x125

7PCS INSULATED SCREWDRIVER SET







6PCS INSULATED SCREWDRIVER SET





Item No.	Content
V32607	Slotted: 0.5x3.0x100, 0.8x4.0x100, 1.0x5.5x125, 1.2x6.5x150 Phillips: PH1x80, PH2x100 Voltage Tester: 3.0x70

Item No.	Content
V33506	Slotted: 0.4x2.5x75, 0.8x4.0x100, 1.0x5.5x125 Phillips: PH1x80, PH2x100 Voltage Tester: 3.0x70

50PCS INSULATED CHANGABLE SCREWDRIVER 12PCS INSULATED CHANGABLE SCREWDRIVER



SET





Item No.	Content
V33450	0.4x2.0x100 0.4x2.5x100 0.5x3.0x100 0.6x3.5x100 0.8x4.0x100 1.0x5.5x100 1.2x6.5x100 PH0x100 PH1x100 PH2x100 PZ0x100 PZ1x100 PZ2x100 TZ0x100 TZ

Slotted: 0.4x2.0x100 0.4x2.5x100 0.5x3.0x100	Item No.	Content
Handle: 31X1U3	V33212	0.6x3.5x100

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INSULATED WRENCHES & SOCKETS

Metal part made in crv steel Chrome plated surface

Well heat treated to meet DIN standard

Manufactured according to IEC60900 standard





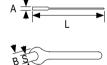


DIPPED

MULTILAYER







Multilayer dipped Item No.	Dipped Item No.	S	А	В	L
V40106	V40106S	- 6	7.5	18	90
V40107	V40107S	7	7.5	20	90
V40108	V40108S	8	8	22	100
V40109	V40109S	9	9	24	100
V40110	V40110S	10	9	26	105
V40111	V40111S	11	9.5	29	110
V40112	V40112S	12	10	32	125
V40113	V40113S	13	10	33	135
V40114	V40114S	14	11	35	140
V40115	V40115S	15	11	38	150
V40116	V40116S	16	12	40	160
V40117	V40117S	17	12	42	160
V40118	V40118S	18	12	44	165
V40119	V40119S	19	13	45	170
V40120	V40120S	20	12	45	185
V40121	V40121S	21	14	48	188
V40122	V40122S	22	14	52	200
V40124	V40124S	24	15	55	225
V40127	V40127S	27	16	62	255
V40130	V40130S	30	16	62	295
V40132	V40132S	32	17	70	315

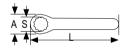












Multilayer dipped Item No.	Dipped Item No.	S	А	L
V42707	V42707S	7	25	135
V42708	V42708S	8	26.5	140
V42709	V42709S	9	27.5	145
V42710	V42710S	10	29.5	150
V42711	V42711S	11	32	160
V42712	V42712S	12	34.5	165
V42713	V42713S	13	34.5	170
V42714	V42714S	14	37.5	180
V42715	V42715S	15	38	190
V42716	V42716S	16	38.5	220
V42717	V42717S	17	38	180
V42718	V42718S	18	39	190
V42719	V42719S	19	40	200
V42722	V42722S	22	47	230
V42724	V42724S	24	52.5	260

TOLSENVDELIME

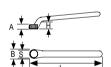
DIPPED INSULATED RING WRENCH











Multilayer dipped Item No.	Dipped Item No.	S	А	В	L
V40306	V40306S	6	8	17	140
V40307	V40307S	7	10.5	17	150
V40308	V40308S	8	12	19	155
V40309	V40309S	9	12	20.5	160
V40310	V40310S	10	12	20.5	165
V40311	V40311S	11	12	23	175
V40312	V40312S	12	12	24	185
V40313	V40313S	13	13	26	190
V40314	V40314S	14	13	27	200
V40315	V40315S	15	13	29	205
V40316	V40316S	16	14	30	205
V40317	V40317S	17	14.5	32	210
V40318	V40318S	18	14.5	33	220
V40319	V40319S	19	14.5	35	230
V40320	V40320S	20	16	36	228
V40321	V40321S	21	16	38	240
V40322	V40322S	22	16	40	250
V40324	V40324S	24	16	42	270
V40327	V40327S	27	16.5	46.5	285
V40330	V40330S	30	17	50	310
V40332	V40332S	32	18	52	310

DIPPED INSULATED GEAR SOCKET WRENCH GEAR REVERSIBLE TWO SIZES IN ONE **☆1000V**



DIPPED

Multilayer dipped Item No.	Dipped Item No.	Size / mm
V42501	V42501S	13 X 17
V42502	V42502S	17 X 19
V42519	V42519S	19 X 24

DIPPED INSULATED ADJUSTABLE WRENCH

PRECISION MACHINED BODY WITH STRICTLY HEAT TREATMENT



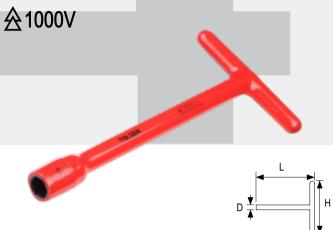




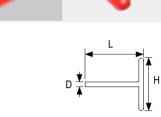


Multilayer dipped Item No.	Dipped Item No.	K	S (Max)
V40520	V40520S	200	30
V40525	V40525S	250	36
V40530	V40530S	300	40

DIPPED INSULATED SOCKET WRENCH



DIPPED INSULATI TORX SCREWS	ED WRENCH FOR
☆ 1000V	



Item No.		D	L	Н
V40908	8	15	200	145
V40910	10	19	200	145
V40912	12	22.5	200	145
V40913	13	23.5	200	145
V40914	14	24.5	200	145
V40916	16	26.5	200	145
V40917	17	28.5	200	145
V40918	18	30.5	200	145
V40919	19	31.5	200	145
V40920	10	19.5	300	145
V40922	12	22	300	145
V40923	13	23.5	300	145
V40924	14	24.5	300	145
V40926	16	27	300	145
V40927	17	28.5	300	145
V40928	18	29.5	300	145
V40929	19	31	300	145

Item No.	0	K ──── >
V42530	T10	130
V42531	T15	140
V42532	T20	140
V42533	T25	160
V42534	T27	160
V42535	T30	180
V42536	T40	200
V42537	T45	200
V42538	T50	210
V42539	T55	235

DIPPED INSULATED HEXAGON KEY L-WRENCH

FOR HEXAGON SCREWS



Item No.	\bigcirc I	k mm →
V42503	3	130
V42504	4	140
V42505	5	160
V42506	6	180
V42508	8	210
V42510	10	240
V42512	12	250

DIPPED INSULATED HEXAGON KEY L-WRENCH

FOR HEXAGON SCREWS





Item No.		K −−−− ×
V42812	1/2"	270



Multilayer dipped Item No.	Dipped Item No.		Н	L
V41112	V41112S	1/2"	155	205
V41138	V41138S	3/8"	155	205

DIPPED INSULATED REVERSIBLE RATCHET HANDLE 1/2" 3/8"

VDE GS PENDING







Multilayer dipped Item No.	Dipped Item No.		⊬ mm →
V42112	V42112S	1/2"	250
V42138	V42138S	3/8"	200
-			

DIPPED INSULATED EXTENSION BAR 1/2" 3/8" 1/4" \$\times 1000V MULTILAYER DIPPED DIPPED DIPPED DIPPED

Multilayer dipped Item No.	Dipped Item No.		k mm →
V42301	V42301S	1/2"	125
V42302	V42302S	1/2"	250
V42303	V42303S	3/8"	125
V42304	V42304S	3/8"	250
V42305	V42305S	1/4"	75
V42306	V42306S	1/4"	150

DIPPED INSULATED CROSS RIM WRENCH



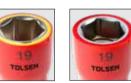
Multilayer dipped Item No.	Dipped Item No.		D	L1	L
		13	24.3	94	230
V42904	V42904S	14	27.3	94	230
V427U4	V427043	17	29.4	94	230
		19	31	94	230

DIPPED INSULATED SOCKET 1/2" ☆ 1000V

DIPPED INSULATED DEEP SOCKET 1/2" ★1000V























Multilayer dipped Item No.	Dipped Item No.		D	Н
V41310	V41310S	10	19.7	54
V41311	V41311S	11	21.0	54
V41312	V41312S	12	22.1	54
V41313	V41313S	13	23.3	54
V41314	V41314S	14	24.7	54
V41316	V41316S	16	27.4	54
V41317	V41317S	17	28.1	54
V41318	V41318S	18	29.7	54
V41319	V41319S	19	30.0	54
V41321	V41321S	21	32.0	54
V41322	V41322S	22	34.0	54
V41324	V41324S	24	36.3	54
V41327	V41327S	27	41.0	58
V41330	V41330S	30	44.1	59
V41332	V41332S	32	46.1	59

Multilayer dipped Item No.	Dipped Item No.		D	Н
V41340	V41340S	8	18	94
V41341	V41341S	9	19	94
V41342	V41342S	10	21	94
V41343	V41343S	11	22	94
V41344	V41344S	12	23	94
V41345	V41345S	13	24	94
V41346	V41346S	14	26	94
V41347	V41347S	15	27	94
V41348	V41348S	16	27	94
V41349	V41349S	17	29	94
V41350	V41350S	18	30.5	94
V41351	V41351S	19	31	94
V41352	V41352S	20	33	94
V41353	V41353S	21	33	94
V41354	V41354S	22	35	94
V41355	V41355S	23		94
V41356	V41356S	24	37	94
V41359	V41359S	27	41	94
V41362	V41362S	30	45	94
V41364	V41364S	32	47	94

DIPPED INSULATED HEXAGON SOCKET WITH DOUBLE-HEX 1/2"

MULTILAYER DIPPED









	-	–H –	-
Ď V			

Multilayer dipped Item No.	Dipped Item No.		D	Н	
V41371	V41371S	8	18	59	
V41372	V41372S	9	19	59	
V41373	V41373S	10	21	59	
V41374	V41374S	11	22	59	
V41375	V41375S	12	23	59	
V41376	V41376S	13	24	59	
V41377	V41377S	14	26	59	
V41378	V41378S	15	27	59	
V41379	V41379S	16	27	59	
V41380	V41380S	17	29	59	
V41381	V41381S	18	30.5	59	
V41382	V41382S	19	31	59	
V41383	V41383S	20	33	59	
V41384	V41384S	21	33	59	
V41385	V41385S	22	35	59	
V41386	V41386S	24	37	59	
V41387	V41387S	27	41	59	
V41388	V41388S	30	45	59	
V41389	V41389S	32	47	59	

☆1000V

DIPPED INSULATED HEXAGON SOCKET WITH DOUBLE-HEX, LONG VERSION 1/2"

MULTILAYER





DIPPED



Multilayer dipped Item No.	Dipped Item No.		D	Н
V41391	V41391S	10	21	94
V41392	V41392S	12	23	94
V41393	V41393S	13	24	94
V41394	V41394S	14	26	94
V41395	V41395S	17	29	94
V41396	V41396S	19	31	94

☆1000V

DIPPED INSULATED HEXAGONAL SOCKET 1/2" ☆1000V



Multilayer dipped V41704

V41705

V41706

V41708 V41710









Dipped Item No.	0	k mm →
V41704S	4	120
V41705S	5	120
V41706S	6	120
V41708S	8	120

10

TOLSEN

120

DIPPED INSULATED BIT SOCKET FOR TORX SCREWS 1/2"

V41710S

☆1000V





TOLSEN









Multilayer dipped Item No.	Dipped Item No.	0	k mm →
V41731	V41731S	T10	120
V41732	V41732S	T15	120
V41733	V41733S	T20	120
V41734	V41734S	T25	120
V41735	V41735S	T27	120
V41736	V41736S	T30	120
V41737	V41737S	T40	120
V41738	V41738S	T45	120
V41739	V41739S	T50	120
V41740	V41740S	T55	120

DIPPED INSULATED

SOCKET 3/8"

☆1000V

DIPPED INSULATED DEEP SOCKET 3/8" ☆1000V















MULTILAYER DIPPED









Multilayer dipped Item No.	Dipped Item No.		D	Н
V41525	V41525S	8	16.3	80
V41526	V41526S	9	18.9	80
V41527	V41527S	10	20.1	80
V41528	V41528S	11	23.0	80
V41529	V41529S	12	23.1	80
V41530	V41530S	13	23.9	80
V41531	V41531S	14	26.3	80
V41532	V41532S	15	27.7	80
V41533	V41533S	16	29.0	80
V41534	V41534S	17	30.3	80
V41535	V41535S	18	32.0	80
V41536	V41536S	19	34.0	80

DIPPED INSULATED HEXAGONAL SOCKET 3/8"

☆1000V



Multilayer dipped Item No.	Dipped Item No.		D	Н
V41508	V41508S	8	16.3	44
V41510	V41510S	10	18.9	44
V41511	V41511S	11	20.1	44
V41512	V41512S	12	23.0	44
V41513	V41513S	13	23.1	44
V41514	V41514S	14	23.9	44
V41516	V41516S	16	26.3	44
V41517	V41517S	17	27.7	44
V41518	V41518S	18	29.0	46
V41519	V41519S	19	30.3	46
V41521	V41521S	21	32.0	46
V41522	V41522S	22	34.0	46

MULTILAYER DIPPED





Multilayer dipped

Item No.

V41904

V41905

V41906

V41908



DIPPED

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100			ğ.	
100	_		9	

Dipped

Item No.

V41904S

V41905S

V41906S

V41908S



75

8

DIPPED INSULATED SOCKET 1/4"

☆1000V

MULTILAYER DIPPED









Multilayer dipped Item No.	Dipped Item No.		D	Н
V41570	V41570S	4	9.8	42
V41571	V41571S	5	11.2	42
V41572	V41572S	5.5	11.7	42
V41573	V41573S	6	12.2	42
V41574	V41574S	7	14	42
V41575	V41575S	8	15	42
V41576	V41576S	9	16	42
V41577	V41577S	10	17.5	42
V41578	V41578S	11	19	42
V41579	V41579S	12	19.5	42
V41580	V41580S	13	20.8	42
V41581	V41581S	14	22.8	42

MULTILAYER

☆1000V





DIPPED INSULATED





BIT SOCKET FOR HEXAGON SCREWS 1/4"



Multilayer dipped Item No.	Dipped Item No.	0	k mm →
V41961	V41961S	3	66
V41962	V41962S	4	66
V41963	V41963S	5	66
V41964	V41964S	6	66
V41965	V41965S	8	66

DIPPED INSULATED

HEXAGON SOCKET, LONG VERSION 1/4"

☆1000V

MULTILAYER **DIPPED**







Dipped	
V413825	4
V41583S	5
V41584S	6
V41585S	7
	Item No. V41582S V41583S V41584S

Multilayer dipped Item No.	Dipped Item No.		D	Н
V41582	V41582S	4	12	67
V41583	V41583S	5	13	67
V41584	V41584S	6	14	67
V41585	V41585S	7	16	67
V41586	V41586S	8	18	67
V41587	V41587S	9	18	67
V41588	V41588S	10	19	67
V41589	V41589S	11	21	67
V41590	V41590S	12	22	67
V41591	V41591S	13	23	67

DIPPED INSULATED

BIT SOCKET FOR TORX SCREWS 1/4"

☆1000V

MULTILAYER DIPPED



TOLSEN









Multilayer dipped Item No.	Dipped Item No.	0	⊬ mm
V41966	V41966S	T10	66
V41967	V41967S	T15	66
V41968	V41968S	T20	66
V41969	V41969S	T25	66
V41970	V41970S	T27	66
V41971	V41971S	T30	66
V41972	V41972S	T40	66

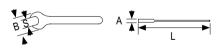
INJECTION INSULATED

OPEN END WRENCH









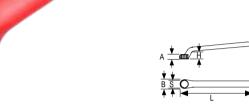
Item No.	S	А	В	L
V40206	6	7	22	90
V40207	7	7	24	90
V40208	8	7.5	25.5	100
V40209	9	7.5	27.5	100
V40210	10	8	29	110
V40211	11	8.5	31	110
V40212	12	8.5	33	130
V40213	13	10.5	34	135
V40214	14	10.5	37	145
V40215	15	11.5	40	150
V40216	16	11.5	42	160
V40217	17	12	44	160
V40218	18	12	44.5	175
V40219	19	12.5	48	175
V40221	21	12.5	51	195
V40222	22	13	54	195
V40224	24	13.5	56	225
V40227	27	14.5	61	250
V40230	30	14.8	66	290
V40232	32	15.8	70	310

INJECTION INSULATED

RING WRENCH







Item No.	S	А	В	L
V40406	6	7	16	150
V40407	7	7	17	150
V40408	8	7.5	18	155
V40409	9	8.5	19	155
V40410	10	8.5	21	165
V40411	11	8.5	22.5	170
V40412	12	9.5	22.5	185
V40413	13	10	26	190
V40414	14	11	26	205
V40415	15	11	27	205
V40416	16	12	30	215
V40417	17	12	30.5	215
V40418	18	13	32	230
V40419	19	13	33.5	230
V40421	21	14	37.5	245
V40422	22	14	37.5	245
V40424	24	16	39	265
V40427	27	16	44	285
V40430	30	16.5	48	300
V40432	32	17.5	51	305

INJECTION INSULATED ADJUSTABLE WRENCH



Item No.	ĸ──────────	S (Max)	
V40616	160	19	
V40620	200	30	
V40625	250	36	
V40630	300	40	

TOLSENVDELIME

INJECTION INSULATED RATCHET RING SPANNER 72 teeth TOLSEN D'E C

Item No.	S	А	L
V42807	7	22	120
V42808	8	22	120
V42809	9	24	125
V42810	10	26	135
V42811	11	28	140
V42812	12	29	145
V42813	13	31	150
V42814	14	33	160
V42815	15	34	165
V42816	16	36	170
V42817	17	38	180
V42818	18	39	190
V42819	19	40	200
V42822	22	47	230
V42824	24	52.5	260

INJECTION INSULATE **HEXAGON KEY L-WRENCH**





Item No.	\bigcirc I	mm →
V42603	3	130
V42604	4	140
V42605	5	160
V42606	6	180
V42608	8	200
V42610	10	235
V42612	12	250

INJECTION INSULATED

L WRENCH FOR TORX SCREWS



Item No.	0	k mm
V42620	T10	130
V42621	T15	140
V42622	T20	140
V42623	T25	160
V42624	T27	160
V42625	T30	180
V42626	T40	200
V42627	T45	200
V42628	T50	210
V42629	T55	235

INJECTION INSULATED T-HANDLE





Item No.		Н	L
V41212	1/2"	160	205
V41238	3/8"	160	205

INJECTION INSULATED

TORQUE WRENCH







- Ratchet Head: Chromiumvanadium alloy steel brings better strength and life cycle.
- 2. 90 Teeth Ratchet.
 3. Accuracy of torque +/-4%; quality meets DIN ISO 6789.
 4. Each piece stamping ID number for traceability.

Unique quick precision adjustment hole design eliminates the need to damage the insulating layer of the product.

Window Display: Easy readable scale below a window



Item No		N.m
V43001	1/4"DR	1-5
V43002	1/4"DR	2-10
V43003	1/4"DR	5-25
V43011	3/8"DR	1-5
V43012	3/8"DR	2-10
V43013	3/8"DR	5-25
V43015	3/8"DR	10-50
V43017	3/8"DR	20-100
V43022	1/2"DR	10-50
V43023	1/2"DR	20-100
V43024	1/2"DR	40-200

INJECTION INSULATED

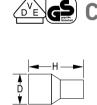
REVERSIBLE RATCHET WRENCH 3/8"



Item No.		к mm →
V42212	1/2"	250
V42238	3/8"	200
V42214	1/4"	145

INJECTION INSULATED

2-COMPONENT HEXAGON SOCKET 1/2"





Item No.		D	Н
V41408	8	18	59
V41409	9	19	59
V41410	10	21	59
V41411	11	22	59
V41412	12	23	59
V41413	13	24	59
V41414	14	26	59
V41415	15	27	59
V41416	16	27	59
V41417	17	29	59
V41418	18	30.5	59
V41419	19	31	59
V41420	20	33	59
V41421	21	33	59
V41422	22	35	59
V41424	24	37	59
V41427	27	41	59
V41430	30	45	59
V41432	32	47	59

INJECTION INSULATED

INSULATED 2-COMPONENT HEXAGON SOCKET WITH DOUBLE-HEX, LONG **VERSION 1/2"**







Item No.		D	Н
V41470	10	21	94
V41472	12	23	94
V41473	13m	24	94
V41474	14	26	94
V41477	17	29	94
V41479	19	31	94

INJECTION INSULATED

2-COMPONENT BIT SOCKET FOR HEXAGON **SCREWS 1/2"**







Item No.	0	K mm →
V41804	4	120
V41805	5	120
V41806	6	120
V41808	8	120
V41810	10	120

INJECTION INSULATED 2-COMPONENT BIT SOCKET FOR TORX SCREWS, 1/2"





Item No.	0	ĸ mm →
V41821	T10	120
V41822	T15	120
V41823	T20	120
V41824	T25	120
V41825	T27	120
V41826	T30	120
V41827	T40	120
V41828	T45	120
V41829	T50	120
V41830	T55	120

INJECTION INSULATED

EXTENSION BAR 1/2"





Item No.		K mm →
V42401	1/2"	125
V42402	1/2"	250

INJECTION INSULATED

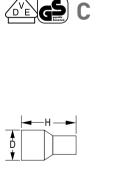
2-COMPONENT HEXAGON SOCKET 3/8"



Item No.		D	Н
V41606	6	14.5	45
V41607	7	16	45
V41608	8	17	45
V41609	9	18	45
V41610	10	20	45
V41611	11	21	45
V41612	12	23	45
V41613	13	23.5	45
V41614	14	25	45
V41615	15	26	45
V41616	16	27	45
V41617	17	28.5	45
V41618	18	30	45
V41619	19	31	47
V41620	20	33	47
V41621	21	33	47
V41622	22	35	47

INJECTION INSULATED

2-COMPONENT HEXAGON SOCKET WITH DOUBLE-HEX, LONG VERSION 3/8"





Item No.		D	Н
V41638	8	17	80
V41640	10	20	80
V41642	12	22	80
V41644	14	25	80
V41645	15	26	80
V41647	17	28.5	80
V41649	19	31	80
V41652	22	35	80

INJECTION INSULATED

2-COMPONENT BIT SOCKET FOR HEXAGON SCREWS 3/8"







Item No.	0	⊬ mm →
V42004	4	75
V42005	5	75
V42006	6	75
V42008	8	75
V42010	10	75

INJECTION INSULATED

2-COMPONENT BIT SOCKET FOR TORX SCREWS 3/8"







Item No.	0	ĸ mm א
V42041	T10	75
V42042	T15	75
V42043	T20	75
V42044	T25	75
V42045	T27	75
V42046	T30	75
V42047	T40	75
V42048	T45	75
V42049	T50	75
V42050	T55	75

INJECTION INSULATED 2-COMPONENT

EXTENSION BAR 3/8"



Item No.		K mm →
V42403	3/8"	125
V42404	3/8"	250

INJECTION INSULATED

2-COMPONENT **HEXAGON SOCKET 1/4"**



Item No.		D	Н
V41004	4	12	42
V41005	5	13	42
V41055	5.5	13.5	42
V41006	6	14	42
V41007	7	16	42
V41008	8	18	42
V41009	9	18	42
V41010	10	19	42
V41011	11	21	42
V41012	12	21.5	42
V41013	13	23	42
V41014	14	24.5	42

INJECTION INSULATED 2-COMPONENT HEXAGON SOCKET, LONG VERSION 1/4"



Item No.		D	Н
V41024	4	12	67
V41025	5	13	67
V41026	6	14	67
V41027	7	16	67
V41028	8	18	67
V41029	9	18	67
V41030	10	19	67
V41031	11	21	67
V41032	12	22	67
V41033	13	23	67

INJECTION INSULATED

2-COMPONENT **BIT SOCKET FOR HEXAGON SCREWS** 1/4"





Item No.	0	K mm →
V42061	3	66
V42062	4	66
V42063	5	66
V42064	6	66
V42065	8	66

INJECTION INSULATED

2-COMPONENT **BIT SOCKET FOR TORX SCREWS** 1/4"







Item No.	0	K MM →
V42071	T10	66
V42072	T15	66
V42073	T20	66
V42074	T25	66
V42075	T27	66
V42076	T30	66
V42077	T40	66

INJECTION INSULATED

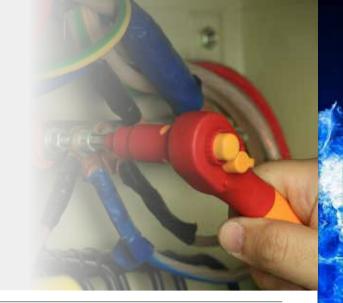
2-COMPONENT EXTENSION BAR 1/4"



Item No.		K mm →
V42405	1/4"	75
V42406	1/4"	150

☆1000V

SPECIAL SPECIFICATIONS



DIPPED INSULATED

BIT SOCKET FOR HEXAGON SCREWS, **LONG VERSION 1/2"**

DIPPED



MULTILAYER DIPPED







lMultilayer dipped Item No.	Dipped Item No.	0	K mm →
V41721	V41721S	4	157
V41722	V41722S	5	157
V41723	V41723S	6	157
V41724	V41724S	8	157
V41725	V41725S	10	157

DIPPED INSULATED

BIT SOCKET FOR TORX SCREWS LONG VERSION 1/2"



MULTILAYER DIPPED





Multilayer dipped Item No.	Dipped Item No.	0	mm →
V41741	V41741S	T10	157
V41742	V41742S	T15	157
V41743	V41743S	T20	157
V41744	V41744S	T25	157
V41745	V41745S	T27	157
V41746	V41746S	T30	157
V41747	V41747S	T40	157
V41748	V41748S	T45	157
V41749	V41749S	T50	157
V41750	V41750S	T55	157

DIPPED INSULATED

BIT SOCKET WITH DOUBLE-HEX 1/2"

☆1000V







Multilayer dipped Item No.

V41751

V41752

V41753

V41761





Dipped Item No.	0	K mm →
V41751S	M6	120
V41752S	M8	120

M10

M12

DIPPED INSULATED

BIT SOCKET WITH DOUBLE-HEX. **LONG VERSION 1/2"**

V41753S

V41761S

☆1000V

MULTILAYER DIPPED







Multilayer dipped

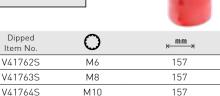
Item No.

V41762

V41763

V41764







120

120



DIPPED INSULATED

HEXAGON SOCKET WITH DOUBLE-HEX 3/8"

☆1000V

MULTILAYER DIPPED













М	ultilayer dipped Item No.	Dipped Item No.		D	Н
	V41540	V41540S	6	14.5	45
	V41541	V41541S	7	16	45
	V41542	V41542S	8	17	45
	V41543	V41543S	9	18	45
	V41544	V41544S	10	20	45
	V41545	V41545S	11	21	45
	V41546	V41546S	12	23	45
	V41547	V41547S	13	23.5	45
	V41548	V41548S	14	25	45
	V41549	V41549S	15	26	45
	V41550	V41550S	16	27	45
	V41551	V41551S	17	28.5	45
	V41552	V41552S	18	30	45
	V41553	V41553S	19	31	47
	V41554	V41554S	20	33	47
	V41555	V41555S	21	33	47
	V41556	V41556S	22	35	47

DIPPED INSULATED

E TYPE SOCKET 3/8"









DIPPED



Multilayer dipped Item No.	Dipped Item No.		D	Н
V41560	V41560S	E8	16	45
V41561	V41561S	E10	18	45
V41562	V41562S	E11	19	45
V41563	V41563S	E12	20	45
V41564	V41564S	E14	22	45
V41565	V41565S	E16	25	45
V41566	V41566S	E18	27	45
V41567	V41567S	E20	29	45

DIPPED INSULATED

BIT SOCKET FOR TORX SCREWS, LONG VERSION 3/8"

☆1000V









DIPPED



Multilayer dipped Item No.	Dipped Item No.	0	⊬ <mark>mm</mark> ⊣
V41921	V41921S	T10	157
V41922	V41922S	T15	157
V41923	V41923S	T20	157
V41924	V41924S	T25	157
V41925	V41925S	T27	157
V41926	V41926S	T30	157
V41927	V41927S	T40	157
V41928	V41928S	T45	157
V41929	V41929S	T50	157
V41930	V41930S	T55	157

DIPPED INSULATED

BIT SOCKET FOR HEXAGON SCREWS. **LONG VERSION 3/8"**

☆1000V









Multilayer dipped Item No.	Dipped Item No.	0	K MM →
V41911	V41911S	4	157
V41912	V41912S	5	157
V41913	V41913S	6	157
V41914	V41914S	8	157
V41915	V41915S	10	157

DIPPED INSULATED

BIT SOCKET WITH DOUBLE-HEX 3/8"

☆1000V









DIPPED INSULATED

BIT SOCKET WITH DOUBLE-HEX, **LONG VERSION 3/8"**

DIPPED

☆1000V

MULTILAYER DIPPED







	'		
Multilayer dipped Item No.	Dipped Item No.	0	⊬ mm →
V41941	V41941S	M6	157
V41942	V41942S	M8	157
V41943	V41943S	M10	157

DIPPED INSULATED BIT ADAPTER 1/4"









DIPPED





☆1000V **△**

DIPPED INSULATED

ADAPTER

☆1000V





Multilayer dipped Item No.	Dipped Item No.	0	mm →
V41931	V41931S	M6	75
V41932	V41932S	M8	75
V41933	V41933S	M10	75
V41934	V41934S	M12	75

Item No.	0	
V42321	1/2"	3/8"
V42322	3/8"	1/2"
V42323	3/8"	1/4"
V42324	1/4"	3/8"

INJECTION INSULATED

2-COMPONENT HEXAGON SOCKET WITH DOUBLE-HEX 1/2"



Item No.		D	Н
V41438	8	18	59
V41439	9	19	59
V41440	10	21	59
V41441	11	22	59
V41442	12	23	59
V41443	13	24	59
V41444	14	26	59
V41445	15	27	59
V41446	16	27	59
V41447	17	29	59
V41448	18	30.5	59
V41449	19	31	59
V41450	20	33	59
V41451	21	33	59
V41452	22	35	59
V41454	24	37	59
V41457	27	41	59
V41460	30	45	59
V41462	32	47	59

INJECTION INSULATED

2-COMPONENT BIT SOCKET FOR HEXAGON SCREWS, LONG VERSION 1/2"





Item No.	0	k mm →
V41814	4	157
V41815	5	157
V41816	6	157
V41818	8	157
V41820	10	157

INJECTION INSULATED

2-COMPONENT BIT SOCKET FOR TORX SCREWS, LONG VERSION1/2"







Item No.	0	K ——→
V41831	T10	157
V41832	T15	157
V41833	T20	157
V41834	T25	157
V41835	T27	157
V41836	T30	157
V41837	T40	157
V41838	T45	157
V41839	T50	157
V41840	T55	157

INJECTION INSULATED

2-COMPONENT BIT SOCKET WITH DOUBLE-HEX 1/2"







Item No.	0	k mm ⊣
V41851	M6	120
V41852	M8	120
V41853	M10	120
V41854	M12	120

INJECTION INSULATED

2-COMPONENT **BIT SOCKET** WITH DOUBLE-HEX, LONG VERSION 1/2"





INJECTION INSULATED

2-COMPONENT E TYPE SOCKET 3/8"







	
A D V	

Item No.	0	K → ×
V41861	M6	157
V41862	M8	157
V41863	M10	157

TOUSEN

INJECTION INSULATED

2-COMPONENT HEXAGON SOCKET WITH **DOUBLE-HEX 3/8"**



Item No.		D	Н
V41656	6	14.5	45
V41657	7	16	45
V41658	8	17	45
V41659	9	18	45
V41660	10	20	45
V41661	11	21	45
V41662	12	23	45
V41663	13	23.5	45
V41664	14	25	45
V41665	15	26	45
V41666	16	27	45
V41667	17	28.5	45
V41668	18	30	45
V41669	19	31	45
V41670	20	33	45
V41671	21	33	45
V41672	22	35	45

Item No.		D	Н
V41678	E8	16	45
V41680	E10	18	45
V41681	E11	19	45
V41682	E12	20	45
V41684	E14	22	45
V41686	E16	25	45
V41688	E18	27	45
V41690	E20	29	45

INJECTION INSULATED

2-COMPONENT BIT SOCKET FOR HEXAGON **SCREWS, LONG VERSION 3/8"**





Item No.	0	k——→
V42014	4	157
V42015	5	157
V42016	6	157
V42017	8	157
V42018	10	157

INJECTION INSULATED

2-COMPONENT **BIT SOCKET FOR** TORX SCREWS, **LONG VERSION 3/8"**





Item No.	0	K ≯
V42021	T10	157
V42022	T15	157
V42023	T20	157
V42024	T25	157
V42025	T27	157
V42026	T30	157
V42027	T40	157
V42028	T45	157
V42029	T50	157
V42030	T55	157

INJECTION INSULATED

2-COMPONENT BIT SOCKET WITH DOUBLE-**HEX 3/8"**





Item No.	0	K MM →
V42031	M6	75
V42032	M8	75
V42033	M10	75
V42034	M12	75

INJECTION INSULATED

2-COMPONENT **BIT SOCKET WITH** DOUBLE-HEX, **LONG VERSION 3/8"**





Item No.	0	⊬ mm
V42035	M6	157
V42036	M8	157
V42037	M10	157

INJECTION INSULATED BIT ADAPTER 1/4"





Item No.	0	⊢ mm →
V42415	1/4"	75

INJECTION INSULATED

2-COMPONENT ADAPTER





Item No.	0	
V42421	1/2"	3/8"
V42422	3/8"	1/2"
V42423	3/8"	1/4"
V42424	1/4"	3/8"

INJECTION INSULATED

Z TYPE ADAPTER 3/8"

☆1000V



Item No.			
V42430	3/8"	10	

☆1000V

ACCESSORIES



Item No.	Size
V70201	1#
V70202	2#
V70203	3#

DIPPED INSULATED

SELF-CLAMPING SLIP-ON CAPS



Item No.	Size	⊬ mm
V70410	10	80
V70420	20	100
V70430	30	110
V70440	40	120
V70445	45	120
V70450	50	130
V70460	60	130



DIPPED INSULATED

SINGLE-EAR PROTECTIVE COVER

☆1000V



Item No.	Size	Н
V70510	110	180

DIPPED INSULATED

DOUBLE-EARS PROTECTIVE COVER

☆1000V



Item No.	Size	Н
V70520	110	180

DIPPED INSULATED

LIFE-SAVING HOOK

☆1000V



Item No.	Size
V70550	ф 25mm

DIPPED INSULATED JUNIOR HACKSAW

☆1000V



Item No.	D	L
V50112	300	460

INJECTION INSULATED **MALLET**

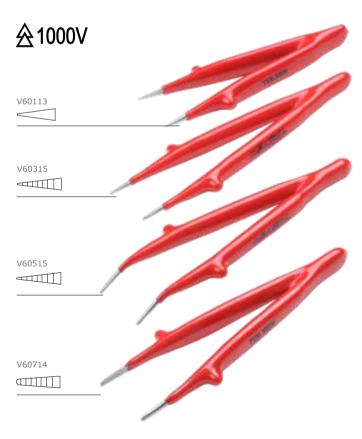
☆1000V



Item No.	Φ mm	 mm 	Weight/kg
V71030	30	315	0.6

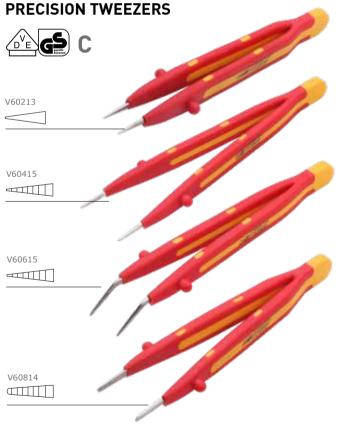
DIPPED INSULATED

PRECISION TWEEZERS



Item No.	K—— ≯
V60113	130
V60315	158
V60515	155
V60714	145

INJECTION INSULATED



Item No.	⊬ mm →
V60213	135
V60415	158
V60615	155
V60814	145



50

50

48

180

180

155

185



Item No.	K mm →
V90047	160

INJECTION INSULATED

PLASTIC CLAMP



⊬ mm →
200

INJECTION INSULATED

PLASTIC CLAMP



Item No.	⊬ mm →
V61205	75
V61215	150

V51018

V51218

V51416

V50819

TOLSENVDELINE



		_
V50230	150	300



Item No.	D	L
V50231	300	483

VINYL ELECTRICAL TAPE Pressure Sensitive Vinyl Tape Cold And Sunlight Resistant Flame Retardant Primary Insulation 600V UL 510, CSA, VDE Approved



Item No.	Size	
V90052	19mm x 0.18mm x 10m	

☆1000V

EI ECTD	ICIANS' GL	OVES
ELECTA	ICIANS GL	OAE2
For Protection	When Working	
Live or Close to	Live Parts	
Tested Accordi	ng to	
EN60903 Stan	dard	

Item No.	Size
V90048	12KV
V90049	20KV

NON-CONTACT AC VOLTAGE DETECTOR











Item No.	k mm →
38110	156

VOLTAGE TESTER



Item No.	∖ mm
V70670	70
V70710	105
V70860	60
V70960	60

TOLSEN TELECOM TOOLS



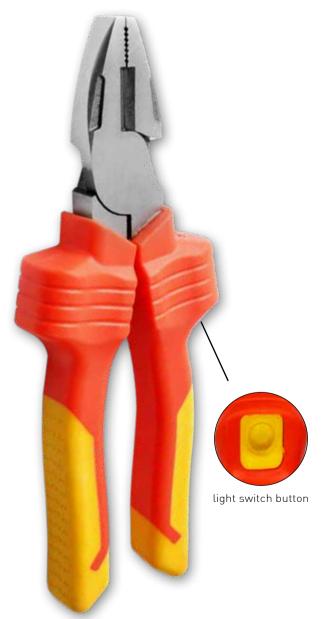
COMBINATION PLIERS

In the event of electricity, the flash will alarm the alarm, bringing safety and security to the work High leverage design. Rivet is closer to the cutting edge for greater cutting and

gripping power than other normal plier design.

There is a light switch button on the grip of the pliers it's very convenient to

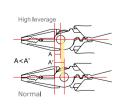
switch back and fornt











Item No.	Size	
TL4010	8"	



DIAGONAL PLIERS

In the event of electricity, the flash will alarm the alarm, bringing safety and

security to the work High leverage design. Rivet is closer to the cutting edge for greater cutting and gripping power than other normal plier design.

There is a light switch button on the grip of the pliers it's very convenient to

switch back and fornt







Item No.	Size
TL4020	6"

PROFESSIONAL HIGH LEVERAGE COMBINATION PLIER

High leverage design. Rivet is closer to the cutting edge for greater cutting and gripping power than other normal plier design. Special hardened cuter and precision machined body make the work easy and comfortable.



Item No.	Size	
TL0180	8"	

SNIPE NOSE SIDE CUTTING PLIERS

In the event of electricity, the flash will alarm the alarm, bringing safety and

High leverage design. Rivet is closer to the cutting edge for greater cutting and gripping power than other normal plier design.

There is a light switch button on the grip of the pliers it's very convenient to

switch back and fornt







Item No.	Size
TL4030	8"

PROFESSIONAL HIGH LEVERAGE **COMBINATION PLIER**

High leverage design. Rivet is closer to the cutting edge for greater cutting and gripping power than other normal plier design. Special hardened cuter and precision machined body make the work easy and comfortable.

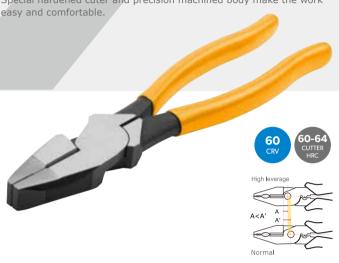




HIGH LEVERAGE SIDE CUTTING PLIER

High leverage design. Rivet is closer to the cutting edge for greater cutting and gripping power than other normal plier design. Designed for heavy duty use of cutting bolts, nails and high-strength





Item No.	Size
TL0101-8	8"
TL0101-9	9-1/2"

HIGH LEVERAGE SIDE CUTTING PLIER W/ **TAPE PULLER**

High leverage design. Rivet is closer to the cutting edge for greater cutting and gripping power than other normal plier design. Designed for heavy duty use of cutting bolts, nails and high-strength

Crimping die behind hinge for superior leverage crimping of noninsulated connectors and terminals

Easily pull 1/8" or 1/4" flat steel fish tape without damaging the tape Special hardened cuter and precision machined body make the work



Item No.	Size
TL0101-9CP	9-1/2"

DIAGONAL CUTTING PLIER

Designed for heavy duty wire cutting.

Special hardened cuter and precision machined body make the work easy and comfortable.







Item No.	Size
TL0102-7	7"
TL0102-8	8"

DIAGONAL CUTTING PLIER, ANGLED HEAD

Angled head design for easy work in confined spaces Designed for heavy duty wire cutting.

Special hardened cuter and precision machined body make the work easy and comfortable.









Item No.	Size
TL0102-8A	8"



DIAGONAL CUTTING PLIER, SKINNING & STRIPPING

Angled head design for easy work in confined spaces Designed for heavy duty wire cutting.

Special hardened cuter and precision machined body make the work easy and comfortable



Item No.	Size	
TL0103-6B	6-1/2"	

CONNECTOR CRIMPING PLIERS

Crimp and seat UR, UY & UG insulation displacement connectors Pricision machined crimping area



Item No.	Size	
TL0112	6"	

LONG NOSE CRIMPING PLIERS

knurled jaws for wire wrapping,
looping and twisting
With a .030" stripping hole
Crimp and seat UR, UY & UG
insulation displacement connectors
Pricision machined crimping area
Serrated behind the hinge to crush
insulation

LONG	NOSF PI	IFR WI	TH SIDF	CUTTER

Item No.

TL0116



Size

6-1/2"

Item No.	Size	
TL0118	6-1/2"	

COPPER COAX CABLE CUTTER

Designed to cut soft copper coax and network cable cut solid and stranded and flexible cable to 6 AWG precisely ground jaws for clean cut without fraying or crushing ends

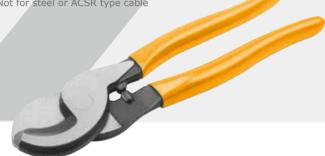


Item No.	Size	
TL0161	6"	



CABLE CUTTER

Designed with a shear-type jaw for cutting aluminum and copper Cut up to 100-pair cables Not for steel or ACSR type cable



Item No.	Size	
TL0160	9-1/2"	

COAX CABLE CUTTER

Designed to cut 3/4"" coaxial cable, Cable-gripping jaws easily cut through copper inner conductor Not for steel or ACSR type cable



Item No.	Size
TL0163	8-1/2"

COAX CABLE CUTTER



Item No.	Size	
TL0165	8-1/2"	_

PUMP PLIERS

Secure tonque and groove for a non-slip grip, even under heavy pressure Wide range versatile jaw positions



Item No.	Size	
TL0150-6	6"	
TL0150-8	8"	
TL0150-10	10"	
TL0150-12	12"	

ELECTRICIAN SCISSOR





ELECTRICIAN SCISSOR

One blade serrated, to prevent slip, especially convenient for cutting fiberglass cloth

Both back of the blade can be used as a file or scraper With notches, for stripping 19 AWG & 23 AWG wire Good tenacity, durability, and sharpness of blade

Ergonomic design for easily cutting



Item No.	Size	
TL0172	6"	



RATCHET CRIMPING PLIERS

For fast, reliable connector installations Quick change interchangeable die-sets Ratchet mechanism is designed to prevent the release of the connector prior to full compression



Item No.	Size	
TL0201	8"	

RJ-11 & RJ-45 CRIMP TOOL

Crimp tool with built-in cutter & stripper for use on RJ-11 & RJ-45 connectors, including feedthrough type connectors Precisely ground crimping dies can be used for 2,4,6 & 8



Item No.	Size
TL0240	



Item No.	Size
TL0205	8"

COMPRESSION TOOL

For crimping RG59, RG6 and RG11 connectors Also for long style F connectors



Item No.	Size	
TL0210	7"	

COMPRESSION TOOL

Reliable F-connector installation tool

Fixed plunger allow quick, easy insertion and removal of cable and connector $% \left(1\right) =\left(1\right) \left(1$

Fixed plunger accepts many common F-connector compression fittings



Item No.	Size
TL0216	5-1/2"

COAXIAL CABLE STRIPPER

Stripping the coaxial jacket and inner conductor in one operation by rotating the stripper in clockwise direction 2-6 times, easy and effective



Item No.	Size
TL0230	4"



ARMORED CABLE SLTTING TOOL

Designed to gain mid span access by slitting open jacketed and armored fiber optic cable

can change blade direction for longitudinal or radial cuts blade is avialable to replace



BIX PUNCHDOWN TOOL

Designed to terminate cables, pigtails and jumper wires on GigaBIX, BIX and UMOXS cross-connect system connectors

Can terminate 22-26 AWG platic insulated solid copper conductors Can adjust the tool for seating only or for seating and cutting the conductors



Item No.	Size	
TL0231A	4-10 mm	
TL0231B	8-28 mm	

Item No.	Size
TL0301	

COAXIAL CABLE STRIPPER

Adjustable stripping blade for different thickness insulation, prevent damage of shield and conductor

The cassette can be reversed to fit different coaxiable cable Easy operation



Item No.	Size
TL0232	5"

3M IMPACT INSERTION TOOL

For terminating wires on 3M MS2 cross-connect pannels



Item No.	Size
TL0330	6"

TOLSENTELECOM

PUNCHDOWN TOOL



Item No.	Size	
TL0303	6"	

PUNCHDOWN TOOL BLADE

Made by special metal powder injection technology, give extra long lifetime and precise sizes



Item No.	Size	
TL0305-66	66 blade with & without blade	
TL0305-110	110 blade with & without blade	
TL0305-116	combination 66 & 110 blade	
TL0305-KRONE	krone blade with scissor	

FISH TAPE

High strength fish tape are stiff for long runs and are great for heavy duty wire puller





Item No.	Size
TL0405	50 feet, steel tape
TL0412	120 feet, steel tape
TL0424	240 feet, steel tape
TL0405S	50 feet, stainless steel tape
TL0405F	50 feet, fiberglass tape

TELESCOPIC POLE

Use to install or retrieve a cable in drop ceilings or other high place Made of insulated fiberglass tapered tube,

Including 3 hook accessories

Item No.	Size	
TL0420	18feet	_
	ELESCOPIC	
		Oum -

FISH RODS

3/16"x5' fish rod, 6 sections in one set Glow in the dark for more convenient job Use to install wires through ceilings, walls,floors.

Flexible fiberglass material, yet rigid for pulling wire long diatance.

Various length can be created by connecting individual sections.

Including 4 hook accessories.

Item No.	Size
TL0430	30feet



SCREWDRIVER



Item No.	Size
TL0501	SL: 1/4" x 1-1/2"
TL0502	SL: 3/16" x 3"
TL0503	SL: 3/16" x 4"
TL0504	SL: 3/16" x 6"
TL0505	SL: 1/4" x 4"
TL0506	SL: 1/4" x 6"
TL0507	SL: 5/16" x 6"
TL0508	SL: 3/8" x 10"
TL0511	PH 2 x 1-1/2"
TL0512	PH 1 x 3"
TL0513	PH 2 x 4"
TL0514	PH 2 x 6"
TL0515	PH 2 x 8"
TL0516	PH 3 x 6"
TL0522	S 2 x4"
TL0523	S 3 x 4"

MULTI-BIT SCREWDRIVER



Size

NUT DRIVER



Item No.	Size	
TL0561	3/16" x 3"	
TL0562	1/4" x 3"	
TL0563	5/16" x 3"	
TL0564	11/32" x 3"	
TL0565	3/8" x 3"	
TL0566	7/16" x 3"	
TL0567	1/2" x 3"	

PRECISION SCREWDRIVER



Item No.	Size
TL0531	SL 0.18 x 1.0 mm
TL0532	SL 0.25 x 1.4 mm
TL0533	SL 0.25 x 1.6 mm
TL0534	SL 0.40 x 2.0 mm
TL0535	SL 0.40 x 2.5 mm
TL0536	SL 0.50 x 3.0 mm
TL0537	PH #000
TL0538	PH #00
TL0539	PH #0
TL0540	PH #1

Item No. TL0550



FOLDING HEX KEY SET



Item No.	Size
TL0580-8S	8 piece folding hex key set, SAE 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"
TL0580-8M	8 piece folding hex key set , METRIC 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 5.5, 6.0 mm
TL0580-5S	5 piece folding hex key set, SAE 3/16", 7/32", 1/4", 5/16", 3/8"
TL0580-5M	5 piece folding hex key set, METRIC 5.0, 5.5, 6.0, 8.0, 10.0 mm

30 PCS HEX KEY SET

CRV steel, black finish

Short Arm: MM-0.7-0.9-1.3-1.5-2-2.5-3-4-4.5-5

-5.5-6-7-8-10mm

Long Arm: SAE-0.028"-0.035"-0.05"-1/16"-5/64" -3/32"-7/64"-1/8"-9/64"-5/32"-3/16"-7/32"-1/4"

-5/16"-3/8"



Item No.	Size	
TL0585	30 pcs set	

WIRE STRIPPER, HEAVY DUTY

thickened zinc ally body precision machined stripping hole on high grade SK5 steel blade,

for stripping 1.0/ 1.6/ 2.0/ 2.6/ 3.2 mm wire



Item No.	Size
TL0610	6"

AUTOMATIC WIRE STRIPPER

jaws are made of special alloy Cr12MoV, for better working and longer lifetime

stripping wire range: $10\text{-}24~\text{AWG} / 0.2\text{-}6.0~\text{mm}^2$

with a wire cutter

crimper:

insulated terminal: 10-22 AWG / 0.5 - 6.0 mm² non insulated terminal: 10-12 AWG / 4.0 - 6.0 mm²

14-16 AWG / 1.5 - 2.5 mm² 18-22 AWG / 0.5 - 1.0 mm²



Item No.	Size
TL0620	8"



FIBER INSPECTION MICROSCOPE

Designed to provide clear view of connector face and fiber

The achromatic lens offers excellent imaging and integrated laser filters for safety (not intended for use with illuminated fibers)

Coaxial illumination, from LED light.

With 2.5mm and 1.25mm adapters for use on most fiber connectors



Item No.	TL3020	TL3040
Magnification	200	400

FIBER SCRIBE use to split the optic fiber tungsten steel blade, give greater sharpness and durability

Item No.	Size
TL1010	3/8"x18"

MINI VISUAL FAULT LOCATOR (VFL)

Constant & stable output power Special laser driver circuit design, to make sure the laser output power remains a constant power level as long as in an available battery voltage.

Low battery warning, reminds

Low battery warning, reminds users to change the battery timely. Long battery life(up to 40 hours with MA batteries)

Operates either in CW or Pulsed Pocket size and light weight, easy to use



Item No.	TL2001	
Wavelength(nm)	650nm±10nm	
Emitter type	FP-LD	
Output power	1mw or 10mw	
Optical connector	FC/2.5mm universal connector For 1.25mm connectors, FC (Male)-LC (Female) convertor can be optional on customer requests	
Operating Model	Both CW and Pulse(2Hz) available	
Power Supply	Two AAA alkaline batteries	
Battery Operating Time	40hours Test with Panasonic LR6 AAA ALKALINE battery	
Operating	-10— +45 (°C)	
Storage Temperature	-25"+70 (°C)	

OPTICAL POWER METER

User self calibration function Comfortable LCD display and optional backlight LCD display supports night operation

Power measurements in dBm or mw and insertion loss in dB

Low battery consumption, more than 240 hours continual operation time for three 1.5V alkaline batteries

10 minutes Auto-off function can be activated or deactivated.



Item No.	TL2010A	TL2010C	
Wavelength(nm)	800~1700nm		
Detector type	InGaAs		
Measurement Range (dBm)	-70~+6 -50~+26		
Uncertainty (dB)	±0.25		
Calibrated Wavelength(nm)	850,980,1300,1310,1490,1550		
Resolution(dB)	0.01		
Optical Connector	FC(interchangeable SC	,ST) / as well as 2.5mm	
	univ	ersal	
Power Supply	Alkaline Battery(3 AA 1.5V batteries)		
Battery Operating Time	240 h with 1.5V Battery(3)		
Operating Temperature(oC)	-10~+60		
Storage Temperature(oC)	-25~+70		
Relative Humidity	0 to 95% (non-condensing)		
Dimension(mm)	152x74x26		
Weight[g]	160		



PON OPTICAL POWER METER

Analyzes voice, data, and video signals in BPON/EPON/GPON FTTx systems

Concurrently measures 1310 nm, 1490 nm, and 1550 nm wavelengths anywhere in the network

Three Pass, Warning, and Fail LED indicators allow you to quickly assess your network's power level USB port allows quick transfer of data, and up to 1,000 measurement items can be saved at once Optional 10-minute auto-off can be activated or deactivated Shatter-resistant sleeve protects it from accidental falls or other damage



Item No. TL2015 1310 Upstream Measurement 1260 nm ~ 1360 nm Pass Zone (nm) Measurement Range (dBM) -35 dBm ~+ 10 dBm Output Power (max) 15 dBm Isolation @ 1490/1550 (dB) >40 dB < ± 0.5 dB Burst Mode Measurement Error 1490 & 1550 Downstream Measurement Pass Zone (nm) 1470 nm ~ 1505 nm -35 dBm ~+ 10 dBm Measurement Range (dBm) Output Power (max) 15 dBm Isolation @ 1310/1550 (dB) >40 dB Pass Zone (nm) 1535 nm ~ 1570 nm -35 dBm ~+ 20 dBm Measurement Range (dBm) Output Power (max) 15 dBm Isolation @ (1310/1490 nm) >40 dB **Measurement Accuracy** Connatural Uncertainty (dB) ± 0.5 dB Linearity (dB) ± 0.1 dB Passing through Insertion Loss (dB) <1.5 dB **General Information** Detector Type nGaAs Optical Connector FC/SC/ST Interchangeable/ 2.5 Universal Adapter Fiber Type SM 9/125 um Measurement Unit dB/dBm/xW Resolution (dB) 0.01 dB DC 3.3 V ~ 5.5 V Operation Voltage (V) Power Supply 3 pc 1.5 V Battery Continuous Operation Time (h) Operation Temperature (°C) -10°C ~ 70°C -25°C ~ 70°C Storage Temperature (°C)

OPTICAL LIGHT SOURCE

Providing $1{\sim}4$ wavelengths output and wavelengths can be optional according to customers' needs

CW, 2Hz modulation output at 650nm, and CW, 270Hz,1KHz,2KHz modulation output at other wavelengths.

High stability of the output power Stable output wavelength

Compact size and decent appearance

Large LCD, easy operation



Item No.		TL2020
Wavelengths(nm)	650	01310/1550850/1300850/1300/1550850/1300/1 310/1550
Emitter Type		FP-LD,LED or others please specify
Typical Output Power (dBm)	0	
Spectral Width(nm)		≤10
Output Stability		±0.05dB/15mins; ±0.1dB/8hours
Modulation Frequencies	CW,2Hz	
Optical Connector	FC universal adaptor	
Power Supply		Alkaline Battery(3 AA 1.5V batteries)
Battery Operating Time(hour)		45
Operating Temperature(°C)		-10~+60
Storage Temperature(°C)		-25~+70
Dimension(mm)		152X74X26
Weight		180g



OTDR

Novel and beautiful appearance and structure design;

Special protection design of shell, durable and axle to work uncer bad environment;

Simplest operating interface, shortcut key operation, easy to use; Dual operation of touch screen and keys;

Short evert blind zone, test 5 m fiber jumper easily: I-ave a multiple kinds of test modes such as automatic test, manual test and blind zone test, etc.. Light detection and alarm are provided in the line, to avoic signal light from damage the

instrument in the tested optical fiber; Built-in high-power visual red light fault positioning function;

The USB interface functions can quickly realize the file transfer and report form preparation;

The universal light output connector is easy to replace, which is able to realize e a variety of interface tests; Smart battery electric quantity indication and low —voltage alarm function;

10-hour long time of duration, particularly suitable for the field construction application for a long time;

The multi-vvavelergth and dynamic range selection can satisfy customer's high higher cost performance demands to the greatest extent; The highly intelligent analysis software can accurately identify the fault splices, connectors and even macro-bending;



Item No.	TL2030	
Type of optical fiber	Single -mode	
Center wavelength	1310nm/1550nm (±20nm	
Maximum dynamic range (dB)	36/35 30/28	
Event blind zone	1.5m	
Attenuation blind zone	10m	
Display type	3.5inch, color LCD, touch screen operation	
Optical interface	FC/U PC (Interchangeable SC, ST)	
Test range	500m,1km,2km,4km,8km,16km,32km,64km,128km	
Pulse width	10,30,50,100,275,500,1000,5000,10000ns	
Range accuracy	± (1m + sampling interval +0.005% x distance)	
Attenuation measurement	±0.05 dB/dB	
Reflection measurement	±4dB	
Data storage	1000 test curves	
Communication interface	USB	
Power supply mode	AC/ DC adapter: AC: 100V — 240V (1.5A), 50/60Hz DC: 18V to 20V (2A) Internal lithium-ion battery pack: 7.4V, 4400mAh	
Battery operation time	k. Whours	
Operating temperature	-5 r — 50 r	
Storage temperature	-20 r − 70 r	
Relative humidity	0 — 95 "-, no condensation	
Weight	." 1kg	
Volume	220mm x 100mm x 65mm	

OPTICAL FUSION SPLICER

Precise fiber core alignment, ultra-low fiber fusion splicing consumption 7s fast fusion splicing, 18s highly efficient heating. 320 times image magnification, 5mm fusion splicing for fibers of ultra-

320 times image magnification, 5mm fusion splicing for fibers of ultra short cutting length 300 groups of fusion splicing modes, 100 groups of heating modes

10000 groups of fusion records, 64 images storage
Ceramic presser foot, ceramic V-block, all-in-one fixture
Dual-direction splicing, automatic splicing, intelligent pyrocondensation
USB and SD card interfaces, U-disk automatic software upgrade
Built-in modular lithium battery, supports 220 times of splicing and heating cycles.



Item No.	TL2040	
Alignment method	Precise core alignment and cladding alignment	
Applicable fibers	Any common optical fibers, rubber-insulated fibers and jumpers that meet requirements of ITU-TG.651-653, ITU-TG.655 and ITU-TG.657.	
Optical fiber diameter	Cladding; 80-150p m, coating layer: 0.1 —3mm	
Cutting length	5-16mm (coated optical fiber diameterC.250pm) ;10mm (coated optical fiber diameter: 0.25-3mm)	
Fusion splicing consum ption (typical value)	0.02dB (SMF) ; 0.01 dB (MMF) ; 0.04dB (DSF) ; 0.04dB	
Return loss	(NZDSF) Better than 60dB	
Fusion splicing time (typical value)	7s	
Heating time (typical value)	18s	
Pulling force test	1.96-2.25N	
Thermal shrinkage tube	60mm, 40mm and a series of thermal shrinkage tubes	
Graphical display	High-performance 4.3 inch LCD	
Magnification time	320 times/88 times	
Fusion splicing record	10000 groups	
Battery capacity Battery service life	11.1V, 6400mAh, typical value of fusion splicing and thermal cycle is 220 times Cycle charging times reach 300-500, can be replaced by customers	
Electrode service life	Typical value is 4000 times, can be replaced by customers	
Construction lighting	Built-in lights with high-brightness and wide lighting area	
Working environment	Temp:-10-50°C ; hum: 0-95%RH, height above sea level:0-6000m	
Operation interfaces	GUI graphical operation interfaces	
External power	AC: AC100-240V, 60Hz, 0-1.5A; DC: DC10-15V	
External port	USB / SD	
Dimensions Weight	120mm (W) x 130mm (H) x 154mm (D) (without rubber anti-vibration pad) 1.59kg (host engine) , 0.37kg (battery)	



OPTICAL FIBER IDENTIFIER

Easy-to-use with "ONE KEY" operation.
Efficiently identifies the traffic direction and frequency tone (270Hz, 1KHz, 2KHz) with audible warning.
Displays the relative core power
More accurate test with Sunshade
Easy-to-replace adaptors
Durable metal housing and quality construction
Lower power indication



Item No.	TL2050	
Identified Wavelength Range	800-1700 nm	
Identified Signal Type	CW, 270Hz±5%, 1kHz±5%, 2kHz±5%	
Detector Type	Ø1mm InGaAs 2pcs	
Adapter Type	Ø0.25 (Applicable for Bare Fiber), Ø0.9 (Applicable for Ø0.9 Cable)	
	Ø2.0 (Applicable for Ø2.0 Cable), Ø3.0 (Applicable for Ø3.0 Cable)	
Signal Direction	Left & Right LED	
Singe Direction Test Range (dBm, CW/0.9mm bare fiber)	-46~10(1310nm)	
	-50~10(1550nm)	
Signal Power Test Range (dBm, CW/0.9mm bare fiber)	-50~+10	
Signal Frequency Display (Hz)	270, 1k, 2k	
Frequency Test Range (dBm, Average Value)	Ø0.9, Ø2.0,	-30~0 (270Hz,1KHz)
	Ø 3.0	-25~0 (2KHz)
	Ø 0.25	-25~0 (1KHz,2KHz)
		-20~0 (2KHz)
Insertion Loss (dB, Typical Value)	0.8 (1310nm)	
	2.5 (1550nm)	
Alkaline Battery (V)	9	
Operating Temperature(oC)	-10 - +60	
Storage Temperature(oC)	-25 - +70	
Dimension (mm)	196X30.5X27	
Weight (g)	200	



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