



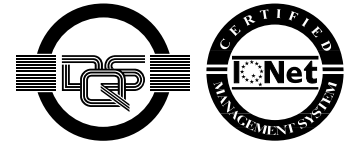
INSULATED SAFETY TOOLS

www.intercable.com

intercable
TOOLS FOR PROFESSIONALS

INTERCABLE STANDS FOR HIGH QUALITY

Products and service! An efficient organisation, as well as a quality management according to the EN ISO 9001 international standards, guarantee optimum processes and continual improvement. In-house design and production in Italy and Germany and full commitment of our highly trained personell is our main recipe of success.



DIN EN ISO 9001: Reg.-Nr. 067378
ISO/TS 16949: Rea.-Nr. 067378



Assembling of hydraulic tools in the headquarter



In-house production of the tools



Planning and construction of innovative products



10.000V voltage test

TECHNOLOGY IS OUR PASSION

Our specialists set themselves a clear goal: provide workers in the electrical technology sector with the very best tools and equipment for performing their daily tasks.

Our own innovation department with its highest qualified experts and the latest technologies in the planning and construction sector is the guarantee for our success and the continuous improvements.



Inspection of a hydraulic pump core by 3D device

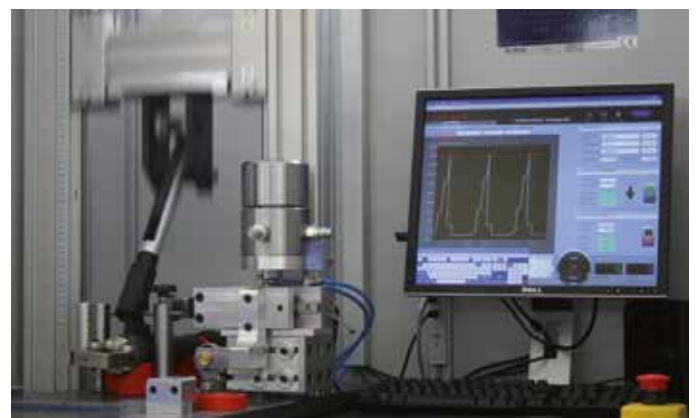
OUR KNOW-HOW FOR YOUR SAFETY

Safety tests on every single tool







Every single IEC 60900 certified tool (identified by the double triangle and the 1000V sign) produced by Intercable undergoes a 10,000 Volt voltage test in a water bath or with steel balls for 10 seconds.

Technical tests on every single tool

Each hydraulic tool produced by Intercable is subjected to a series of particularly severe technical tests. The test certificate is enclosed to the tool and traceable by the serial number.



Technical test of hydraulic tools

	<p>Insulated Pliers and Cutting Pliers Scissors, Insulated Knives and Saws Insulated Screwdrivers</p> <p>7 - 20</p>
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STANDARD: IEC 60900

Live Working or close to live parts working
- up to 1000V a.c and 1500V d.c



SAFETY TOOLS SUITABLE FOR
LIVE LINE WORKING ARE MARKED
WITH THE DOUBLE TRIANGLE



Insulating Hand Tools

made totally or essentially from insulating materials except for inserts made from conductive material (reinforcement purpose), but with no exposed conductive parts.

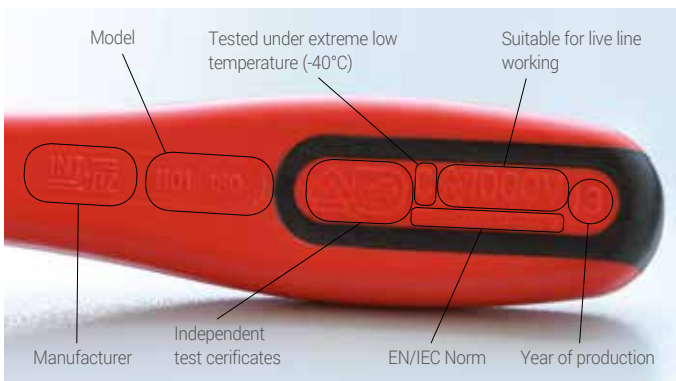
SCOPE: protect user for electric shock and avoid short circuit between two parts of different potential



Insulated Hand Tools

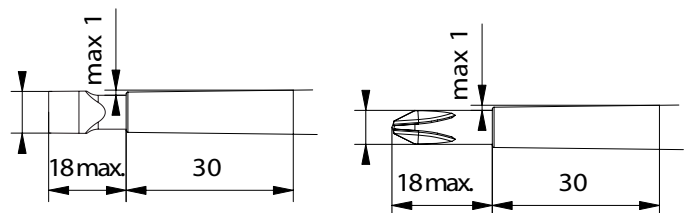
made of conductive material, fully or partially covered by insulating material

SCOPE: protect user for electric shock



- Tool and insulation must be free from external defects
- All required markings must be legible and difficult to remove

Dimensions and marking



- must be within the parameters which are set by the Norm e.g. the connector of the modular tools must be according to ISO 1174-1



TECHNICAL INSPECTIONS

Internal Testing Laboratory

- 3D-measuring systems
- 3D-Videomeasuring systems (smart Scope)
- Hardness-testing systems
- Compression-tension testing machines (50 kN)
- Thermic chambers (until 300°C/-40°C to 180°C)
- Climate chamber (-70°C to 180°C / 0-99% humidity)
- High-Tension testing devices (10 kV)
- High-Current testing device up to 1.000 A
- Photomicrograph equipment (section analysis)
- Surface thickness measurement
- Coating testing device (high tension)
- Special ohmmeter
- Tightness test equipment
- Torque moment testing device
- Fischerscope X-ray
- Saltspray chamber



Dialectric Test

10kV at 50Hz or 60Hz for 3min

Linked to following Conditioning:

- Water bath 24h - after dry wiping dialectric test
- Wet chamber 48h (23°C ±5°C) - after dry wiping dialectric test



Impact Test

- Ambient temperature impact test..... (23°C ±5°C / 2m)
- Low temperature impact test..... (2h -25°C ±3°C / 0,6m)
- Extreme low temperature imp. test..... (2n -40°C ±3°C / 0,6m)



Adesion Test

- a) of the insulation of the entire tool
 - 500N for 3min
 - handle must remain firmly on conducting part
- b) Of conducting adjusting or switching elements

OUR QUALITY ASSURANCE PLAN

- Visual Check
- Tool capable of being assembled
- Sampling tests
- Records
- Quality audits
- 100% Dielectric 10 for 10s for every single tool that is marked 1000V



Indentation Test

Linked to following Conditioning:

- Test pointing in horizontal conditions based on determined data (20N)
The test is considered successful if no electrical puncture, sparkover or flashover occurs during test period. (5kV x 3min)



Flame Retardancy Test

1. Step: yellow tipped blue Flame of 20mm ± 2mm to be pointed for 10sec on the insulation
2. Step: withdrawn the flame and observe 20s test piece
3. Step: test is passed if the flame height on the tool does not exceed 120mm during 20s of observation period

ACTIVE MEMBER OF:

- CEI (Italian Electro Technical Committee)
- UNI (Italian Standardization Committee)
- Working groups of the European and International Standardization Committee

QUALITY CERTIFICATIONS



Quality Management System ISO 9001:2008



Environmental Management System ISO 14001



VDE - EN 60900 approval



INSULATED HANDTOOLS

INSULATED PLIERS FUTUR II

Pliers realized in „multi component“ - material:

- Insulation made of shockproof resin
- Handgrip inserts made of thermal rubber

Norms:

ISO 5746

UNI 9894

VDE 0682-201





Engineers Pliers 2K

- For cutting soft and medium hard wires
- High resistant gripping surface

Description	Order No.	Length	Weight
Engineers Pliers 2K	1101 160	160 mm	218 g
Engineers Pliers 2K	1101 180	180 mm	250 g
Engineers Pliers 2K	1101 200	200 mm	282 g



Engineers Pliers ISOplus

- Extra long blades
- For copper and aluminium cables with maximum 16 mm²
- Gripping surface with 3 indentations for various cable diameters

Description	Order No.	Length	Weight
Engineers Pliers ISOplus	1109 2	190 mm	142 g



INSULATING HANDTOOLS

Insulating Gripping Pliers ISOplus

- Gripping surface with 8 indentations for various cable diameters
- Without blades
- No exposed metal parts

Description	Order No.	Length	Weight
Engineers Pliers ISOplus	1109 1	180 mm	134 g



Telephone Pliers with Straight Jaws 2K

- For cutting soft and medium hard wires
- Toothed gripping surface

Description	Order No.	Length	Weight
Telephone Pliers 2K	1103 160	160 mm	170 g
Telephone Pliers 2K	1103 200	200 mm	208 g



INSULATING HANDTOOLS

Insulating Telephone Pliers ISOplus

- Gripping surface toothed
- Thin head for operation in restricted places
- No exposed metal parts

Description	Order No.	Length	Weight
Telephone Pliers ISOplus	1109 5	200 mm	100 g

INSULATED PLIERS



Telephone Pliers with Bent Jaws 2K

- For cutting soft and medium hard wires
- Toothed gripping surface

Description	Order No.	Length	Weight
Telephone Pliers 2K	1104 160	160 mm	164 g
Telephone Pliers 2K	1104 200	200 mm	206 g



Flat Nose Pliers 2K

- Toothed gripping surface

Description	Order No.	Length	Weight
Flat nose Pliers 2K	1106 160	160 mm	170 g



Round Nose Pliers 2K

- Toothed gripping surface

Description	Order No.	Length	Weight
Round nose Pliers 2K	1107 160	160 mm	170 g



Pipe Wrench 2K

- Adjustable (6 different positions)
- Tempered steel / shock-proved soft insulation

Description	Order No.	Length	Weight
Pipe Wrench 2K	1110 250	240 mm	398 g



Wire Stripper

- With locking screw and opening spring
- For cables from 0.75 to 6mm²

Description	Order No.	Length	Weight
Wire Stripper	1105 160	180 mm	190 g



Insulated Pincers

- Hardened, gripping surface toothed
- Dip insulation
- Professional multi-coated

Description	Order No.	Length	Weight
Straight Insulated Pincers	1118 46	145 mm	50 g
Straight Insulated Pincers	1118 01	210 mm	83 g
Curved Insulated Pincers	1118 45	145 mm	50 g
Curved Insulated Pincers	1118 00	210 mm	79 g

INSULATED CUTTING PLIERS



Side Cutter 2K

- Very slim design with dropped forged head
- For cutting hard and soft wire
- Blades induction hardened
- High cutting performance
- Two component impact resistant insulated handles

Description	Order No.	Length	Weight
Diagonal Cutting Pliers 2K	1102 160	160 mm	208 g



Cable Cutter D17

APPLICATION RANGE	max. 50 mm ²
SUGGESTED APPLICATION	Copper and Aluminium

- High cutting capacity for the smallest dimension
- With adjustable screw joint
- Special tool steel with chrome finish
- Handles of impact resistant plastic in 2-component-design
- Jaw opening: 17 mm

Description	Order No.	Length	Weight
Cable Cutter D17	1602 160	160 mm	218 g



Cable Cutter D15 ISOplus

APPLICATION RANGE	max. 50 mm ²
SUGGESTED APPLICATION	Copper and Aluminium

- High cutting capacity for the smallest dimension

Description	Order No.	Length	Weight
Cable Cutter D15 ISOplus	1109 4	160 mm	218 g



Cable Cutter D22

APPLICATION RANGE	∅ 25 mm / 80 mm ²
SUGGESTED APPLICATION	Copper and Aluminium

- Two - stages cutting for up to 25 mm diameters conductors
- High cutting capacity on second stage
- Easy and clean cut with single hand use
- With adjustable screwing joint
- Special steel with chrome finish
- Handles of shock-proof plastic in 2-component-design

Description	Order No.	Length	Weight
Cable Cutter D22	1602 200	200 mm	345 g



Insulated Electrician's Shears

- Adjustable screwjoint
- High cutting performance
- Surface treatment: burnished and polished
- 2-component-handles

Description	Order No.	Length	Weight
Insulated Electrician Shears	1603 1	180 mm	100 g

Cable Cutter and Crimper Electrician Scissor 2K

- To cut Cu/Al cables up to 50 mm²
- With slot to crimp insulated or not insulated end sleeves from 0,5 to 4 mm²
- Ergonomical and extremely robust
- Loose-free screw/pin hinge
- 2-component-handles
- With special Safetybox

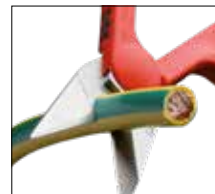


Description	Order No.	Blade	Length
Scissors with Safetybox	16020-F1	straigh	160 mm

Attention: Not suitable for work under voltage



Special blade design:
to cut and strip cables



To cut Cu/Al cables up to
50 mm²



Special slot to crimp



Special Electrician's Scissors 2K

- Ergonomical and extremely robust
- High cutting performance, optimized tothing
- Loose-free screw/pin hinge
- 2-component-handles

Description	Order No.	Blade	Length
Scissors with Safetybox	1601 4	straigh	140 mm

Attention: not suitable for work under voltage



Safetybox for INTERCABLE Electrician Scissors

- Suitable for all intercable scissors
- With belt safety clip

Description	Order No.	Blade	Length
Safetybox	1602 9	-	120 mm

INSULATED KNIVES



- Universal cutting blade



Universal Knife with Clappable Blade Protection

- 1000V insulated tool
- With replaceable standard blade (thickness 0,65mm)
- Made of shock-proof material

Description	Order No.	Blade	Length
Cable Knife	AV3910	interch. 50 mm	185 mm
Spare Blade	AV3911	-	50 mm



- Special stripping blade shape
- No cutting of conductor wires



Cable Stripping Knife with Clappable Blade Protection

- 1000V insulated tool
- With replaceable solid blade and insulated blade-back
- Made of shock-proof material

Description	Order No.	Blade	Length
Cable Knife	AV3920	interch. 50 mm	185 mm
Spare Blade	AV3921	-	50 mm



- No cutting of conductor wires
- No short circuits
- No wear of blade sharpening



INSULATING HANDTOOLS

Special Cable Stripping Knife with Ceramic Blade

- 1000V insulated tool
- With clappable blade protection
- High cutting capacity
- No exposed metal parts

Description	Order No.	Blade	Length
Cable Knife	AV3930	fixed 46 mm	185 mm

No replacing blade



Cable Stripping Knife with Safety Cap

- Special blade with guide blade prevents damage of conductor strands
- For removal of insulation and sheath
- Blade and back sharpened
- Blade of tempered stainless steel
- Insulation of tough non-brittle plastic

Description	Order No.	Blade	Length
Cable Knife	2887 00	fixed 47 mm	175 mm



1000V
IEC 60900

Insulated Hole Cutter

- Insulation is pierced at a 4 mm diameter and removed
- Gives a safe measuring point
- Lowers risk regarding misreadings and damage to testing device

Description	Order No.	Length	Weight
Insulated Hole Cutter	2843 00	200 mm	90 g



1000V
IEC 60900

Insulated Cable Sheath Saw

- For steel strip armoured cable
- Adjustable stopper
- Replaceable saw-blade
- Coarse toothed saw-blade for soft materials
- Fine toothed saw-blade for sheet metal cutting, saw-blade no. 430805 - 24 teeth fine
- On demand alternatively saw-blade 14 teeth can be supplied

Description	Order No.	Length	Weight
Cable Sheat Saw (24 teeth, fine)	4303 02	250 mm	140 g
↳ Saw-Blade (14 teeth, coarse)	4308 01	120 mm	6 g
↳ Saw-Blade (24 teeth, fine)	4308 05	120 mm	6 g



1000V
IEC 60900

Hacksaw

WIDTH OF BLADE	5 mm
THICKNESS OF BLADE	0,80 mm

- Made of flat steel 10 x 5 mm, galvanized
- For 148 mm saw-blades
- With insulated rotary handle for blade tension
- Insulation of soft, non-brittle plastic

Description	Order No.	Length	Weight
Hacksaw	4242 00	280 mm	230 g
↳ Spare Saw-Blade	4330 10	150 mm	3 g

Attention: Not suitable for work under voltage



1000V
IEC 60900

Hacksaw

WIDTH OF BLADE	13 mm
THICKNESS OF BLADE	0,63 mm

- With insulated wing bolt for blade tension
- Insulation of soft, non-brittle plastic

Description	Order No.	Length	Weight
Hacksaw / Saw-Blade 4210 00	4243 00	470 mm	660 g
↳ Blade 22/32 teeth width 13mm, thickn. 0,63 mm	4210 00	300 mm	17 g
↳ Blade 18 teeth width 13mm, thickn. 0,63 mm	4210 16	300 mm	17 g
↳ Blade double-sided 22/32 teeth width 25mm, thickn. 0,8 mm	4219 20	300 mm	40 g

Attention: Not suitable for work under voltage

THE QUALITY AND THE UNIQUE INTERCABLE DESIGN

This new series of SLIM Screwdrivers is the result of extensive studies performed in cooperation with numerous electrical installers



Standard:
VDE 0682 / 201

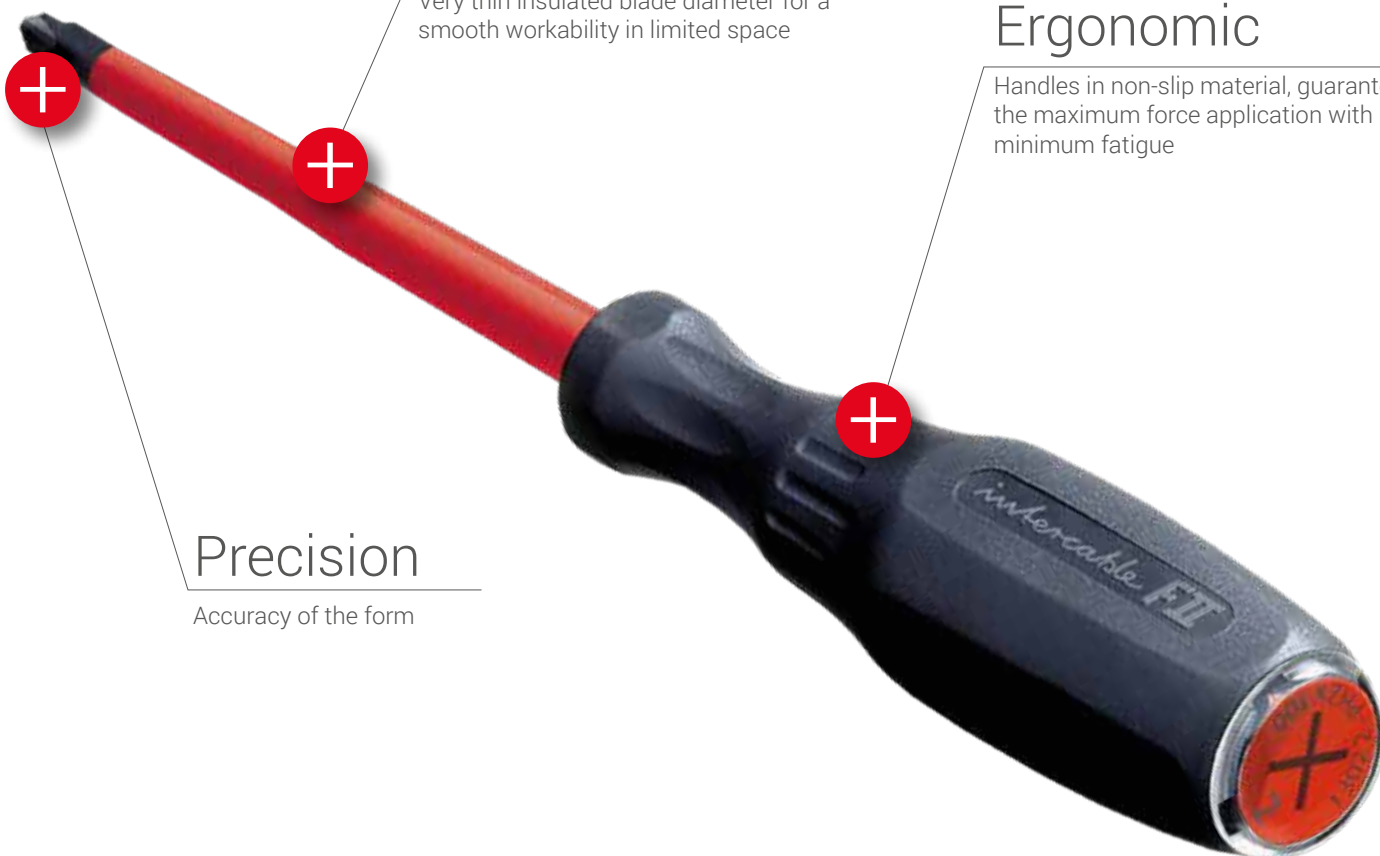


SLIM

Very thin insulated blade diameter for a smooth workability in limited space

Ergonomic

Handles in non-slip material, guarantees the maximum force application with minimum fatigue

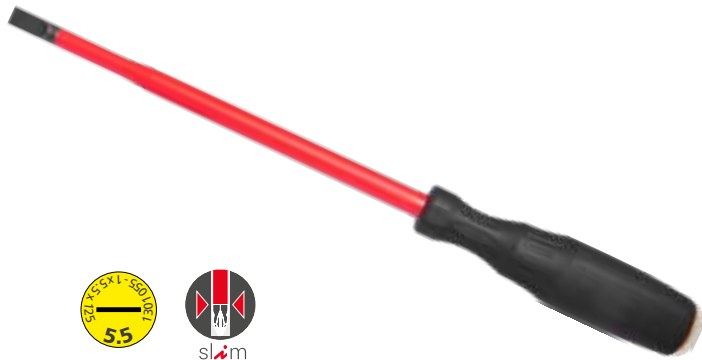


Identification lens for an easy choice of the proper screwdriver

Color codification:

		For slotted head screws yellow			For sherical hex socket-head screws grey
		For "Philips"-head screws red			For TORX ® head screws blue
		For "Pozidriv"-head screws green			For combined "Philips"-head screws red / yellow
		For hex socket-head screws white			For combined "Pozidriv"-head screws green / yellow
		For hex-head screws violet	TORX ®		registered trademark of CAMCAR TEXTRON, Rockford, Illinois, USA

INSULATED SCREWDRIVERS



Screwdriver for Slotted Head Screws – FUTUR II




Blade in high resistance chromium-vanadium-molybdän-steel, hardened, with surface burnish protection

Description	Order No.	 mm	 mm	 mm	 mm
Screwdriver for Slotted Head Screws	1301 025	2,5	75	0,4	175
	1301 030	3,0	100	0,5	200
	1301 035 *	3,5	100	0,6	200
	1301 040 *	4,0	100	0,8	200
	1301 045 *	4,5	125	1,0	230
	1301 055 *	5,5	125	1,0	230
	1301 065 *	6,5	150	1,2	255
	1301 080	8,0	175	1,2	290
	1301 100	10,0	200	1,6	320



Screwdriver for "Philips" Screws – FUTUR II

Blade in high resistance chromium-vanadium-molybdän-steel, hardened, with surface burnish protection

Description	Order No.	 mm	 mm	 mm
Screwdriver for "Philips" Screws	1302 0	0	60	160
	1302 1 *	1	75	175
	1302 2 *	2	100	205
	1302 3	3	150	265
	1302 4	4	200	320



Screwdriver for "Pozidriv" Screws – FUTUR II




Blade in high resistance chromium-vanadium-molybdän-steel, hardened, with surface burnish protection

Description	Order No.	 mm	 mm	 mm
Screwdriver for "Pozidriv" Screws	1303 0	0	60	160
	1303 1 *	1	75	175
	1303 2 *	2	100	205
	1303 3	3	150	265



Combination Screwdriver "Philips" – FUTUR II

- For combined Slotted-/Intersecting slot Screws in electrical systems
- Blade in high resistance chromium-vanadium-molybdän-steel, hardened, with surface burnish protection

Description	Order No.	 mm	 mm	 mm
Comb. Screwdriver	1313 1 *	1	80	180
	1313 2 *	2	100	205



Combination Screwdriver "Pozidriv" – FUTUR II

- For combined Slotted-/Intersecting slot Screws in electrical systems
- Blade in high resistance chromium-vanadium-molybdän-steel, hardened, with surface burnish protection

Description	Order No.	 mm	 mm	 mm
Comb. Screwdriver	1314 1 *	1	80	175
	1314 2 *	2	105	205

INSULATED SCREWDRIVERS



Screwdriver for Hexagon Socket Screws – FUTUR II

Blade in high resistance chromium-vanadium-molybdän-steel, hardened, with surface burnish protection

Description	Order No.	mm	mm	mm
Screwdriver for Hexagon Socket Screws	1304 020	2	60	160
	1304 025	2,5	75	175
	1304 030	3	75	180
	1304 040	4	75	180
	1304 050	5	75	190
	1304 060	6	100	215
	1304 080	8	100	220



Ball-Point Screwdriver for Hexagon Socket Screws

Blade in high resistance chromium-vanadium-molybdän-steel, hardened, with surface burnish protection

Description	Order No.	mm	mm	mm
Ball-Point Screwdriver for Hexagon Socket Screws	1305 020	2	100	200
	1305 025	2,5	100	200
	1305 030	3	100	205
	1305 040	4	100	205
	1305 050	5	100	215
	1305 080	8	150	270



Screwdriver for Hexagon Screws – FUTUR II

Blade in high resistance chromium-vanadium-molybdän-steel, hardened, with surface burnish protection

Description	Order No.	mm	mm	mm
Screwdriver for Hexagon Screws	1306 040	4	125	225
	1306 050	5	125	225
	1306 055	5,5	125	225
	1306 060	6	125	230
	1306 070	7	125	230
	1306 080	8	125	230
	1306 090	9	125	230
	1306 100	10	125	240
	1306 110	11	125	240
	1306 120	12	125	240
	1306 130	13	125	240



TORX® Screwdriver – FUTUR II

Blade in high resistance chromium-vanadium-molybdän-steel, hardened, with surface burnish protection

Description	Order No.	mm	mm	mm
TORX®Screwdriver	1307 010	10	60	160
	1307 015	15	75	175
	1307 020	20	75	180
	1307 025	25	75	180
	1307 030	30	100	215

INSULATED SCREWDRIVERS



Screwdriver Set for Hexagon Screws

Description	Order No.	Dimensions
Screwdriver Set	1399 010	270 x 195 x 35mm

Equipment:

• size 4.....	1306 040
• size 5.....	1306 050
• size 5,5.....	1306 055
• size 6.....	1306 060
• size 7.....	1306 070
• size 8.....	1306 080
• size 9.....	1306 090
• size 10.....	1306 100
• size 11.....	1306 110
• size 12.....	1306 120
• size 13.....	1306 130



Screwdriver Set for Hexagon Socket Screws

Description	Order No.	Dimensions
Screwdriver Set	1399 011	290 x 165 x 35mm

Equipment:

• size 2.....	1304 020
• size 2,5.....	1304 025
• size 3.....	1304 030
• size 4.....	1304 040
• size 5.....	1304 050
• size 6.....	1304 060
• size 8.....	1304 080



Ball-Point Screwdriver Set for Hexagon Socket Screws

Description	Order No.	Dimensions
Screwdriver Set	1399 012	290 x 165 x 35mm

Equipment:

• size 2.....	1305 020
• size 2,5.....	1305 025
• size 3.....	1305 030
• size 4.....	1305 040
• size 5.....	1305 050
• size 8.....	1305 080



TORX® Screwdriver Set

Description	Order No.	Dimensions
Screwdriver Set	1399 013	290 x 165 x 35mm

Equipment:

• size 10.....	1307 010
• size 15.....	1307 015
• size 20.....	1307 020
• size 25.....	1307 025
• size 30.....	1307 030



Torque Screwdriver Set

Designed for accurate tightening of bolt connections with preset torque (slotted drive, Phillips and Pozidrive).

Description	Order No.	Dimensions
Torque Screwd. Set	1308 804	-

Technical Characteristics:

- Torque continually variable from 1 Nm to 5.0 with attached T-Handle
- View window with Torque-scale
- Release accuracy tolerance $\pm 6\%$ of the selected value
- Handle diameter adjusted to the particular torque range
- Colour-coded exchangeable with blades
- Insulation according EN/IEC60900
- Fix adjustable torque on request
- Range of application to -40°C

Equipment:

- Torque handle 1,0 - 5,0Nm13082
- Torque adjusting tool13089
- Blade slott. screw 0,8x4,0 mm1381040
- Blade slott. screws 1,0x5,5 mm1381055
- Blade for screwdriver PH size 113821
- Blade for screwdriver PH size 213822
- Blade for screwdriver PZ size 113831
- Blade for screwdriver PZ size 213832
- Blade for screwdriver SW3,01384030
- Blade for screwdriver SW4,01384040
- Slim Bit holder13088



Insulated Bits

- For combined Slotted-/Intersecting slot Screws in electrical systems
- To use with every electric drill

Description	Order No.	Dimensions
Insulated Bits	1399 014	-

Equipment:

- Combined Slotted-/Intersected Insulated Bit + - PH11332 1
- Combined Slotted-/Intersected Insulated Bit + - PH21332 2
- Combined Slotted-/Intersected Insulated Bit + - PZ11333 1
- Combined Slotted-/Intersected Insulated Bit + - PZ21333 2





INSULATED WRENCHES

INSULATED WRENCHES



1000V
IEC 60900

Insulated Adjustable Wrench

- Read off scale for jaw opening
- Hardened and tempered alloy steel
- Dip insulation
- Shockproof resin insulation
- Not recommended for working on live parts

Description	Order No.	Opening	Length	Weight
Adjustable wrench	1519 04	0 – 13 mm	110 mm	140 g
	1519 06	0 – 20 mm	130 mm	190 g
	1519 08	0 – 27 mm	210 mm	260 g
	1519 10	0 – 30 mm	260 mm	400 g
	1519 12	0 – 34 mm	310 mm	870 g
	1519 15	0 – 44 mm	360 mm	1230 g
	1519 18	0 – 53 mm	450 mm	1900 g

Insulated Open-End Wrench

- Hardened and tempered alloy steel
- Dip insulation
- Shockproof resin insulation



1000V
IEC 60900

Description	Order No.	Ⓜ Size	Length	Weight
Open-End Wrench	1513 06	6	76 mm	20 g
	1513 07	7	82 mm	20 g
	1513 08	8	96 mm	20 g
	1513 09	9	105 mm	24 g
	1513 10	10	110 mm	29 g
	1513 11	11	115 mm	33 g
	1513 12	12	130 mm	44 g
	1513 13	13	137 mm	48 g
	1513 14	14	140 mm	54 g
	1513 15	15	150 mm	58 g
	1513 16	16	160 mm	70 g
	1513 17	17	161 mm	84 g
	1513 18	18	163 mm	100 g
	1513 19	19	175 mm	105 g
	1513 20	20	172 mm	149 g
	1513 21	21	200 mm	159 g
	1513 22	22	200 mm	192 g
	1513 24	24	220 mm	242 g
	1513 27	27	242 mm	322 g
	1513 30	30	285 mm	343 g
1513 32	32	280 mm	500 g	
1513 34	34	280 mm	500 g	
1513 36	36	310 mm	575 g	

Insulated 12-Point Wrench

- Hardened and tempered alloy steel
- Dip insulation
- Shockproof resin insulation



Description	Order No.	Ⓜ Size	Length	Weight
12-point wrench	1613 06	6	146 mm	41 g
	1613 07	7	151 mm	50 g
	1613 08	8	159 mm	62 g
	1613 09	9	157 mm	68 g
	1613 10	10	179 mm	84 g
	1613 11	11	183 mm	90 g
	1613 12	12	195 mm	106 g
	1613 13	13	188 mm	113 g
	1613 14	14	197 mm	135 g
	1613 15	15	191 mm	160 g
	1613 16	16	218 mm	175 g
	1613 17	17	204 mm	205 g
	1613 18	18	236 mm	227 g
	1613 19	19	240 mm	296 g
	1613 20	20	250 mm	300 g
	1613 21	21	264 mm	305 g
	1613 22	22	255 mm	308 g
	1613 24	24	268 mm	422 g
	1613 27	27	290 mm	455 g
1613 30	30	272 mm	561 g	
1613 32	32	317 mm	646 g	
1613 34	34	322 mm	1060 g	
1613 36	36	306 mm	1060 g	

Insulated 90° Bent 12-Point Wrench

- Hardened and tempered alloy steel
- Dip insulation
- Shockproof resin insulation
- For nuts placed in hard-to-get-at positions



Description	Order No.	Ⓜ Size	Dimensions	Weight
90° bent 12-point wrench	1614 10	10	70 x 190 mm	100 g
	1614 12	12	70 x 195 mm	100 g
	1614 13	13	70 x 215 mm	180 g
	1614 14	14	80 x 245 mm	220 g
	1614 17	17	90 x 245 mm	240 g
	1614 18	18	90 x 245 mm	240 g
	1614 19	19	95 x 245 mm	240 g
	1614 20	20	100 x 250 mm	280 g
	1614 22	22	100 x 250 mm	280 g
	1614 24	24	100 x 250 mm	280 g
	1614 30	30	110 x 260 mm	470 g

INSULATED WRENCHES



Insulated Hex Socket T Wrench

- 200 mm Shank length
- Hardened and tempered alloy steel
- Dip insulation
- Shockproof resin insulation

Description	Order No.	Ⓜ Size	Dimensions	Weight
Hex socket T wrench 200 mm	1374 10	10	160 x 200 mm	310 g
Shank length	1374 11	11	160 x 200 mm	330 g
	1374 12	12	160 x 200 mm	350 g
	1374 13	13	160 x 200 mm	360 g
	1374 14	14	160 x 200 mm	440 g
	1374 16	16	160 x 200 mm	450 g
	1374 17	17	160 x 200 mm	450 g
	1374 18	18	160 x 200 mm	470 g
	1374 19	19	160 x 200 mm	510 g
	1374 20	20	160 x 200 mm	510 g
	1374 22	22	160 x 200 mm	520 g
	1374 24	24	160 x 200 mm	540 g



Insulated Hex Socket T Wrench Long

- 300 mm Shank length
- Hardened and tempered alloy steel
- Dip insulation
- Shockproof resin insulation

Description	Order No.	Ⓜ Size	Dimensions	Weight
Hex socket T wrench 300 mm	1384 10	10	160 x 300 mm	370 g
Shank length	1384 11	11	160 x 300 mm	380 g
	1384 12	12	160 x 300 mm	400 g
	1384 13	13	160 x 300 mm	420 g
	1384 14	14	160 x 300 mm	470 g
	1384 16	16	160 x 300 mm	520 g
	1384 17	17	160 x 300 mm	520 g
	1384 18	18	160 x 300 mm	560 g
	1384 19	19	160 x 300 mm	560 g
	1384 20	20	160 x 300 mm	600 g
	1384 22	22	160 x 300 mm	600 g
	1384 24	24	160 x 300 mm	660 g



Insulated Cross Wrench

- Hardened and tempered alloy steel
- Dip insulation
- Shockproof resin insulation

Description	Order No.	Ⓜ Size	Dimensions	Weight
Cross wrench	1214 01	10 11 14 17	140 x 140 mm	220 g
	1214 02	10 12 14 17	140 x 140 mm	220 g
	1214 03	11 12 13 17	140 x 140 mm	220 g
	1214 04	10 13 14 17	140 x 140 mm	230 g
	1214 05	11 13 14 17	140 x 140 mm	230 g
	1214 06	13 17 19 22	140 x 140 mm	340 g
	1214 07	14 17 19 22	140 x 140 mm	360 g
	1214 08	10 11 12 13	140 x 140 mm	200 g
	1214 09	10 11 13 17	140 x 140 mm	220 g

Insulated 90° Hex Wrench

- Hardened and tempered alloy steel
- Shockproof resin insulation



Description	Order No.	Ⓜ Size	Dimensions	Weight
90° hex wrench	1163 25	2,5	35 x 104 mm	30 g
	1163 03	3	35 x 104 mm	31 g
	1163 04	4	35 x 104 mm	34 g
	1163 05	5	35 x 106 mm	36 g
	1163 06	6	40 x 110 mm	46 g
	1163 08	8	45 x 120 mm	80 g
	1163 10	10	50 x 120 mm	125 g



Insulated 90° Hex Wrench Heavy Duty

- Hardened and tempered alloy steel
- Shockproof resin insulation



Description	Order No.	Ⓜ Size	Dimensions	Weight
90° hex wrench heavy duty	1165 05	5	35 x 150 mm	75 g
	1165 06	6	40 x 150 mm	88 g



Insulated Hex T Wrench Light-Weight

- Hardened and tempered alloy steel
- Shockproof resin insulation



Description	Order No.	Ⓜ Size	Dimensions	Weight
Hex T wrench Light-weight	1173 25	2,5	95 x 115 mm	80 g
	1173 03	3	95 x 115 mm	80 g
	1173 04	4	95 x 115 mm	80 g
	1173 05	5	95 x 115 mm	80 g
	1173 06	6	95 x 115 mm	90 g



Insulated Hex T Wrench Heavy Duty

- Hardened and tempered alloy steel
- Shockproof resin insulation



Description	Order No.	Ⓜ Size	Dimensions	Weight
Hex T wrench Heavy duty	1175 04	4	95 x 160 mm	105 g
	1175 05	5	95 x 160 mm	105 g
	1175 06	6	95 x 160 mm	110 g
	1175 08	8	95 x 160 mm	115 g
	1175 10	10	95 x 160 mm	120 g
	1175 13	13	95 x 160 mm	145 g



INSULATED WRENCHES



1000V
IEC 60900

Insulated Hex T Wrench Small

- Hardened and tempered alloy steel
- Shockproof resin insulation

Description	Order No.	Ⓜ Size	Dimensions	Weight
Hex T wrench Small	1179 73	5	70 x 120 mm	80 g



1000V
IEC 60900

Insulated Hex T Wrench Long

- Hardened and tempered alloy steel
- Shockproof resin insulation

Description	Order No.	Ⓜ Size	Dimensions	Weight
Hex T wrench Long	1179 72	5	90 x 200 mm	105 g
	1179 70	6	90 x 200 mm	105 g

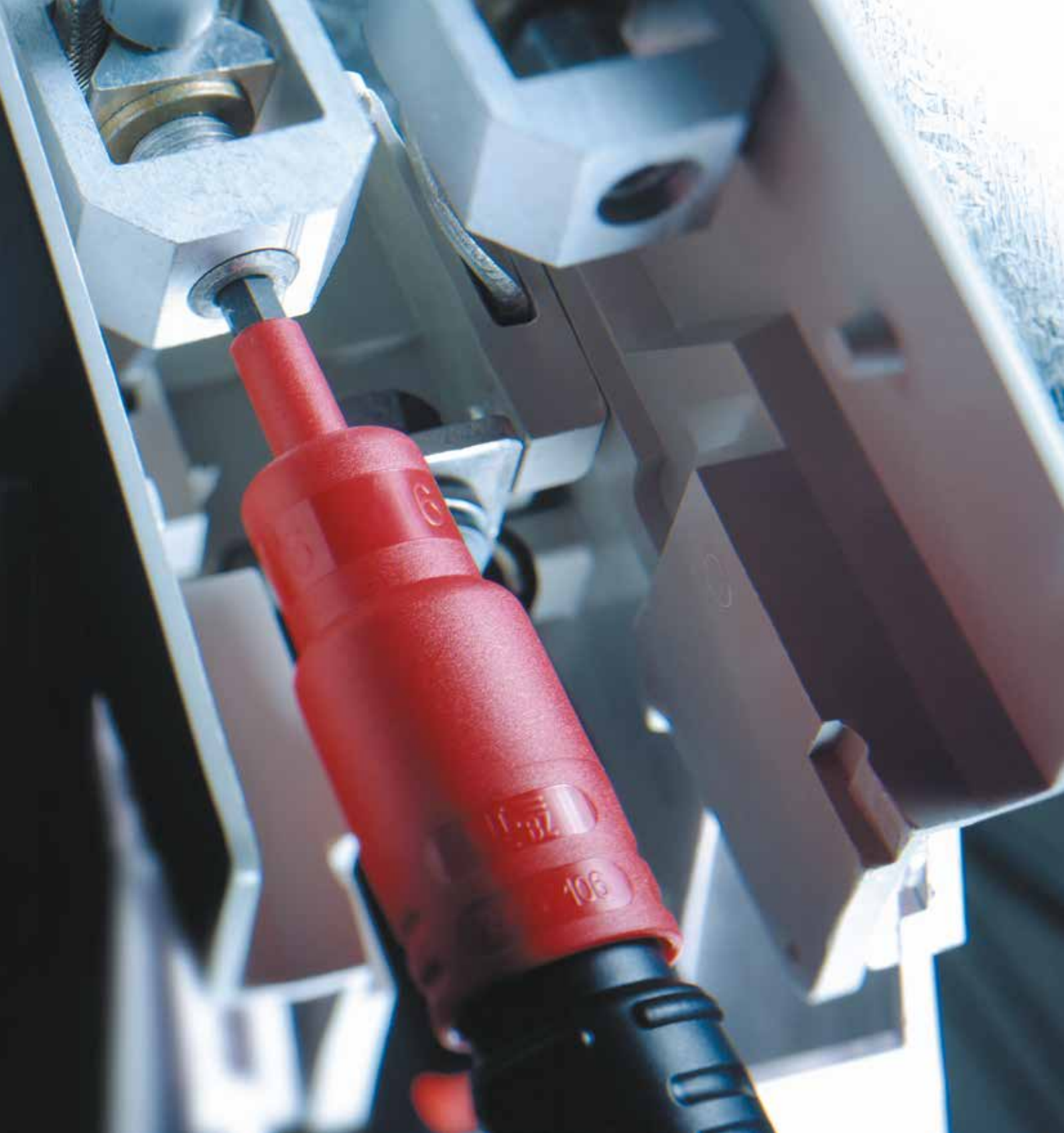


1000V
IEC 60900

Insulated Hex T Wrench Extra Long

- Hardened and tempered alloy steel
- Shockproof resin insulation

Description	Order No.	Ⓜ Size	Dimensions	Weight
Hex T wrench Extra Long	1173 35	5	90 x 240 mm	100 g
	1173 36	6	90 x 240 mm	115 g
	1173 38	8	90 x 240 mm	130 g
	1173 31	10	90 x 240 mm	115 g



MODULAR INSULATED HANDTOOLS

INTERCABLE MODULAR INSULATED HANDTOOLS 1000V



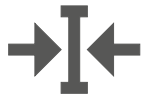
Tools realized in shockproof insulated material

Standards:

ISO 1174-1

DIN 3120

Tools are also suitable for very low temperature use: down to -40°C



Interchangeable

Guarantees compatibility with tools of various manufacturers, insofar as the inner square follows ISO Standard 117401-1



Square connection, size 1/2" or 3/8" in compliance with ISO 1174-1 Standards



Patented lock device (Intercable Locking System) that guarantees a coupling in compliance with IEC 60900 Standards for any bush carrying a square fitting according to ISO 1174 DIN 3120 Standards



Insulated T Wrench

- Lock device actuated by a single hand
- Two-component insulation with excellent grip handle
- Square connection in compliance with ISO1174 DIN 3120 Standards

Description	Order No.	Dimensions	Weight
T Wrench Size 3/8"	1501 2	210 x 160 mm	240 g
T Wrench Size 1/2"	1501 1	195 x 160 mm	340 g



DIN7436



Insulated Reversible Ratchet Wrench

- Lock device actuated by a single hand
- Two-component insulation with excellent grip handle
- Reverse commutator
- Square connection in compliance with ISO1174 DIN 3120 Standards

Description	Order No.	Dimensions	Weight
Ratchet Wrench Size 3/8"	1502 2	200 x 65 mm	250 g
Ratchet Wrench Size 1/2"	1502 1	260 x 75 mm	525 g



DIN7449



Insulated Cross Socket Tool for 4 Inserts

- Square ends made of alloyed and hardened steel, galvanically separated
- Insulation of non-brittle plastic
- For 8 - 22 mm SW standard socket pieces
- Inserts can be locked in place
- Expanding ball interlock system for inserts

Description	Order No.	Dimensions	Weight
Cross Socket Tool Size 3/8"	1214 00	150 x 150 mm	180 g
Cross Socket Tool Size 1/2"	1213 99	150 x 150 mm	340 g





Insulated Torque Wrench

- Fixed adjusted torque in compliance with EN26789 ($\pm 6\%$ tolerance from rated value)
- Lock device actuated by one hand
- Square connection in compliance with ISO1174 DIN3120 in sizes 3/8" and 1/2"

Description	Order No.	Torque	Dimensions	Weight
Torque Wrench Size 3/8"	1508 008	8 Nm	110 x 160 mm	400 g
	1508 010	10 Nm	140 x 160 mm	400 g
	1508 012	12 Nm	140 x 160 mm	400 g
	1508 015	15 Nm	140 x 160 mm	400 g
	1508 020	20 Nm	140 x 160 mm	400 g
	1508 025	25 Nm	140 x 160 mm	400 g
Torque Wrench Size 1/2"	AC3708	8 Nm	110 x 160 mm	560 g
	AC3710	10 Nm	140 x 160 mm	560 g
	AC3712	12 Nm	140 x 160 mm	560 g
	AC3715	15 Nm	140 x 160 mm	560 g
	AC3720	20 Nm	140 x 160 mm	560 g
	AC3725	25 Nm	140 x 160 mm	560 g

Insulated Torque Limiter (with Galvanic Separation)

- Torque limitation switch in compliance with EN 6789
- Lock device actuated by one hand
- Square connection in compliance with ISO1174 DIN3120 in sizes 3/8" and 1/2"
- Insulation according to EN 60900
- Galvanic isolation



Description	Order No.	Torque	Dimensions	Weight
Torque Limiter Size 3/8"	1509 007	7 Nm	37 x 152 mm	430 g
	1509 008	8 Nm	37 x 152 mm	430 g
	1509 010	10 Nm	37 x 152 mm	430 g
	1509 012	12 Nm	37 x 152 mm	430 g
	1509 015	15 Nm	37 x 152 mm	430 g
	1509 020	20 Nm	37 x 152 mm	430 g
	1509 025	25 Nm	37 x 152 mm	430 g
	Torque Limiter Size 1/2"	AC3807	7 Nm	37 x 154 mm
AC3808		8 Nm	37 x 154 mm	460 g
AC3810		10 Nm	37 x 154 mm	460 g
AC3812		12 Nm	37 x 154 mm	460 g
AC3815		15 Nm	37 x 154 mm	460 g
AC3820		20 Nm	37 x 154 mm	460 g
AC3825		25 Nm	37 x 154 mm	460 g

Insulated Adjustable Torque Ratchet

- Made of alloyed and hardened steel
- Anticlockwise rotation without limitation
- Adjustable torque
- Professional multi-coated insulation
- When adjusted setting is achieved, the ratchet head drops sideways, which can be felt and heard
- Please observe operating instructions
- Suitable for all types of screwdriver heads
- Adjustment tolerance can be $\pm 10\%$ of the nominal value



Description	Order No.	Torque	Dimensions	Weight
Torque Ratchet Size 3/8"	1319 37	10-50 Nm	75 x 280 mm	700 g
	1319 38	10-50 Nm	75 x 350 mm	900 g
Torque Ratchet Size 1/2"	1319 11	10-50 Nm	75 x 280 mm	700 g
	1319 12	10-50 Nm	75 x 350 mm	1000 g
	1319 31	30-130 Nm	75 x 465 mm	1300 g

Insulated Extension Bar

- Made of alloyed steel
- Fixing of inserts by expanding ball
- Expanding ball bearings by means of threaded pin
- Insulation of shock proof plastic
- Suitable for all types of screwdriver heads
- Patented lock device that guarantees a coupling in compliance with DIN IEC 60900, Standards for any brush carrying a square fitting according to ISO-DIS 1174-1/DIN 3120 Standard.

Description	Order No.	Length	Weight
Extension Bar Size 3/8"	1503 2125	125 mm	140 g
	1503 2250	250 mm	300 g
Extension Bar Size 1/2"	1503 1125	125 mm	200 g
	1503 1250	250 mm	400 g

Insulated Special Reducer 1/2" to 3/8"

- Reducer from 1/2" to 3/8"
- Lock device actuated by a single hand
- Square connection in compliance with ISO1174 DIN 3120 Standards

Description	Order No.	Length	Weight
Special Reducer	1503 1238	125 mm	145 g

Insulated Special Enlarger 3/8" to 1/2"

- Enlarger from 3/8" to 1/2"
- Dip Insulation

Description	Order No.	Length	Weight
Special Enlarger	1322 38	125 mm	100 g



DIN7434





DIN7448
DIN3124



fig. 1



Insulated 12-Point Female Socket 3/8"

- Greatly reduced outside diameter for use on screws in hard-to-get-at positions
- Square connection to ISO1174 DIN3120 Standards

Description	Order No.	Ⓜ Size	Length	Weight
12-Point Female Socket Size 3/8"	1352 06*	6	45 mm	22 g
	1352 07*	7	45 mm	23 g
	1504 208	8	45 mm	30 g
	1352 09*	9	45 mm	28 g
	1504 210	10	45 mm	31 g
	1504 211	11	45 mm	31 g
	1504 212	12	45 mm	32 g
	1504 213	13	45 mm	32 g
	1504 214	14	45 mm	35 g
	1352 15*	15	45 mm	38 g
	1504 216	16	45 mm	37 g
	1504 217	17	45 mm	40 g
	1504 218	18	45 mm	42 g
	1504 219	19	45 mm	45 g
	1352 20*	20	45 mm	70 g
	1352 21*	21	45 mm	83 g
	1504 222	22	45 mm	47 g
1352 24*	24	45 mm	112 g	

*Bush with Dip insulation (fig.1)

Extra Deep Insulated 12-Point Female Socket 3/8"

- Extra deep version - min. 70 mm
- Square connection to ISO1174 DIN3120 Standards
- Dip Insulation



Description	Order No.	Ⓜ Size	Length	Weight
Extra Deep 12-Point Female Socket Size 3/8"	1353 08	8	75 mm	50 g
	1353 09	9	75 mm	55 g
	1353 10	10	75 mm	63 g
	1353 11	11	75 mm	67 g
	1353 12	12	75 mm	70 g
	1353 13	13	75 mm	77 g
	1353 14	14	75 mm	85 g
	1353 15	15	75 mm	100 g
	1353 16	16	75 mm	113 g
	1353 17	17	75 mm	122 g
	1353 18	18	75 mm	130 g
	1353 19	19	75 mm	144 g
	1353 20	20	75 mm	150 g
	1353 21	21	75 mm	160 g
	1353 22	22	75 mm	185 g
	1353 23	23	75 mm	210 g
	1353 24	24	75 mm	250 g
1353 27	27	75 mm	315 g	

Long Insulated 12-Point Female Socket 3/8"

- Long version - 140 mm
- Square connection to ISO1174 DIN3120 Standards
- Dip Insulation



Description	Order No.	⓫ Size	Length	Weight
Long 12-Point Female Socket Size 3/8"	1351 10	10	140 mm	140 g
	1351 11	11	140 mm	148 g
	1351 12	12	140 mm	152 g
	1351 13	13	140 mm	161 g
	1351 14	14	140 mm	173 g
	1351 15	15	140 mm	180 g
	1351 16	16	140 mm	195 g
	1351 17	17	140 mm	205 g
	1351 18	18	140 mm	213 g
	1351 19	19	140 mm	223 g
	1351 20	20	140 mm	230 g
	1351 21	21	140 mm	238 g
1351 22	22	140 mm	250 g	

Extra Long Insulated 12-Point Female Socket 3/8"

- Extra Long version - 270 mm
- Square connection to ISO1174 DIN3120 Standards
- Dip Insulation



Description	Order No.	⓫ Size	Length	Weight
Extra Long 12-Point Female Socket Size 3/8"	1357 12	12	270 mm	287 g
	1357 13	13	270 mm	295 g
	1357 14	14	270 mm	300 g
	1357 17	17	270 mm	351 g
	1357 18	18	270 mm	370 g
	1357 19	19	270 mm	385 g
	1357 21	21	270 mm	420 g
	1357 22	22	270 mm	445 g
	1357 24	24	270 mm	480 g
	1357 27	27	270 mm	520 g



ISO691

Short Insulated Male Hex Socket 3/8"

- Short version - 50 mm
- Square connection to ISO1174 DIN3120 Standards

Description	Order No.	Ⓜ Size	Length	Weight
Short Male Hex Socket	1505 204	4	50 mm	28 g
Size 3/8"	1505 205	5	50 mm	29 g
	1505 206	6	50 mm	30 g
	1505 208	8	50 mm	33 g

Insulated Male Hex Socket 3/8"

- Normal version - 90 mm
- Square connection to ISO1174 DIN3120 Standards
- Dip Insulation

Description	Order No.	Ⓜ Size	Length	Weight
Male Hex Socket	1403 02	2	90 mm	27 g
Size 3/8"	1403 25	2,5	90 mm	52 g
	1403 03	3	90 mm	49 g
	1403 04	4	90 mm	50 g
	1403 05	5	90 mm	56 g
	1403 06	6	90 mm	60 g
	1403 07	7	90 mm	66 g
	1403 08	8	90 mm	78 g
	1403 09	9	90 mm	75 g
	1403 10	10	90 mm	103 g
	1403 11	11	90 mm	114 g
	1403 12	12	90 mm	124 g
	1403 13	13	90 mm	135 g
	1403 14	14	90 mm	118 g



Medium Long Insulated Male Hex Socket 3/8"

- Medium long version - 120 mm
- Square connection to ISO1174 DIN3120 Standards

Description	Order No.	Ⓜ Size	Length	Weight
Medium Long Male Hex Socket	1506 204	4	120 mm	49 g
Size 3/8"	1506 205	5	120 mm	54 g
	1506 206	6	120 mm	69 g
	1506 208	8	120 mm	70 g



ISO691

Long Insulated Male Hex Socket 3/8"

- Long version - 140 mm
- Square connection to ISO1174 DIN3120 Standards
- Dip Insulation

Description	Order No.	Ⓜ Size	Length	Weight
Long Male Hex Socket	1401 05	5	140 mm	63 g
Size 3/8"	1401 06	6	140 mm	73 g
	1401 08	8	140 mm	90 g
	1401 10	10	140 mm	151 g



Extra Long Insulated Male Hex Socket 3/8"

- Extra Long version - 265 mm
- Square connection to ISO1174 DIN3120 Standards
- Dip Insulation

Description	Order No.	Ⓜ Size	Length	Weight
Extra Long Male Hex Socket	1407 05	5	265 mm	89 g
Size 1/2"	1407 06	6	265 mm	109 g
	1407 08	8	265 mm	156 g
	1407 10	10	265 mm	219 g





Combi Set Series 3/8"

Equipment:

- Insulated T Wrench.....1501 2
- Insulated Reversible Ratchet Wrench.....1502 2
- Insulated Extension Bar 125 mm.....1503 2125
- Insulated Extension Bar 250 mm.....1503 2250
- Insulated 12-Point Female Sockets 8-10-13-14-17-19-22.....1504 2...
- Short Insulated Male Hex Sockets 4-5-6-8.....1505 2...
- Resin case.....1588 001

Description	Order No.	Dimensions	Weight
Combi Set	1598 001	275 x 65 x 210 mm	1,5 kg



Basis Ratchet Set Series 3/8"

Equipment:

- Insulated Reversible Ratchet Wrench.....1502 2
- Insulated 12-Point Female Sockets 8-10-13-17-19-22.....1504 2...
- Medium Long Insulated Male Hex Sockets 4-5-6.....1506 2...
- Resin case.....1588 002

Description	Order No.	Dimensions	Weight
Basis Ratchet Set	1598 002	225 x 50 x 180 mm	1,0 kg



Basis T Wrench Set Series 3/8"

Equipment:

- Insulated T Wrench.....1501 2
- Insulated 12-Point Female Sockets 10-13-14-17-19-22.....1504 2...
- Short Insulated Male Hex Sockets 5-6-8.....1505 2...
- Medium Long Insulated Male Hex Sockets 5-6.....1506 2...
- Resin case.....1588 002

Description	Order No.	Dimensions	Weight
Basis T Wrench Set	1598 004	275 x 65 x 210 mm	1,0 kg



Torque Wrench Set Series 3/8"

Equipment:

- Insulated Torque Wrench T 8-10-15Nm.....1508 0...
- Medium Long Insulated Male Hex Sockets 4-5-6.....1506 2...
- Resin case.....1588 009

Description	Order No.	Dimensions	Weight
Torque Wrench Set	1598 009	275x 65 x 210 mm	2,0 kg



Torque Wrench Set Series 3/8" Reduced

Equipment:

- Insulated Torque Wrench T 20Nm.....1508 020
- Short Insulated Male Hex Socket 8.....1505 208
- Insulated 12-Point Female Socket 13.....1504 213
- Resin case.....1588 010

Description	Order No.	Dimensions	Weight
Torque Wrench Set red.	1598 010	192 x 40 x 140 mm	0,6 kg

Insulated 12-Point Female Socket 1/2"

- Greatly reduced outside diameter for use on screws in hard-to-get-at positions
- Square connection to ISO1174 DIN3120 Standards



DIN7448
DIN3124



fig. 1



Description	Order No.	Ⓜ Size	Length	Weight
12-Point Female Socket Size 1/2"	1354 08*	8	55 mm	53 g
	1354 09*	9	55 mm	53 g
	1504 110	10	55 mm	55 g
	1504 111	11	55 mm	56 g
	1504 112	12	55 mm	57 g
	1504 113	13	55 mm	58 g
	1504 114	14	55 mm	59 g
	1354 15*	15	55 mm	70 g
	1354 16*	16	55 mm	74 g
	1504 117	17	55 mm	63 g
	1354 18*	18	55 mm	82 g
	1504 119	19	55 mm	71 g
	1354 20*	20	55 mm	116 g
	1354 21*	21	55 mm	127 g
	1504 122	22	55 mm	87 g
	1354 23*	23	55 mm	140 g
	1504 124	24	55 mm	98 g
1354 25*	25	55 mm	180 g	
1354 26*	26	55 mm	180 g	
1504 127	27	55 mm	121 g	
1354 30*	30	55 mm	252 g	
1504 132	32	55 mm	162 g	
1304 34*	34	55 mm	300 g	

*Bush with Dip insulation (fig.1)

Extra Deep Insulated 12-Point Female Socket 1/2"

- Extra deep version - 95 mm
- Square connection to ISO1174 DIN3120 Standards
- Dip Insulation



Description	Order No.	Ⓜ Size	Length	Weight
Extra Deep 12-Point Female Socket Size 1/2"	1355 08	8	95 mm	102 g
	1355 09	9	95 mm	105 g
	1355 10	10	95 mm	118 g
	1355 11	11	95 mm	120 g
	1355 12	12	95 mm	123 g
	1355 13	13	95 mm	127 g
	1355 14	14	95 mm	134 g
	1355 15	15	95 mm	140 g
	1355 17	17	95 mm	170 g
	1355 18	18	95 mm	188 g
	1355 19	19	95 mm	204 g
	1355 20	20	95 mm	210 g
	1355 22	22	95 mm	226 g
	1355 23	23	95 mm	241 g
	1355 24	24	95 mm	270 g
	1355 26	26	95 mm	300 g
	1355 27	27	95 mm	337 g
1355 30	30	95 mm	390 g	
1355 32	32	95 mm	423 g	

Long Insulated 12-Point Female Socket 1/2"

- Long version - 140 mm
- Square connection to ISO1174 DIN3120 Standards
- Dip Insulation



Description	Order No.	Ⓜ Size	Length	Weight
Long 12-Point female socket Size 1/2"	1356 10	10	140 mm	230 g
	1356 14	14	140 mm	253 g
	1356 17	17	140 mm	302 g
	1356 19	19	140 mm	312 g
	1356 22	22	140 mm	360 g
	1356 24	24	140 mm	403 g
	1356 27	27	140 mm	484 g
	1356 30	30	140 mm	510 g
	1356 32	32	140 mm	560 g



Extra Long Insulated 12-Point Female Socket 1/2"

- Extra Long version - 270 mm
- Square connection to ISO1174 DIN3120 Standards
- Dip Insulation

Description	Order No.	Ⓜ Size	Length	Weight
Extra long 12-Point female socket Size 1/2"	1358 13	13	270 mm	457 g
	1358 14	14	270 mm	480 g
	1358 17	17	270 mm	530 g
	1358 19	19	270 mm	550 g
	1358 24	24	270 mm	680 g
	1358 30	30	270 mm	800 g
	1358 32	32	270 mm	840 g



DIN7448
DIN3124



fig. 1



ISO691



Insulated Male Hex Socket 1/2"

- Normal version - min. 85 mm
- Square connection to ISO1174 DIN3120 Standards

Description	Order No.	Ⓢ Size	Length	Weight
Male Hex Socket Size 1/2"	1505 104	4	85 mm	76 g
	1505 105	5	85 mm	78 g
	1505 106	6	85 mm	81 g
	1405 07*	7	90 mm	79 g
	1505 108	8	85 mm	84 g
	1505 110	10	85 mm	90 g
	1405 12*	12	90 mm	126 g
	1405 14*	14	90 mm	158 g

*Bush with Dip insulation (fig.1)

Long Insulated Male Hex Socket 1/2"

- Long version - 135 mm
- Square connection to ISO1174 DIN3120 Standards

Description	Order No.	Ⓢ Size	Length	Weight
Long Male Hex Socket Size 1/2"	1506 104	4	135 mm	83 g
	1506 105	5	135 mm	88 g
	1506 106	6	135 mm	95 g
	1506 108	8	135 mm	100 g
	1506 110	10	135 mm	107 g

Extra Long Insulated Male Hex Socket 1/2"

- Extra Long version - 265 mm
- Square connection to ISO1174 DIN3120 Standards
- Dip Insulation

Description	Order No.	Ⓢ Size	Length	Weight
Extra Long Male Hex Socket Size 1/2"	1408 05	5	265 mm	122 g
	1408 06	6	265 mm	143 g
	1408 08	8	265 mm	143 g
	1408 10	10	265 mm	185 g



Combi Set Series 1/2"

Equipment:

- Insulated T Wrench.....1501 1
- Insulated Reversible Ratchet Wrench.....1502 1
- Insulated Extension Bar 125 mm.....1503 1125
- Insulated Extension Bar 250 mm.....1503 1250
- Insulated 12-Point Female Sockets 10-13-14-17-19-22-24-271504 1...
- Insulated Male Hex Sockets 4-5-6-8-101505 1...
- Resin case1589 002

Description	Order No.	Dimensions	Weight
Combi Set	1599 002	330 x 75 x 270 mm	3.1kg



Basis Ratchet Set Series 1/2"

Equipment:

- Insulated Reversible Ratchet Wrench.....1502 1
- Insulated 12-Point Female Sockets 10-13-17-19-22-24.....1504 1...
- Insulated Male Hex Sockets 4-5-6.....1505 1...
- Resin case1589 005

Description	Order No.	Dimensions	Weight
Basis Ratchet Set	1599 005	275 x 65 x 210 mm	1,6 kg



Basis T Wrench Set Series 1/2"

Equipment:

- Insulated T Wrench.....1501 1
- Insulated 12-Point Female Sockets 10-13-14-17-19-22.....1504 1...
- Insulated Male Hex Sockets 5-6-8.....1505 1...
- Long Insulated Male Hex Sockets 5-6.....1506 1...
- Resin case1589 001

Description	Order No.	Dimensions	Weight
Basis T Wrench Set	1599 001	275 x 65 x 210 mm	1,5 kg



Torque Wrench Set Series 1/2"

Equipment:

- Insulated Torque Wrench T 8-10-15Nm.....AC37...
- Long Insulated Male Hex Sockets 4-5-6.....1506 1...
- Resin case1589 001

Description	Order No.	Dimensions	Weight
Torque wrench Set	AV3755	275 x 65 x 210 mm	2,0 kg



Torque Wrench Set Series 1/2" Reduced

Equipment:

- Insulated Torque Wrench T 20NmAC3720
- Insulated Male Hex Socket 81505 108
- Insulated 12-Point Female Socket 13.....1504 113
- Resin case1588 010

Description	Order No.	Dimensions	Weight
Torque Wrench Set red.	AV3760	192 x 40 x 140 mm	0,7 kg

ALIGNMENT TOOL FOR SECTOR CABLE

1000V
IEC 60900



Alignment Tool for Sector Cable

- Insulation of non-brittle plastic
- To align 3 or 4 strand sectoral conductor
- Used with INTERCABLE insulated T-Wrenches (15011, 15012) or Ratched Wrenches (15021, 15022)
- Other sizes on request

Description	Order No.	Cross Section	Length	Weigth
Alignment Tool Size 3/8"	1320 95	95 - 150	75 mm	80 g
	1321 85	185 - 240	83 mm	140 g
	1320 30	300	83 mm	140 g
Alignment Tool Size 1/2"	1320 96	95 - 150	75 mm	80 g
	1321 86	185 - 240	83 mm	140 g
	1320 31	300	83 mm	140 g



PERSONAL PROTECTIVE EQUIPMENT



UNI EN 340:2004
UNI EN 11612/09 A1B1C1
UNI EN 1149-5:2008
IEC 61482-2/09
IEC 61482-1-2/08

Electric Arc Flame and Heat Protection Clothing 7kA

The electric arc protection clothing are usable in low voltage areas in order to protect people against the danger of an electric arc.

- Tested and produced according following Norms:
UNI EN 340:2004
UNI EN 11612/09 A1B1C1
UNI EN 1149-5:2008
IEC 61482-2/09
IEC 61482-1-2/08
- Material: 87% cotton, 12% nylon, 1% antistatic fiber
- Colour: blue royal

Description	Order No.	Size	Weight
Electric Arc Flame and Heat Protection Safety Jacket	AI0301	44	690 g
	AI0302	46	750 g
	AI0303	48	950 g
	AI0304	50	980 g
	AI0305	52	860 g
	AI0306	54	900 g
	AI0307	56	930 g
	AI0308	58	1130 g
	AI0309	60	1150 g
	AI0310	62	990 g

Electric Arc Flame and Heat Protection Safety Trousers	AI0401	44	560 g
	AI0402	46	600 g
	AI0403	48	670 g
	AI0404	50	870 g
	AI0405	52	710 g
	AI0406	54	720 g
	AI0407	56	750 g
	AI0408	58	940 g
	AI0409	60	970 g
	AI0410	62	800 g

Other Sizes available on request



EN 345
EN 50321
VDE 0680 part 1

Insulated Electrical Safety Boots

- Tested and produced according to EN 345 / EN 50321
- Safety Boots with steel toe cap
- Legs and soles are resistant to oil, petrol, grease, alkaline solution and acid complying with VDE 0680 Part 1
- Colour: Shaft white, Sole: blue

Description	Order No.	Size	Weight
Electrical Safety Boots	6613 41	41	2,2 kg
	6613 42	42	2,3 kg
	6613 43	43	2,4 kg
	6613 44	44 / 45	2,5 kg
	6613 46	46	2,7 kg
	6613 47	47	2,8 kg

Insulated Electrical Safety Gloves

- Tested and produced according to EN 60903 / IEC 903, VDE 0682 part 311
- For work on live MV/LV parts
- Material: natural latex
- Length: 360mm
- Smooth inside/outside
- Color: beige



EN 60903 / IEC 903
VDE 0682 part 311

Description	Order No.	Class	Operat. Voltage	Test Voltage	Thickn.	Size
Safety Gloves class 00	AV4711	00	500 V	2.500 V	0.5 mm	8
	AV4712	00	500 V	2.500 V	0.5 mm	9
	AV4713	00	500 V	2.500 V	0.5 mm	10
	AV4714	00	500 V	2.500 V	0.5 mm	11
Safety Gloves class 0	AV4720	0	1000 V	5.000 V	1 mm	8
	AV4721	0	1000 V	5.000 V	1 mm	9
	AV4722	0	1000 V	5.000 V	1 mm	10
	AV4723	0	1000 V	5.000 V	1 mm	11
Safety Gloves class 1	AV4731	1	7500 V	10.000 V	1.35 mm	9
	AV4732	1	7500 V	10.000 V	1.35 mm	10
	AV4733	1	7500 V	10.000 V	1.35 mm	11
Safety Gloves class 2	AV4741	2	17000 V	20.000 V	2 mm	9
	AV4742	2	17000 V	20.000 V	2 mm	10
Safety Gloves class 3	AV4750	3	26500 V	30.000 V	2.6 mm	9
	AV4751	3	26500 V	30.000 V	2.6 mm	10

Insulated Electrical Arc 7kA Protection Gloves

- Tested and produced according to norm EN 61482-1-2 / class II (resistant to electric arc 7kA/0,5 seconds)
- norm EN 60903 / class 0 (suitable to work under voltage 1000 V)
- VDE 0682 part 311
- Mechanical protection
- Material: natural latex
- Length: 360 mm
- Color: red



EN 60903 / IEC 903
EN 61482-1-2
VDE 0682 part 311

Description	Order No.	Class	Operat. Voltage	Test Voltage	Size
Gloves	AV4701	0	1000V - 7kA	5.000 V	8
Gloves	AV4702	0	1000V - 7kA	5.000 V	9
Gloves	AV4703	0	1000V - 7kA	5.000 V	10
Gloves	AV4704	0	1000V - 7kA	5.000 V	11

Safety Fuse (NH fuse) Withdrawal Glove

The fuse withdrawal glove is suitable for removing or fitting fuses or other pieces of equipment such as earthing and short circuit protection devices, dummy fuse components etc. To protect the operator's hand and lower part of the arm because they are under severe risk from the effects of power arcing

- For removal of NH fuses sizes 00 - 3



Description	Order No.	Dimensions	Weight
Wthdr. Glove	6590 01	385 x 220 mm	460 g
Wthdr. Glove long	6590 04	445 x 220 mm	460 g
↳ Leather Cover	6593 02	360 x 220 mm	210 g
↳ Safety Fuse Hold.	6595 00	40 x 125 mm	250 g



Shockproof Resin Container

- To contain and protect insulated gloves

Description	Order No.	Dimensions	Weight
Resin Container	AB4700	420 x 170 x 50 mm	350 g



Nylon Case

- To carry insulated gloves at the belt

Description	Order No.	Dimensions	Weight
Nylon Case	AB4710	380 x 170 x 40 mm	170 g



Pump for Testing Insulated Gloves

- To inflate insulating gloves and check for any leaks.
- Material: thermoplastic resin, light alloy, anti-oxidation metal or other equivalent material.

Description	Order No.	Dimensions	Weight
Pump	6318 00	140 x Ø130 mm	800 g



Anti-Perspiration Gloves

- Inner glove for insulating gloves to absorb skin perspiration
- Material: highly elastic interlock cotton
- Color: white

Description	Order No.	Size	Weight
Gloves	6310 00	Single	30 g





EN 420
EN 388

Protective Gloves

- Tested and produced according to EN 420 / EN 388
- Overglove to protect the insulating glove.
- Material: water-repellent silicone-treated grain leather

Description	Order No.	Size	Weight
Protective Gloves	AV4771	9	200 g
Protective Gloves	AV4772	10	200 g
Protective Gloves	AV4773	11	200 g



EN 420
EN 388

Light Leather Protective Gloves

- Tested and produced according to EN 420 / EN 388
- Protective glove for any mechanical work
- Material: water-repellent grain leather

Description	Order No.	Size	Weight
Protective Gloves	AV4780	8	100 g
Protective Gloves	AV4781	9	100 g
Protective Gloves	AV4791	10	150 g



EN 420
EN 388

Handling Gloves

- Tested and produced according to EN 420 / EN 388
- Good sensitivity and softness
- Material: nitrile covering

Description	Order No.	Size	Weight
Handling Gloves	7407 009	9	50 g
Handling Gloves	7407 010	10	50 g

HEAD AND FACE PROTECTION

CE  400V AC

EN 50362
EN 397



Safety Helmet for Electricians

- Tested and produced according to EN 50362 / EN 397
- Adjustable headband
- Material: polyethylene
- Color: white

Description	Order No.	Color	Weight
Helmet	AV9305	Adjustable	305 g



Visor for Safety Helmetelectrician's helmet

- Face screen to protect against electric arcs
- Shell: polycarbonate
- Protection against UV rays and short circuit

Description	Order No.	Dimensions	Weight
Visor	AV9306	395 x 240 mm	300 g

CE



Safety Helmet with Built-in Visor for Electricians

- Tested and produced according to EN 397, VDE 0680 part 1
- Protective helmet with built-in visor for working under live LV electrical systems
- Suitable for work on live parts
- Protection against electric arc
- Built-in visor: 1.2mm thick
- Adjustable headband from size 52 to 66 (rack-adjustment), neck strap with Velcro closure
- Helmet material: polyethylene
- Visor material: scratchproof polycarbonate
- Color: white, red

Description	Order No.	Color	Weight
White Helmet	AV9303W	white	740 g
Red Helmet	AV9303R	red	740 g

CE   400V AC

EN 397
VDE 0680 part 1



Safety Goggles

- Tested and produced according to EN 166 3-1.21F
- Light weight and comfortable
- Clear scratch-resistant spectacle glass
- Modern design

Description	Order No.	Weight
Safety Goggles	6660 00	27 g

CE

EN 166



Rubber Cover Material

- Tested and produced according to VDE 0680 part 1
- For temporary protection of live uninsulated components of LV systems
- Resistant to oils and acids
- Self-extinguishing
- Thickness: 1.6mm - 1.21g/cm² (44 Shore)
- Material: high quality neoprene
- Color: orange

Description	Order No.	Dimensions	Weight
Rubber Cover Material	AV4102	0.60 x 0.60m	0,7 kg
Rubber Cover Material	AV4104	1 x 1m	2,1 kg
Rubber Cover Material	AV4110	10 x 1m	20,6 kg
Rubber Cover Material	AV4111	1 x 1.20m	2,3 kg
Rubber Cover Material	AV4120	10 x 1.20m	25,1 kg

Other Dimensions available on request



Transparent Cover Material

- Tested and produced according to EN 1112 class 0
- Voltage test: 5 kV.
- Withstand test voltage 10 kV.
- Maximum absorbed current at the voltage test: 0,4 mA.
- Tensile test: 19,1 MPa.
- Resistant to oils and acids
- Self-extinguishing
- Thickness: 0,5 mm
- Material: high flexible Polymer
- Color: transparent

Description	Order No.	Dimensions	Weight
Transparent Cover Material	AV4102E	560 x 560 mm	0,3 kg
	AV4104E	910 x 910 mm	0,6 kg



EN 1112 class 0



Rubber Insulating Matting

- Tested and produced according to VDE 0680 part 1
- To insulate high-risk zones when making joints on LV-MV cables in trenches
- Non-slip surface
- Thickness: 4mm - 1.20g/cm² (53 Shore)
- Material: natural rubber or vulcanized synthesis rubber
- Color: gray

Description	Order No.	Dimensions	Weight
Insulating Matting	AV4301	1 x 1m	4,6 kg
Insulating Matting	AV4303	3 x 1m	12 kg
Insulating Matting	AV4310	10 x 1m	44 kg
Insulating Matting	AV4311	1 x 1.20m	5,3 g
Insulating Matting	AV4320	10 x 1.20m	54 g

Other Dimensions available on request



VDE 0680 part 1



50.000V

VDE 0303



30.000V / 45.000V



Safety Rubber Carpet 50.000V

- Tested and produced according to VDE 0303
- For permanent insulation in cabins or rooms that require a high degree of insulation
- Non-slip pavement side / ribbed non-slip support side (top)
- Thickness: 4,5mm – 1.65g/cm² (77 Shore)
- Material: natural rubber or vulcanized synthesis rubber
- Color: gray

Description	Order No.	Dimensions	Weight
Safety Carpet	AV4341	1 x 1m	5,6 kg
Safety Carpet	AV4350	10 x 1m	57 kg
Safety Carpet	AV4351	1 x 1.20m	6,8 kg
Safety Carpet	AV4360	10 x 1.20m	69 kg

Other Dimensions available on request

30kV/45kV Insulating Platform

- To insulate workers from the pavement when working
- Material: glass-fiber reinforced plastic resin
- Non-slip surface
- 30.000V/45.000V operating insulating level

Description	Order No.	Dimensions	Weight
Platform 30.000V	AV5000	500 x 500 x 260 mm	3,2 kg
Platform 45.000V	AV5001	500 x 500 x 310 mm	4,2 kg

Thermal Blanket

- Free of asbestos and other dangerous ingredients
- Composed 98% of silicon oxide (amorphous SiO₂)
- Usable for temperatures up to 1260°C
- Melting temperature above 1600°C
- Non-toxic product

Description	Order No.	Dimensions	Weight
Thermal Blanket	HSD1	1800 x 1800 mm	3,8 kg
Thermal Blanket	HSD2	1200 x 900 mm	1,3 kg
Thermal Blanket	HSD3	450 x 600 mm	0,3 kg



VDE 0680

Insulating Safety Clamp Short

- Tested and produced according to VDE 0680
- For fastening insulating sheets in cramped quarters
- Rubber inserts inside the jaws
- Material: shockproof thermoplastic resin
- Opening: 45 mm

Description	Order No.	Dimensions	Weight
Insulating Clamp	6514 09	140 x 85 mm	52 g



VDE 0680

Insulating Safety Clamp Small

- Tested and produced according to VDE 0680
- For fastening insulating sheets in cramped quarters
- Rubber inserts inside the beaks
- Material: shockproof thermoplastic resin
- Opening: 25 mm

Description	Order No.	Dimensions	Weight
Insulating Clamp	6514 06	80 x 40 mm	40 g



VDE 0680

Insulating Safety Clamp with Hook

- Tested and produced according to VDE 0680
- For fastening insulating sheets in cramped quarters
- Rubber inserts inside the beaks
- Material: shockproof thermoplastic resin
- Opening: 45 mm

Description	Order No.	Dimensions	Weight
Insulating Clamp	6514 02	165 x 130 mm	60 g



VDE 0680

Insulating Safety Clamp without Hook

- Tested and produced according to VDE 0680
- For fastening insulating sheets in cramped quarters
- Rubber inserts inside the beaks
- Material: shockproof thermoplastic resin
- Opening: 40 mm

Description	Order No.	Dimensions	Weight
Insulating Clamp	6514 07	175 x 110 mm	76 g



VDE 0680

Insulating Safety Clamp Large Opening

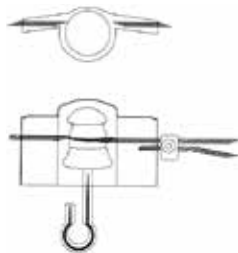
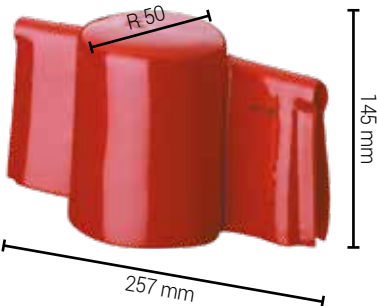
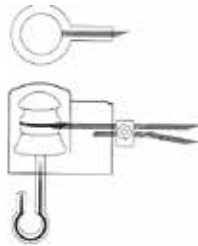
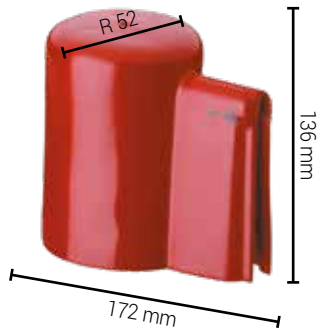
- Tested and produced according to VDE 0680
- For fastening insulating sheets in cramped quarters
- Rubber inserts inside the beaks
- Material: shockproof thermoplastic resin
- Opening: 65 mm

Description	Order No.	Dimensions	Weight
Insulating Clamp	6514 12	160 x 115 mm	70 g

CABLE INSULATION



EN 60529



VDE 0680

Protecting Tube

- Tested and produced according to EN 60529
- For temporary insulation of bare aerial LV lines carrying up to 1000V of live voltage
- Material: natural rubber or synthetic vulcanized elastomer
- Weight per meter: approx. 350g
- Color: red
- Other lengths on request

Description	Order No.	Length	Ø Conductor
Protective Shaped Profiles up to 10mm	AV4410	1m	up to 10mm
	AV4413	3m	up to 10mm
	AV4418	18m roll	up to 10mm
Protective Shaped Profiles up to 14mm	AV4510	1m	up to 14mm
	AV4513	3m	up to 14mm
	AV4518	18m roll	up to 14mm

Other Lengths available on request

Insulator Cap with Single Outlet

- Suitable for long-term operations
- Simple and robust design to slide over
- Material: flexible plastic resin
- Color: red

Description	Order No.	Version	Weight
Insulator Cap	AV4401	1 Outlet	350g

Other Insulator Caps available on request

Insulator Cap with Double Outlet

- Suitable for long-term operations
- Simple and robust design to slide over
- Material: flexible plastic resin
- Color: red

Description	Order No.	Version	Weight
Insulator Cap	AV4402	2 Outlets	450g

Other Insulator Caps available on request

Insulating Safety Caps

- Tested and produced according to VDE 0680
- To protect rigid cables
- Material: rigid thermoplastic resin
- Color: red

Description	Order No.	Ø	Length
Insulating Caps	AV4094	8 - 13 mm	60mm
	AV4095	13 - 20 mm	80mm



Push on Cover with Grip

- Tested and produced according to VDE 0680
- For temporary insulation of the ends of live LV single-pole cables
- Also suitable for protecting cables with cable terminals
- Material: flexible thermoplastic resin
- Color: red

Description	Order No.	Length	Opening	Suitable for	Weight
Push on Cover with Grip	6460 04	40 mm	10 mm	1 - 25 mm ²	4 g
	6460 06	60 mm	10 mm	6 - 35 mm ²	14 g
	6460 10	100 mm	10 mm	6 - 35 mm ²	21 g
	6460 15	100 mm	15 mm	10 - 50 mm ²	31 g
	6460 20	110 mm	20 mm	35 - 95 mm ²	40 g
	6460 30	130 mm	30 mm	95 - 185 mm ²	70 g
	6460 40	150 mm	40 mm	185 - 240 mm ²	135 g
	6460 50	185 mm	50 mm	240 - 400 mm ²	140 g
	6460 60	185 mm	60 mm	240 - 500 mm ²	220 g
	6460 70	210 mm	70 mm	300 - 500 mm ²	300 g
	6460 90	255 mm	90 mm	- 630 mm ²	550 g
	6461 20	240 mm	120 mm	- 800 mm ²	700 g



Push on Cover Conical

- Tested and produced according to VDE 0680
- For temporary insulation of the ends of live LV single-pole cables
- Also suitable for protecting cables with cable terminals
- Material: flexible thermoplastic resin
- Color: red

Description	Order No.	Length	Opening	Suitable for	Weight
Push on Cover Conical	6470 30	30 mm	10 mm	10 - 25 mm ²	10 g
	6450 06	50 mm	10 mm	10 - 25 mm ²	10 g
	6470 10	60 mm	10 mm	6 - 25 mm ²	15 g
	6450 00	100 mm	10 mm	10 - 35 mm ²	7 g
	6450 01	100 mm	20 mm	120 - 150 mm ²	19 g

Transparent Conical Push on Covers available on request



Insulating Safety Sleeve

- Tested and produced according to EN 57680, VDE 0680
- To protect ends of electric conductors
- Optimized holding force with the screw joint
- Material: Safety sleeve made out of flexible shock-resistant plastics
- Screw joint made out of a red transparent prim plastics
- Color: red

Description	Order No.	Ø	Length
Insulating Sleeve	AV4082	5 - 12 mm	117 mm
Insulating Sleeve	AV4083	12 - 21 mm	159 mm
Insulating Sleeve	AV4084	21 - 30 mm	190 mm

SAFETY KITS



Safety Bag with Tools

Equipment:

- 1 pair of insulated electrical safety gloves – size 10AV4722
- 1 pair of safety goggles.....6660 00
- 1 safety helmet with build in visor.....AV9303W
- 1 rubber insulating matting 1000 x 1000 x 4 mm.....AV4301
- 1 pair of anti-perspiration gloves6130 00
- 1 shockproof resin container.....AB4700

Description	Order No.	Dimensions	Weight
Safety Bag with Tools	AB7712	560 x 360 x 320 mm	ca. 7,7 kg
Safety Bag without Tools	AB7710	560 x 360 x 320 mm	ca. 1,7 kg

Optionals:

- 7 kA protection clothing (see page 42)
- 7 kA protection gloves (see page 43)

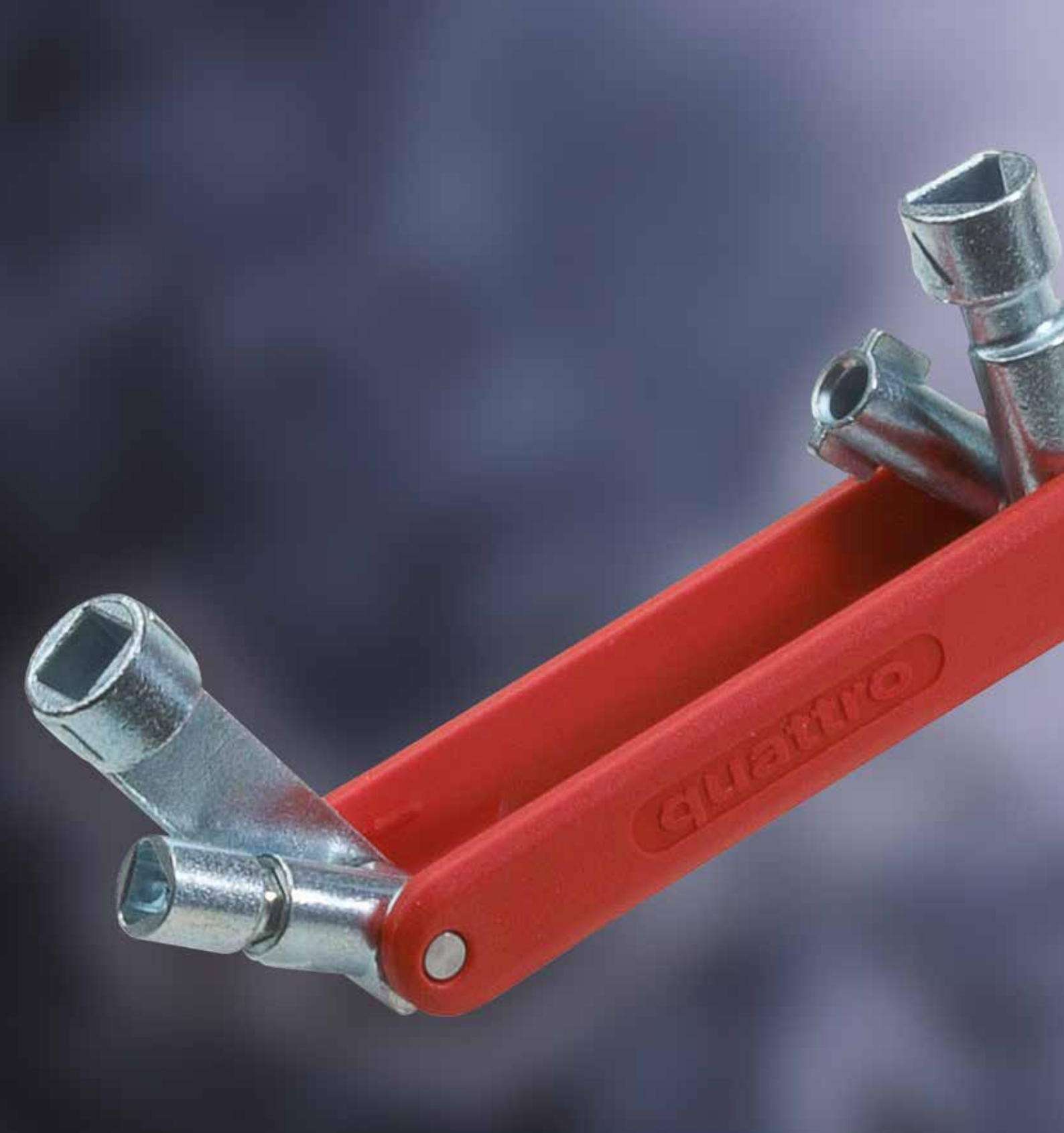


Bag with Tools to work on LV

Equipment:

- 1 transparent cover material 560 x 560 mm.....AV4102E
- 1 transparent cover material 910 x 910 mm.....AV4104E
- 8 insulating safety clamps.....6514 09
- 8 push on covers with grip, opening 15 mm.....6460 15
- 8 push on covers with grip, opening 20 mm.....6460 20
- 8 push on covers with grip, opening 30 mm.....6460 30
- 1 insulating mastic1033 74

Description	Order No.	Dimensions	Weight
Bag with Tools	AB7721	560 x 360 x 320 mm	ca. 6,1 kg
Bag without Tools	AB7720E	560 x 360 x 320 mm	ca. 1,7 kg



ACCESSORIES

ACCESSORIES



Clamp Device for Screw Connectors

Gives excellent clamping when screwing on screw connectors with diameters from 14 to 40mm.

Technical Characteristics:

- Can work on live parts with voltages up to 1000V AC and 1500V DC
- Vice clamp system
- Usable with insulated and non-insulated connectors
- Insulated in compliance with IEC 60900/IEC900 Standards
- Tool designed for very low temperature work, down to -40°C

Standards:

- IEC 60900
- IEC 900
- EN10020

Description	Order No.	Dimensions	Weight
Clamp Device	2201 3	192 x 65 x 64 mm	350 g

Set Clamp Device for Screw Connectors

Dotazione:

- Clamp Device.....2201 3
- Insulated Reversible Ratchet Wrench 1/2".....1502 1
- Insulated 12-Point Female Socket 13.....1504 113
- Insulated 12-Point Female Socket 17.....1504 117
- Insulated 12-Point Female Socket 19.....1504 119
- Insulated Male Hex Socket 5.....1505 105
- Insulated Male Hex Socket 6.....1505 106
- Insulated Male Hex Socket 8.....1505 108

Description	Order No.	Dimensions	Weight
Set Clamp Device	2201 0	192 x 140 x 40 mm	1,8 kg



Set EnerGrip

- Cable puller for cables Ø 3 - 12 mm

Description	Order No.	Dimensions	Weight
Set EnerGrip (4 pcs.)	AS8902	280 x 95 mm	230 g



Insulated Brush

- For cleaning and dusting
- Made of insulating material

Description	Order No.	Length	Weight
Brush 1" angled	5524 01	400 mm	60 mm
Brush 1 ½" angled	AV4820	400 mm	100 mm
Brush 2" angled	5524 03	410 mm	115 mm
Brush 1" plastic angled	5524 31	400 mm	60 mm
Brush 1 ½" plastic angled	AV4810	400 mm	70 mm
Brush 2" plastic angled	5524 33	400 mm	90 mm
Brush Head 1" angled	5524 11		10 mm
Brush Head 1 ½" angled	AV4825		20 mm
Brush Head 2" straight	5524 13		25 mm
Brush Head 1" angled	5524 21		80 mm
Brush Head 1 ½" angled	5524 22		70 mm
Brush Head 2" angled	5524 23		110 mm
Brush Case (440 mm x 70 mm)	5524 00		50 mm



Light Hammer

- Extremely strong interchangeable polyurethane heads
- Shockproof resin insulation

Description	Order No.	Head	Length	Weight
Light Hammer	4103 22	Ø 25mm	288 mm	200 g
Light Hammer	4103 35	Ø 35mm	300 mm	400 g



Sheath Spreader

- Reinforced polyamide material
- Lightweight model

Description	Order No.	Height	Dimensions	Weight
Sheath Spreader	6520 02	30 to 0mm	165 x 20 mm	43 g



Sheath Spreader

- Reinforced polyamide material
- Designed for assembly of branch terminals

Description	Order No.	Height	Dimensions	Weight
Sheath Spreader	6520 03	10 to 0mm	170 x 20 mm	100 g



Bordering Chisel

- For NKBA-Cable
- Tape 70 mm with 30 mm Radius
- Non brittle red plastic

Description	Order No.	Diameter	Length	Weight
Bordering Chisel	6540 00	Ø 25 mm	140 mm	63 g

ACCESSORIES



Angled Mirror

- Extended plastic handle
- Search mirror Ø 23 mm, flat

Description	Order No.	Handle	Length	Weight
Angled Mirror	1117 99	Ø 8,4 mm	285 mm	16 g



Welding Mirror

- Insulated, flexible shaft
- Mirror made of metal foil, mach and edges insulate

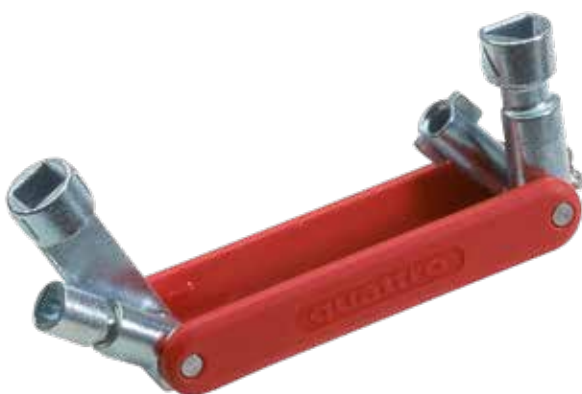
Description	Order No.	Joint	Length	Weight
Welding Mirror	5550 00	Ø 14,3 mm	510 mm	316 g
↳ Spare Mirror	5550 01			



Magnetic Lifter

- Insulated, flexible shaft
- For removing metal parts from installations








Description	Order No.	Joint	Length	Weight
Magnetic Lifter	1119 00	Ø 13,7 mm	510 mm	330 g



Universal Key

- Designed to use in opening and closing electric panels and the most common systems of closure.
- A magnetic attachment for ¼" bit allows utilisation of any insert existing in commerce.
- 5 different profiles of keys

Description	Order No.	Dimensions	Weight
Universal Key	QUATTRO	91 x 26 x 15 mm	95 g
Universal Key - D	QUATTRO-D	91 x 26 x 15 mm	95 g
Universal kKey - S	QUATTRO-S	91 x 26 x 15 mm	103 g

Order No.	Additional Bit	Standard Bits			
QUATTRO	 11,5 x 6 mm Triangular Key	 14 x 9 mm Triangular Key insert	 14 x 8 mm Square Key insert	 10 x 6,5 mm 6.3 Bit magnetic Attachment	 14 x 9 x 2 mm 2 x 14 Key Insert
QUATTRO-D	 10 x 7,4 x 2 mm Square Key				
QUATTRO-S	 10 x 7 mm Daimler Benz Key				



TOOL CASES AND EQUIPMENT



Belt Pouch "EuroMario"

Equipment:

1000V insulated tools (IEC 60900, IEC900, VDE0682-201)

- Engineers pliers 180 mm 2K1101 180
- Screwdriver for slotted head screws – 0,5 x 3 x 100 1301 030
- Screwdriver for slotted head screws – 0,8 x 4 x 100..... 1301 040
- Screwdriver for Philips screws PH 1 x 75 – PH 1 x 75.....1302 1

NOT insulated tools

- Special electricians' scissors 2K.....1601 2

Description	Order No.	Dimensions	Weight
EuroMario with Tools (red)	1912 2	110 x 220 x 65 mm	0,6 kg
EuroMario with Tools (black)	1913 2	120 x 230 x 70 mm	0,7 kg
EuroMario without Tools (red)	1912 0	110 x 220 x 65 mm	0,1 kg
EuroMario without Tools (black)	1913 0	120 x 230 x 70 mm	0,1 kg



Belt Pouch "IperMario"

Equipment:

1000V insulated tools (IEC 60900, IEC900, VDE0682-201)

- Engineers pliers 180 mm 2K1101 180
- Diagonal cutting nipper 2K.....1102 160
- Screwdriver for slotted head screws – 0,8 x 4 x 100..... 1301 040
- Screwdriver for slotted head screws – 1 x 5,5 x 1251301 055
- Screwdriver for Philips screws – PH 2 x 1001302 2
- Screwdriver for Pozidriv screws – PZ 2 x 1001303 2

NOT insulated tools

- Special electricians' scissors 2K.....1601 2
- Voltage tester 3 x 60 mm.....AV6104

Description	Order No.	Dimensions	Weight
IperMario with Tools	1915 2	245 x 245 x 50 mm	1,20 kg
IperMario without Tools	1915 0	245 x 245 x 50 mm	0,3 kg



Belt Pouch in Leather

Equipment:

1000V insulated tools (IEC 60900, IEC900, VDE0682-201)

- Engineers pliers 180 mm 2K 1101 180
- Screwdriver for slotted head screws – 0,5 x 3 x 100..... 1301 030
- Screwdriver for slotted head screws – 0,8 x 4 x 100..... 1301 040
- Screwdriver for slotted head screws – 1,2 x 6,5 x 150..... 1301 065
- Screwdriver for Philips screws – PH 1 x 75..... 1302 1
- Screwdriver for Philips screws – PH 2 x 100 1302 2
- Cable cutter D17 2K 1602 160

NOT insulated tools

- Special electricians' scissors 2K..... 1601 2
- Voltage tester 3 x 60 mm.....AV6104
- EnerGrip – cable pullerAV8902

Description	Order No.	Length	Weight
Belt Pouch with Tools	1914 2	200 x 100 x 200 mm	1,5 kg
Belt Pouch without Tools	1914 0	200 x 100 x 200 mm	0,7 kg

"EuroCompact" Tool Box

Equipment:

1000V insulated tools (IEC 60900, IEC900, VDE0682-201)

- Engineers pliers 180 mm 2K1101 180
- Telephone pliers with straight jaws 160mm 2K1103 160
- Screwdriver for slotted head screws – 0,5 x 3 x 100 1301 030
- Screwdriver for slotted head screws – 0,8 x 4 x 100 1301 040
- Screwdriver for slotted head screws – 1 x 5,5 x 1251301 055
- Screwdriver for slotted head screws – 1,2 x 6,5 x 1501301 065
- Screwdriver for Philips screws "Philips" – PH 1 x 751302 1
- Screwdriver for Philips screws "Philips" – PH 2 x 1001302 2
- Cable cutter D17 2K1602 160

NOT insulated tools

- Special electricians' scissors 2K1601 2
- EnerGrip - cable pullerAV8902
- Universal keyQUATTRO

Description	Order No.	Dimensions	Weight
Leather Box with Tools	1916 2	440 x 200 x 300mm	4,2 kg
Hard Top Box with Tools	1917 2	430 x 340 x 160mm	4,5 kg
Leather Box without Tools	1916 0	440 x 200 x 300 mm	3,0 kg
Hard Top Box without Tools	1917 0	430 x 340 x 160 mm	3,3 kg
Shoulder Strap (for Leather Box)	1919 9	-	0,2 kg
Other Tool Cases available on request			

"EUROPROFI" Tool Box

Equipment:

1000V insulated tools (IEC 60900, IEC900, VDE0682-201)

- Engineers pliers 180 mm 2K1101 180
- Screwdriver for slotted head screws – 0,5 x 3 x 100 1301 030
- Screwdriver for slotted head screws – 0,8 x 4 x 100 1301 040
- Screwdriver for slotted head screws – 1 x 5,5 x 1251301 055
- Screwdriver for slotted head screws – 1,2 x 6,5 x 1501301 065
- Screwdriver for Philips screws "Philips" – PH 1 x 751302 1
- Screwdriver for Philips screws "Philips" – PH 2 x 1001302 2
- Screwdriver for Pozidriv screws – PZ 1 x 751303 1
- Insulated scissors 2K1603 1
- Cable cutter D17 2K1602 160

NOT insulated tools

- Special electricians' scissors 2K1601 2
- Baby spirit level 7404 100
- EnerGrip - cable pullerAV8902
- Voltage tester – 3 x 65 mmAV6104

Description	Order No.	Dimensions	Weight
Leather Box with Tools	1918 2	440 x 200 x 360 mm	5,0 kg
Hard Top Box with Tools	1919 2	470 x 360 x 200 mm	6,2 kg
Leather Box without Tools	1918 0	440 x 200 x 360 mm	3,8 kg
Hard Top Box without Tools	1919 0	470 x 360 x 200 mm	5,0 kg
Shoulder Strap for Leather Box	1919 9	-	0,2 kg
Other Tool Cases available on request			





“ALU” Tool Box

Equipment:

1000V insulated tools (IEC 60900, IEC900, VDE0682–201)

- Screwdriver for slotted head screws – 4 x 100 1301 040
- Screwdriver for slotted head screws – 5,5 x 1251301 055
- Screwdriver for slotted head screws – 6,5 x 1501301 065
- Screwdriver for Philips screws – PH 1 x 751302 1
- Screwdriver for Philips screws – PH 2 x 1001302 2
- Screwdriver for Pozidriv screws – PZ 1 x 751303 1
- Screwdriver for Pozidriv screws – PZ 2 x 1001303 2
- Engineers pliers 180 mm 2K1101 180
- Cable cutter D17 2K1602 160
- Telephone pliers with straight jaws 1103 200

NOT insulated tools

- Special electricians' scissors 2K1601 2
- Voltage tester 3 x 65 mmAV6104
- Universal key QUATTRO
- Hammer 300 g7130 582
- Chisel 7130 008
- Pliers for tubes and nuts7101 237
- Spirit level 250 mm7211 440
- Baby spirit level 7404 100
- Flexometer 3m 7406 030
- Pocket saw "PUK"7402 150
- Hexagon screw set Pocketstar7401 208
- Universal knife7120 081

Description	Order No.	Dimensions	Weight
Alu Box with Tools	1928 1	485 x 380 x 200 mm	9,4 kg
Alu Box without Tools	1928 0	485 x 380 x 200 mm	6,3 kg
Other Tool Cases available on request			



1000 V Shockproof Resin Tool Kit

Equipment:

1000V insulated tools (IEC 60900, IEC900, VDE0682–201)

- Engineers pliers 180 mm AP0119N
- Telephone pliers with straight jaws 200 mm AP0420N
- Insulating Engineers pliers1108 1
- Cable cutter D17AP1017
- Insulated wire stripper 2,5-10 mmAE6200
- Screwdriver for slotted head screws – 3 x 75AC1501
- Screwdriver for slotted head screws – 4 x 100AC1502
- Screwdriver for slotted head screws – 5,5 x 150AC1504
- Screwdriver for slotted head screws – 8 x 150AC1506
- Screwdriver for Philips screws PH1AC1601
- Screwdriver for Philips screws PH2AC1602
- Screwdriver for Philips screws PH3AC1603
- Insulated T Wrench 1/2"1501 1
- Insulated 12-Point female sockets 10, 13, 14, 17, 17, 19, 221504 1...
- Insulated male hex sockets 5, 6, 8,1505 10..
- Long Insulated male hex sockets 5, 61506 10..
- 4 Insulated safety clamps 6514 09
- Screwdriver for hexagon sockets 2,5, 3, 4 1304 0...
- Rubber Cover Material 600 x 600AV4102

Description	Order No.	Dimensions	Weight
Hard Top Box with Tools	1950 1	480 x 360 x 235 mm	10,4 kg
Hard tTop Box without Tools	1950 0	480 x 360 x 235 mm	6,5 kg
Other Tool Cases available on request			

"NEW PROFESSIONAL" Tool Box

Equipment:

1000V insulated tools (IEC 60900, IEC900, VDE0682-201)

- Screwdriver for slotted head screws – 4 x 100 1301 040
- Screwdriver for slotted head screws – 5,5 x 1251301 055
- Screwdriver for slotted head screws – 6,5 x 1501301 065
- Screwdriver for Philips screws – PH 1 x 751302 1
- Screwdriver for Philips screws – PH 2 x 1001302 2
- Screwdriver for Pozidriv screws – PZ 1 x 751303 1
- Screwdriver for Pozidriv screws – PZ 2 x 1001303 2
- Engineers pliers 180mm 2K.....1101 180
- Cable cutter D17 2K1602 160
- Telephone pliers with straight jaws 1103 200

NOT insulated tools

- Special electricians' scissors 2K.....1601 2
- Gloves GRIP 7407 009
- Flexometer 3 m..... 7406 030
- Baby spirit level..... 7404 100
- Hexagon screw set Pocketstar7401 208
- Universal knife.....7120 081
- Voltage tester 3 x 65 mmAV6104
- Switch cabinet spanner ProfiKeyAV9312
- Pocket saw "PUK"7402 150
- Hammer 300 g.....7130 582
- Pliers for tubes and nuts.....7101 237

Description	Order No.	Dimensions	Weight
Hard Top Box with Tools	1931 1	460 x 400 x 200 mm	8,1 kg
Trolley Box with Tools	1932 1	460 x 400 x 250 mm	9,5 kg
Hard Top Box without Tools	1931 0	460 x 400 x 200 mm	5,5 kg
Trolley Box without Tools	1932 0	460 x 400 x 250 mm	6,9 kg
Other Tool Cases available on request			



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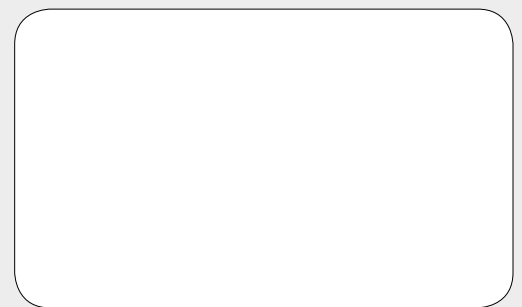
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