

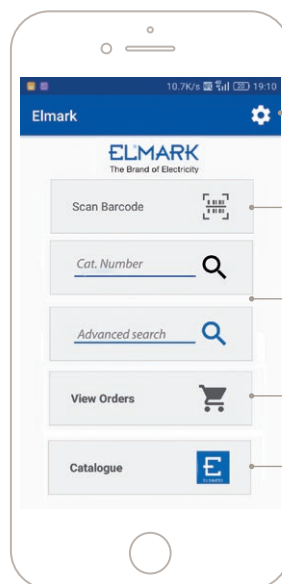
Cables and
tools_____

E - BUSINESS PLATFORM

MOBILE APPLICATION FOR ACCESS E-BUSINESS PLATFORM BY ELMARK

THE APPLICATION OFFERS THE FUNCTIONS AS FOLLOW:

- An easy and brief way for check of the quantities of products on stock
- Barcode scanning and check of the card of the product
- An easy check and correction of the products chosen in the basket.
- Making and placing the order
- An access to the actual catalogues and a possibility to place an order by the PDF file



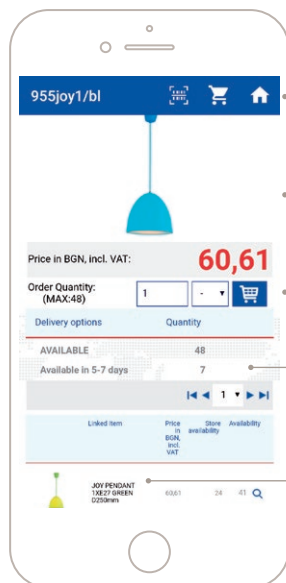
Settings of the application (user, password, region)

Barcode Scan through the smartphone

Searching by catalogue number, name or technical parameter

View the orders

Actual catalogues with an ability for their downloading and looking up later. Once you download them, it won't require to check them again by internet



Basic main menu functions

Product info

Place order

Order Availabilities and Delivery time

Linked Products

Install Application!

Elmark E-Business Platform





OUTSIDE POWER CABLES

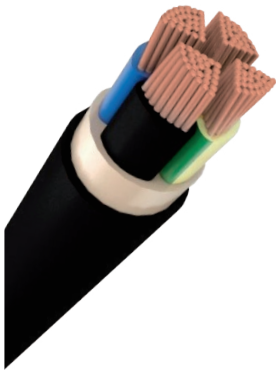


Standards:

DIN VDE 0293-308 - Colour coded acc
 DIN VDE 0276 part 603 or HD 186
 DIN VDE 0295 - Wire class acc

NY Y / C Y Y

Power cable, Cu-conductor, PVC-insulation, PVC-sheathing



Power cable for construction of underground distribution grids and installations of industrial and public projects, where mechanical damages are not to be expected. Suitable for transmission and distribution of electric power at nominal voltage U_0/U 0,6/1 kV.

TECHNICAL DATA:

- Power cable acc. to DIN VDE 0276 part 603
- Ambient temperature
- fixed installation: -30°C to +50°C
- Temperature of laying: min. -5°C
- Max. operating temperature: +70°C
- Short circuit temperature: +160°C
- (short circuit duration up to 5 sec.)
- Nominal voltage U_0/U 0,6/1 kV
- Test voltage: AC-4 kV/50 Hz

CONSTRUCTION:

- Solid or stranded Cu wires cl. 1 or cl. 2 acc. to DIN VDE 0295
- Insulation: PVC compound
- Inner sheath: filling compound
- Outer sheath: PVC compound
- Outer sheath colour: black
- **re** - round solid
- **rm** - round multi-core
- **sm** - sector multi-core
- **se** - sector solid conductor



Cross section (n x mm ²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
2x1,5	re	black	12,2	28	192	100	833019
2x2,5	re	black	12,9	46	229	100	833020
2x4	re	black	14,9	75	315	100	833021
2x6	re	black	15,9	112	382	100	833022
2x10	re	black	17,5	188	509	1	833023



Cross section (n x mm ²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
3x1,5	re	black	12,1	43	201	100	833030
3x2,5	re	black	12,9	70	247	100	833031
3x4	re	black	15	112	350	100	833032
3x6	re	black	16,1	168	435	100	833034
3x10	re	black	18	282	606	1	833036





Cross section (n x mm ²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
4x1,5	re	black	12,9	57	232	100	833060
4x2,5	re	black	13,8	93	289	100	833061
4x4	re	black	16,2	149	419	100	833062
4x6	re	black	17,4	223	525	100	833063
4x10	re	black	19,5	376	741	1	833064
4x16	re	black	21,8	595	1024	1	833065



Cross section (n x mm ²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
5x1,5	re	black	13,7	71	272	100	833077
5x2,5	re	black	14,8	116	341	100	833078
5x4	re	black	17,4	187	494	100	833079
5x6	re	black	19	279	635	100	833080



Standards:

BDS 904-84 - according to construction
IEC60332-1 - according to flame
retardant

CBT-C

5+2
standard
+extended
7 YEAR TOTAL
WARRANTY

POWER CABLE WITH SOLID OR STRANDED CU WIRES, PVC INSULATION AND SHEATHING

A cable with solid or stranded CU wires, resistant to the sun radiance and atmospheric influences. It is suitable for spread and transfer of electrical energy if it is installed steady outside or in indoor spaces -cable trunking, electrical cable conduit, cable trays, directly into tunnels, earthworks, pits and etc.

TECHNICAL DATA:

- Nominal voltage U₀- 0.6kV
- Nominal voltage U- 1kV
- Ambient temperature- from -30°C to +50°C
- Max. operating temperature- +70°C°
- Temperature of laying- ≥-5°C
- Conductor material- Copper (Cu)
- Conductors insulation - PVC compound
- Outer sheath material-filling sheath and PVC compound
- Conductor construction- solid or stranded CU wires, class 1 or class 2
- **re** - round solid
- **rm** - round multi-core
- **sm** - sector multi-core
- **se** - sector solid conductor



Cross section (n x mm ²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
2X1	re	black	9.5	20	100	100	817020
2X1.5	re	black	10.0	28	120	100	817021
2X2.5	re	black	10.6	46	150	100	817022
2X4	re	black	12.5	73	210	100	817023
2X6	re	black	13.3	110	260	100	817024
2X10	re	black	15.2	182	370	1	817025



Cross section (n x mm ²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
3X1	re	black	9.7	28	120	100	817036
3X1.5	re	black	10.2	42	140	100	817037
3X2.5	re	black	11.0	69	180	100	817039
3X4	re	black	13.0	110	260	100	817041
3X6	re	black	14.0	165	340	100	817043
3X10	re	black	16.0	275	480	1	817045



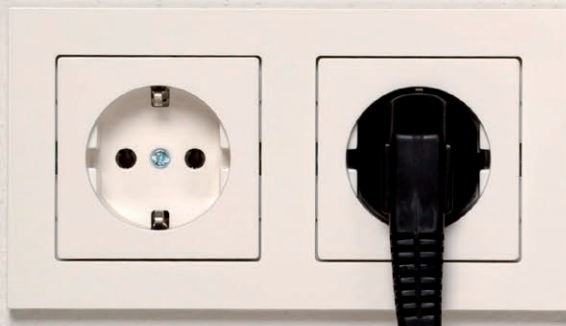


Cross section (n x mm ²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
4X1	re	black	10.4	37	140	100	817067
4X1.5	re	black	11.0	55	165	100	817068
4X2.5	re	black	11.9	91	215	100	817069
4X4	re	black	14.1	146	315	100	817070
4X6	re	black	15.4	220	410	100	817071
4X10	re	black	17.4	365	595	1	817072
4X16	rm	black	20.6	585	950	1	817073



Cross section (n x mm ²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
5X1	re	black	11.2	45	160	100	817083
5X1.5	re	black	11.8	69	195	100	817084
5X2.5	re	black	12.8	114	260	100	817085
5X4	re	black	15.5	182	380	100	817086
5X6	re	black	16.8	275	500	100	817087





INSIDE POWER CABLES

Standards:

Flat conductor acc. to BDS IEC 60227-5
Flexible Cu-wires, cl. 6 acc. to IEC 60228

H03VH-H

Flat conductor, flexible Cu-wires, PVC-insulation



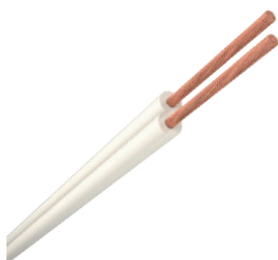
Designed for connection of electrical appliances to the electrical grid, for connection of mobile users, devices and appliances.

TECHNICAL DATA:

- Ambient temperature: -40°C to +50°C
- Max. operating temperature: +70°C
- Nominal voltage Uo/U: 300/300 V
- Test voltage: 2000 V

CONSTRUCTION:

- Flexible Cu-wires, cl. 6 acc. to IEC 60228
- Flat conductor acc. to BDS IEC 60227-5
- Insulation: PVC compound
- Insulation colour: white or black-red



Cross section (n x mm ²)	Colour	Thickness (mm)	Width (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
2x0,50	white or black-red	6,0	3,0	9	25	100	820001
2x0,75	white or black-red	6,4	3,2	14	30	100	820002
2x1	white or black-red	6,8	3,4	19,2	31	100	820017
2x1,50	white or black-red	7,6	4,0	28,8	38	100	820018

**Standards:**

Conductor acc. to HD 21,5 S3
Flexible Cu-wires, cl. 5 acc. to IEC 60228

H03VV-F / MYYUP

Conductor with flexible Cu-wires, PVC insulation and sheath



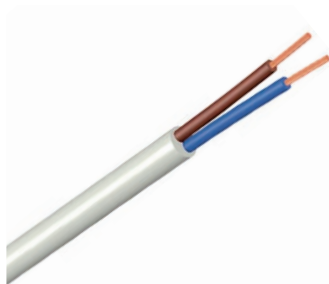
Conductor with parallel or stranded in a bundle insulated cores, designed for connection of electrical appliances to the electrical grid, for connection of mobile users, devices and appliances.

TECHNICAL DATA:

- Variant of the conductor: H03VVH2-F - flat type
- Ambient temperature: -30°C to +50°C
- Max. operating temperature: +70°C
- Nominal voltage Uo/U: 300/300 V
- Test voltage: 2000 V

CONSTRUCTION:

- Flexible Cu-wires, cl. 5 acc. to IEC 60228
- Insulation: PVC compound
- Sheafing: PVC compound
- Outer sheath colour: white



Type	Cross section (n x mm ²)	Colour	Thickness (mm)	Width (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
H03VVH2-F	2x0,50	white	6,0	3,6	10,0	30	100	820004
H03VVH2-F	2x0,75	white	6,4	3,9	14,5	39	100	820006



Type	Cross section (n x mm ²)	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
H03VV-F	2X0,5	white	9.5	100	25	100	820003
H03VV-F	3X0.5	white	10.0	120	30	100	820007



Standards:

Flexible cable acc. to HD 21.5 S3, DIN VDE 0281 part 5
Flexible Cu-wires, cl. 5 acc. to DIN VDE 0295, IEC 60228
Colour coding: acc. to DIN VDE 0293-308

H05VV-F / MYYM

Conductor with flexible Cu-wires, PVC insulation and sheath

5+2
standard
+extended
7 YEAR TOTAL
WARRANTY

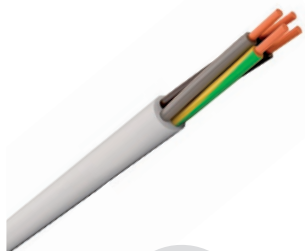
Conductor with parallel or stranded in a bundle insulated cores, designed for connection of electrical appliances to the electric grid, for connection of mobile users, devices and appliances.

TECHNICAL DATA:

- Variant of the conductor: H05VVH2-F - flat type
- Ambient temperature: -30°C to +50°C
- Max. operating temperature: +70°C
- Nominal voltage U₀/U: 300/300 V
- Test voltage: 2000 V

• CONSTRUCTION:

- Flexible Cu-wires, cl. 5 acc. to DIN VDE 0295, IEC 60228
- Insulation/outer sheath: PVC compound;
- Outer sheath colour: white



Cross section (n x mm ²)	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
2 x 0,75	white	7,6	14,0	62	100	821001
2 x 1	white	8,0	19,5	71	100	821002
2 x 1,5	white	9,0	28,0	94	100	821003
2 x 2,5	white	11,0	47,0	114	100	821004



Cross section (n x mm ²)	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
3 x 0,75	white	8,0	21,5	74	100	821008
3 x 1	white	8,4	29,0	85	100	821009
3 x 1,5	white	9,8	42,0	120	100	821010
3 x 2,5	white	12,0	70,0	182	100	821011
3 x 4	white	13,0	114,0	252	100	821012



Cross section (n x mm ²)	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
4 x 0,75	white	8,6	29,0	92	100	821016
4 x 1	white	9,4	38,5	109	100	821017
4 x 1,5	white	11,0	56,0	151	100	821018
4 x 2,5	white	13,0	93,5	225	100	821019
4 x 4	white	14,0	151,0	315	100	821020



Cross section (n x mm ²)	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
5 x 0,75	white	9,6	36,0	115	100	821024
5 x 1	white	10,0	48,0	132	100	821025
5 x 1,5	white	12,0	70,0	188	100	821026
5 x 2,5	white	14,0	117,0	280	100	821027





INSTALLATION CONDUCTORS

Standards:

Conductor acc. to HD 21.3 S3, DIN VDE 0281 part 3
Solid Cu wires cl. 1 acc. to DIN VDE 0295, IEC 60228

H05V-U, H07V-U / (FY)

Conductor, Cu-wires, PVC-insulation



For fixed installation in lighting networks, electric power installations, wiring of electrical switchboards, machines and equipment.

TECHNICAL DATA:

- Ambient temperature: -30°C to +50°C
- Temperature of laying: min. -5°C
- Max. operating temperature: +70°C
- Nominal voltage U₀/U:
 - H05V-U 300/500 V
 - H07V-U 450/750 V
- Test voltage:
 - H05V-U 2000 V
 - H07V-U 2500 V

CONSTRUCTION:

- Solid Cu wires cl. 1 acc. to DIN VDE 0295, IEC 60228
- Insulation: PVC compound
- Insulation colour:
 - yellow-green: available cross sections from 0.5 to 10 (mm²)
 - white: available cross sections from 0.5 to 4 (mm²)
 - black: available cross sections from 0.5 to 10 (mm²)
 - blue: available cross sections from 0.5 to 10 (mm²)
 - brown: available cross sections from 0.5 to 10 (mm²)
 - red: available cross sections from 0.5 to 10 (mm²)



Type	Cross section (n x mm ²)	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
H05V-U	0,5	2,4	4,5	9	100	822001
H05V-U	0,75	2,6	7,0	12	100	822002
H05V-U	1	2,8	9,0	15	100	822003

Note: At orders of the desired colour, must be added after the catalogue number:

^BL – blue; ^R – red; ^B – black; ^W – white; ^YG – yellow green; ^BR – brown



Type	Cross section (n x mm ²)	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
H07V-U	1,5	3,3	13,5	21	100	822004
H07V-U	2,5	3,9	22,0	33	100	822005
H07V-U	4	4,4	35,0	48	100	822006
H07V-U	6	4,6	52,5	68	100	822007
H07V-U	10	6,4	87,5	113	100	822008

Note: At orders of the desired colour, must be added after the catalogue number:

^BL – blue; ^R – red; ^B – black; ^W – white; ^YG – yellow green; ^BR – brown



Standards:

PVC conductor acc. to HD 21.3 S3, DIN VDE 0281 part 3
Flexible Cu wires cl. 5 acc. to DIN VDE 0295, IEC 60228

H05V-K, H07V-K / MYF

Conductor, Cu-wires, PVC-insulation



For fixed installation wiring of electrical switchboards, machines and equipment, where small bending radius is required.

TECHNICAL DATA:

- Ambient temperature: -30°C to +50°C
- Temperature of laying: min. -5°C
- Max. operating temperature: +70°C
- Nominal voltage U₀/U:
 - H05V-K 300/500 V
 - H07V-K 450/750 V
- Test voltage:
 - H05V-K 2000 V
 - H07V-K 2500 V

CONSTRUCTION:

- Flexible Cu wires cl. 5 acc. to DIN VDE 0295, IEC 60228
- Insulation: PVC compound
- Insulation colour:
 - yellow-green: available cross sections from 0.5 to 25 (mm²)
 - white: available cross sections from 0.5 to 4 (mm²)
 - black: available cross sections from 0.5 to 25 (mm²)
 - blue: available cross sections from 0.5 to 25 (mm²)
 - brown: available cross sections from 0.5 to 10 (mm²)
 - red: available cross sections from 0.5 to 25 (mm²)



Type	Cross section (n x mm ²)	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
H05V-K	0,5	2,6	5,0	10	100	823002
H05V-K	0,75	2,8	7,0	13	100	823003
H05V-K	1	3,0	9,5	16	100	823004

Note: At orders of the desired colour, must be added after the catalogue number:

^BL – blue; ^R – red; ^B – black; ^W- white; ^YG- yellow green; ^BR- brown



Type	Cross section (n x mm ²)	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
H07V-K	1,5	3,5	14,0	23	100	823005
H07V-K	2,5	4,2	23,0	36	100	823006
H07V-K	4	4,8	36,5	52	100	823007
H07V-K	6	6,3	57,0	74	100	823008
H07V-K	10	7,6	96,0	131	100	823009
H07V-K	16	8,8	151,0	195	100	823010
H07V-K	25	11,0	235,0	300	100	823011

Note: At orders of the desired colour, must be added after the catalogue number:

^BL – blue; ^R – red; ^B – black; ^W- white; ^YG- yellow green; ^BR- brown



Standards:

Flat conductor acc. to BDS 4305-90
Solid Cu wires cl. 1 acc. to BDS 904-84

NYIFY-O/J

Flat installation conductor, Cu-wires, PVC-insulation, PVC-sheath



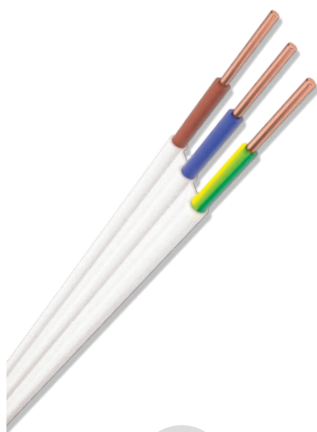
Installation conductor with parallel Cu-wires for fixed installation in lighting networks and electric power installations.

TECHNICAL DATA:

- Ambient temperature: -30°C to +50°C
- Temperature of laying: min. -5°C
- Max. operating temperature: +70°C
- Nominal voltage Uo/U: 220/380 V
- Test voltage: 2000 V

CONSTRUCTION:

- Solid Cu wires cl. 1 acc. to BDS 904-84
- Insulation: PVC compound
- Sheath: PVC compound
- Outer sheath colour: white



Cross section (n x mm ²)	Colour	Conductor Thickness (mm)	Conductor Width (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
2 x 1,00	white	3,70	10,30	17,9	55	100	834001
2x1,50	white	4,10	11,20	26,6	65	100	834002
2 x 2,50	white	5,00	12,90	44,3	97	100	834003
2x4,00	white	5,60	14,20	70,6	135	100	834004
2x6,00	white	6,50	16,00	104,4	190	100	834005

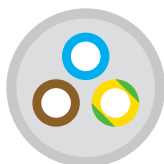
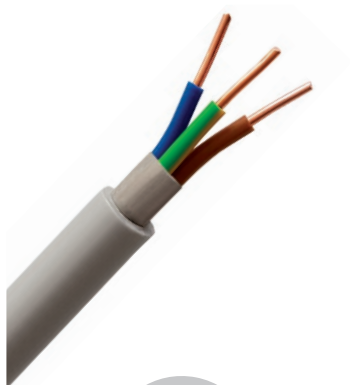


Cross section (n x mm ²)	Colour	Conductor Thickness (mm)	Conductor Width (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
3x1,00	white	3,70	14,00	26,8	73	100	834007
3x1,50	white	4,10	15,30	39,8	95	100	834008
3x2,50	white	5,00	16,90	66,4	142	100	834009
3x4,00	white	5,60	19,80	104,2	200	100	834010
3x6,00	white	6,50	22,50	156,5	280	100	834011



Standards:

DIN VDE 0295; IEC 60228- according to construction DIN VDE 0250-204- according to multi-core conductors IEC60332-1- according to flame retardant

**NYM**

Multi-core conductor with Cu wires and PVC insulation



For fixed installations in , or on under plasterboard, in lighting networks in dry places. Can be used and in damp or wet rooms, in wall and concrete, in switchboards and mashines. Is suitable for outdoor use if cable is protected against direct sunshine.

TECHNICAL DATA:

- Nominal voltage: Uo- 300V; U- 500V
- Ambient temperature- from -20°C to +50°C
- Max. operating temperature- +70°C
- Installation temperature- $\geq -5^{\circ}\text{C}$
- Conductor material- Copper (Cu)

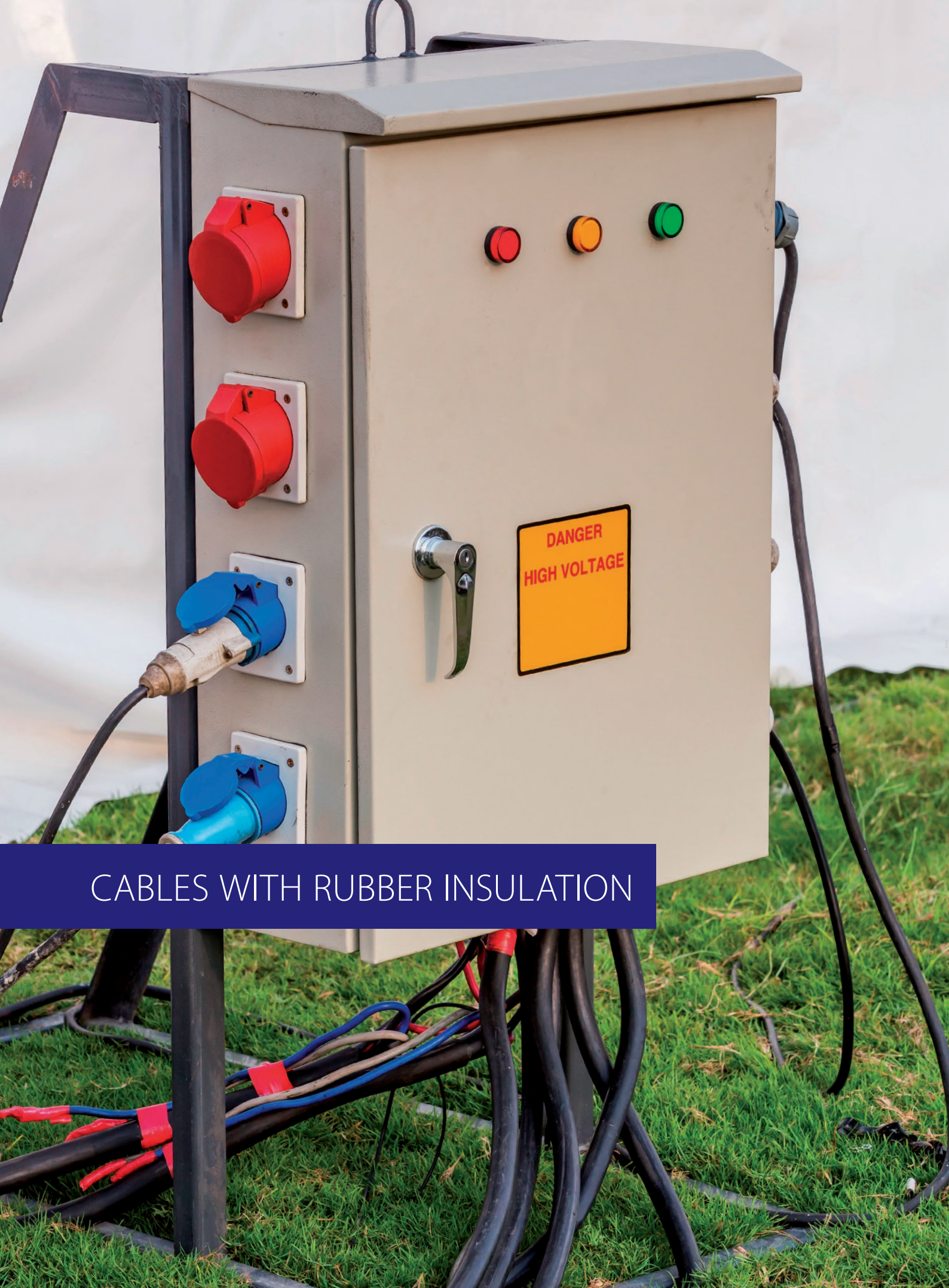
- Conductors insulation - PVC compound
- Outer sheath material-filling sheath and PVC compound
- Conductor construction- solid CU wires, class 1 and class 2 for cross section above 10mm²

Cross section (n x mm ²)	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
2X1.5	grey	9.8	29	120	100	832008
2X2.5	grey	11.0	48	160	100	832009
2X4	grey	12.5	76	220	100	832010



Cross section (n x mm ²)	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
3X1.5	grey	10.5	43	136	100	832016
3X2.5	grey	11.5	72	190	100	832017
3X4	grey	13.0	115	260	100	832018





CABLES WITH RUBBER INSULATION

Standards:

DIN VDE 0295; IEC 60228- according to construction

DIN VDE 0293-308 and HD 186- according to colour coating

DIN VDE 0482-332-1-2; IEC60332-1- according to flame retardant

H05RR-F / MCCM

Rubber flexible cable



For connection of electrical appliances and consumers with low and middle mechanical stress to Alternating Current (AC). It has wide use in household, office, for cable reels, for connecting of mobile consumers and etc.

TECHNICAL DATA:

- Nominal voltage U_0/U : 300V/500V
- Ambient temperature: from -30°C to +60°C
- Conductor material: Copper (Cu) wires, class 5

- Conductors insulation: Rubber EPR
- Outer sheath material: Rubber EPR



Cross section (n x mm ²)	Type	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
2X1	H05RR-F	black	6.1 - 8.0	19.0	71.0	100	814002
2X1.5	H05RR-F	black	7.6 - 9.8	29.0	99.0	100	814003
2X2.5	H05RR-F	black	9.0 - 11.6	48.0	148.0	100	814004



Cross section (n x mm ²)	Type	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
3X1	H05RR-F	black	6.5 - 8.5	29.0	88.0	100	814007
3X1.5	H05RR-F	black	8.0 - 10.4	43.0	125.0	100	814008
3X2.5	H05RR-F	black	9.6 - 12.4	72.0	175.0	100	814009
3X4	H05RR-F	black	11.3 - 14.5	115.0	246.0	100	814010



Cross section (n x mm ²)	Type	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
4X1	H05RR-F	black	9.0 - 11.6	58.0	165.0	100	814012
4X1.5	H05RR-F	black	9.0 - 11.6	58.0	165.0	100	814013
4X2.5	H05RR-F	black	10.7 - 13.8	96.0	225.0	100	814014
4X4	H05RR-F	black	12.7 - 16.2	154.0	315.0	100	814015
4X6	H05RR-F	black	14.2 - 18.1	231.0	440.0	100	814017



Cross section (n x mm ²)	Type	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
5X1.5	H05RR-F	black	9.8 - 12.7	72.0	185.0	100	814020
5X2.5	H05RR-F	black	11.9 - 15.3	120.0	275.0	100	814021
5x4	H05RR-F	black	15,6-19,9	187	475	100	814022
5x6	H05RR-F	black	17,5-22,2	288	635	100	814023

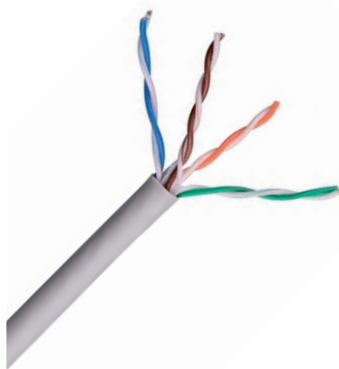




COMMUNICATION CABLES

Standards:

LAN cable acc. to ISO/IEC-11801/1995,
IEC-1156/1995
ANSI/TIA/EIA - 568-A-5
Solid Cu-wires - 24 AWG; 0,51 mm, acc.
to IEC 60228

**UTP**

LAN cable, stranded in pairs, cat. 5e



Cable, stranded by pairs, used for transmission of digital signals with high speed of transmission, with spectrum of the frequency being used up to 100 MHz for cat. 5 and up to 125 MHz for cat. 5e. Suitable for setting computer systems for data transmission, measuring and control systems with proper resistance to electromagnetic influences.

TECHNICAL DATA:

- Ambient temperature: -30°C to +50°C
- Temperature of laying: min. 0°C
- Characteristic Impedance: $100 \Omega \pm 15 \Omega$
- Loop resistance: $\leq 192 \Omega / \text{km}$
- Unbalance of loop resistance: $\leq 3\%$
- Insulation resistance: $\geq 150 \text{ M}\Omega \times \text{km}$
- Operating capacity: $\leq 55,8 \text{ nF/km}$
- Cable diameter: 5 mm
- Cu weight: 16,5 kg/km
- Cable weight: 27 kg/km

CONSTRUCTION:

- Solid Cu-wires - 24 AWG; 0,51 mm, acc. to IEC 60228
- Insulation: PE compound
- Cable bundle: 4 stranded pairs
- Outer sheath: PVC compound or LSOH compound
- Outer sheath colour: for PVC-grey

Colour	Category	Frequency - MHz	Characteristic of attenuation							Packing (m)	Catalogue number
			4	10	16	62,5	100	125			
grey	Cat. 5e	Attenuation - db/100 m	4,1	6,5	8,2	17	22	24,9		305	879002
		Attenuation (Next) - db	56,3	50,3	47,3	38,4	35,3	33,9			



Insulation colour of stranded pairs - core a / core b:
 - white with blue ring / blue
 - white with orange ring / orange
 - white with green ring / green
 - white with brown ring / brown

Standards:

LAN cable acc. to ISO/IEC-11801/1995,
IEC-1156/1995
ANSI/TIA/EIA - 568-A-5
Solid Cu-wires - 24 AWG; 0,51 mm, acc.
to IEC 60228

**FTP**

LAN cable, stranded in pairs, with screen, cat. 5e



Cable, stranded in pairs, with screen of laminated foil, used for transmission of digital signals with high speed of transmission, with spectrum of the frequency being used up to 100 MHz for cat. 5 and up to 125 MHz for cat. 5e. FTP cable is suitable for setting computer systems for data transmission, measuring and control systems and for transmission of high-frequency analogue signals in automatic and industrial TV networks. High resistance to electromagnetic influences.

TECHNICAL DATA:

- Ambient temperature: -30°C to +50°C
- Temperature of laying: min. 0°C
- Characteristic Impedance: $100 \Omega \pm 15 \Omega$
- Loop resistance: $\leq 192 \Omega / \text{km}$
- Unbalance of loop resistance: $\leq 3\%$
- Insulation resistance: $\geq 150 \text{ M}\Omega \times \text{km}$
- Operating capacity: $\leq 55,8 \text{ nF/km}$
- Cable diameter: 6 mm
- Cu weight: 18 kg/km
- Cable weight: 31 kg/km

CONSTRUCTION:

- Solid Cu-wires - 24 AWG; 0,51 mm, acc. to IEC 60228
- Insulation: PE compound
- Cable bundle: 4 stranded pairs
- PETP foil
- Drain tinned Cu-wire
- Screen: laminated Al foil
- Outer sheath: PVC compound or LSOH compound
- Outer sheath colour tor PVC-grey

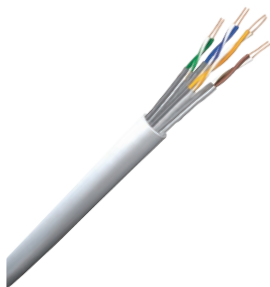
Colour	Category	Frequency - MHz	Characteristic of attenuation							Packing (m)	Catalogue number
			4	10	16	62,5	100	125			
grey	Cat. 5e	Attenuation - db/100 m	4,1	6,5	8,2	17	22	24,9		305	879001
		Attenuation (Next) - db	56,3	50,3	47,3	38,4	35,3	33,9			



Insulation colour of stranded pairs - core a / core b:
 - white with blue ring / blue
 - white with orange ring / orange
 - white with green ring / green
 - white with brown ring / brown

Standards:

LAN cable acc. to ISO/ EC-11801/1995,
IEC-1156/1995, ANSI/TIA/EIA-568-A-5
Solid Cu-wires - 24 AWG; 0,57 mm acc.
to IEC 60228

**STP**

LAN cable, stranded in pairs, with screen on each pair, cat. 6



Cable, stranded in pairs, with screen of laminated foil on each pair, used for transmission of digital signals with high speed of transmission, with spectrum of the frequency being used up to 300 MHz for cat. 6. The cable is suitable for setting computer systems for data transmission, measuring and control systems and for transmission of high-frequency analogue signals in automatic and industrial TV networks and is with high resistance to electromagnetic influences.

TECHNICAL DATA:

- Ambient temperature: -30°C to +50°C
- Temperature of laying: min. 0°C
- Characteristic Impedance:
- 100 $\Omega \pm 15 \Omega$ up to 100 MHz
- 100 $\Omega \pm (15 + 0,05(f-100))$ above 100 MHz
- Loop resistance: $\leq 170 \Omega / \text{km}$
- Unbalance of loop resistance: $\leq 3\%$
- Insulation resistance: $\geq 150 \text{ M}\Omega \times \text{km}$
- Operating capacity: $\leq 50 \text{ nF/km}$
- Cable diameter: 7 mm
- Cu weight: 21 kg/km
- Cable weight 42 kg/km

CONSTRUCTION:

- Solid Cu-wires - 24 AWG; 0,57 mm acc. to IEC 60228
- Insulation: PE compound
- Screen: laminated Al foil on each pair
- Cable bundle: 4 stranded screened pairs
- Outer sheath: PVC compound or LSOH compound
- Outer sheath colour: for PVC-grey, for LSOH - orange

Colour	Category	Frequency - MHz	Characteristic of attenuation								Packing (m)	Catalogue number
			4	10	16	62,5	100	200	300			
grey	Cat. 6	Attenuation - db/100 m	3,8	6	7,6	15,5	19,9	29,5	35		305	879012
		Attenuation (Next) - db	65,3	59,3	56,2	47,4	44,3	39,8	38			



Insulation colour of stranded pairs - core a / core b:

- white with blue ring / blue
- white with orange ring / orange
- white with green ring / green
- white with brown ring / brown

Standards:

LAN cable acc. to ISO/ EC-11801/1995,
IEC-1156/1995, ANSI/TIA/EIA-568-A-5
Solid Cu-wires - 24 AWG; 0,51 mm acc.
to IEC 60228

**S-FTP**

LAN cable, stranded in pairs, with duple-screen, cat. 5



Cable, stranded in pairs, with screen of laminated foil, with braid of tinned copper wires used for transmission of digital signals with high speed of transmission, with spectrum of the frequency being used up to 100 MHz for cat. 5. The cable is suitable for setting computer systems for data transmission, measuring and control systems and for transmission of high-frequency analogue signals in automatic and industrial TV networks. High resistance to electromagnetic influences.

TECHNICAL DATA:

- Ambient temperature: -30°C to +50°C
- Temperature of laying: min. 0°C
- Characteristic Impedance: 100 $\Omega \pm 15 \Omega$
- Loop resistance: $\leq 192 \Omega / \text{km}$
- Unbalance of loop resistance: $\leq 3\%$
- Insulation resistance: $\geq 150 \text{ M}\Omega \times \text{km}$
- Operating capacity: $\leq 55,8 \text{ nF/km}$
- Cable diameter: 6,9 mm
- Cu / Cable weight: 31 / 51 kg/km

CONSTRUCTION:

- Solid Cu-wires - 24 AWG; 0,51 mm acc. to IEC 60228
- Insulation: PE compound
- Cable bundle: 4 stranded pairs
- PETP foil
- Screen: laminated Al foil
- Braiding of tinned Cu-wires
- Outer sheath: PVC compound or LSOH compound
- Outer sheath colour: for PVC - grey

Colour	Category	Frequency - MHz	Characteristic of attenuation								Packing (m)	Catalogue number
			4	10	16	62,5	100	125				
grey	Cat. 5	Attenuation - db/100 m	4,3	6,6	8,2	17,1	22				305	879011
		Attenuation (Next) - db	53	47	44	35	32					



Insulation colour of stranded pairs - core a / core b:

- white with blue ring / blue
- white with orange ring / orange
- white with green ring / green
- white with brown ring / brown

COAXIAL CABLE RG6 / 96



Coaxial cable, suitable for connection of TV aerials to TV receivers.
Central cord Cu 0.72 mm²

Suitable for high frequency equipment, measuring and control equipment and appliances, for setting up local computer networks, and data systems, for connection of TV aerials to TV receivers

TECHNICAL DATA:

- model - RG6 / 96;
- material and structure of the core cable: CCS 1.02 mm;
- type of insulation: PE 4.60 mm;
- external conductor (screen): 96 Al foil;
- diameter and cable material: 6.9 mm PVC;
- wave impedance: $75 \pm 5 \text{ Ohm}$;
- operating temperature: from -30°C to $+70^\circ \text{C}$;
- damping ratio: at 100 MHz 0.0637 dB / m.

Colour	Description	Insulation Ø mm	Outer Ø mm	Wave resistance Ω	Max. capacity pF/m	Attenuation at 200 MHz max. dB/100m	Packing (m)	Catalogue number
white	RG6/96	PE 4,70	8,40 PVC	75 $\pm$ 3	68	12	100	856001



COAXIAL CABLE RG59 / + 2X0.5MM2



Coaxial cable, suitable for video surveillance systems.
Central cord Cu 0.59 mm² and two power supply cords. Cu 2x0.5mm²

TECHNICAL DATA:**• Coaxial cable: RG-59**

- Inner conductor: Ø 0.59 mm - Cu wire
- Dielectric: Ø 3.7 mm PE full
- Braid: Stranded wire Cu, Indoor coverage area : 90 %
- Impedance: 75 Ω
- Outer coating: Al foil + Al braiding
- Cable attenuation at 100m section:
 - 10.9 dB @ 100 MHz
 - 15.2 dB @ 200 MHz
 - 23.2 dB @ 450 MHz
 - 32.6 dB @ 800 MHz
 - 36.6 dB @ 1000 MHz

Electrical cable:

- Inner conductor: 2 x 0.5 m CU wires
- Power wires resistance: 4 Ω / 100 m
- Outer coating: Ø 5 mm
- Cat. Number 856004

Colour	Description	Insulation Ø mm	Outer Ø mm	Wave resistance Ω	Max. capacity pF/m	Attenuation at 200 MHz max. dB/100m	Packing (m)	Catalogue number
white	RG59/U+2x0.5	PE 3,66	8/5mm	75 $\pm$ 3	53.4	12.4	100	856004





DIGITAL MULTIMETER EM5510

3+0
standard
+extended
3 YEAR TOTAL
WARRANTY

This is a digital device for measuring of humidity, illumination, temperature and all electric values. It features automatic range adjustment, manual value selection. It has an LCD display showing the measured value in digits with the size of 3 3/4. It is of high accuracy of analogue-digital conversion, precision in measuring and resistance to electro-magnetic interferences. It has an automatic switch off.

TECHNICAL FEATURES:

- DC voltage: 0.4 / 4 / 40 / 400 / 600 V
- AC voltage : 4 / 40 / 400 / 600V
- DC current: 400μ / 4000μ / 40m / 400m / 10A
- AC current: 400μ / 4000μ / 40m / 400m / 10A
- Resistance: 400 / 4K / 40K / 400K / 4M / 40MΩ
- Capacitors: 4n / 40n / 400n / 4μ / 40μ / 100μF
- Frequency: 10 / 100 / 1k / 10k / 100k / 200kHz
- Loading cycles: from 0.1% to 99.9%
- Temperature: -20° up to 1000°C
- Humidity: 30% to 95%
- Illumination: 4000 Lux / 40000 Lux
- Noise level: 35 to 100dB
- Circuit control: yes
- Diodes control: yes
- Weight: 310 g (including battery)
- Battery: 1x9V
- Dimensions: 83 x 162 x 47mm

Type	Packing (pcs) / carton	Catalogue number
EM5510	1/10	5195510



DIGITAL MULTIMETER EM420C

3+0
standard
+extended
3 YEAR TOTAL
WARRANTY

This is a digital device for measuring of humidity, illumination, temperature and all electric values. It features automatic range adjustment, manual value selection. It has an LCD display showing the measured value in 4 digits with the size of 16 mm. It is of high accuracy of analogue-digital conversion, precision in measuring and resistance to electro-magnetic interferences. It has an automatic switch off.

TECHNICAL FEATURES:

- DC voltage: 200m / 2 / 20 / 200 / 600 V
- AC voltage : 2 / 20 / 200 / 600V
- DC current: 200μ / 2000μ / 20m / 200m / 2 / 10A
- AC current: 00μ / 2000μ / 20m / 200m / 2 / 10A
- Resistance: 200 / 2K / 20K / 200K / 2M / 20MΩ
- Temperature: -20° up to 1000°C
- Battery test: 1.5 / 3 / 9 / 12 V
- Circuit control: yes
- Diodes control: yes
- Weight: 200 g (including battery)
- battery: 3x1.5 V
- dimensions: 75 x 158 x 35mm

Type	Packing (pcs) / carton	Catalogue number
EM420C	1/10	519420





DIGITAL MULTIMETER EM3055

3+0
standard
+extended

3 YEAR TOTAL
WARRANTY

This is a digital device for measuring of all electric values. It features manual range adjustment. It has an LCD display showing the measured value in 4 digits with the size of 3 1/2. It is of high accuracy of analogue-digital conversion, precision in measuring and resistance to electro-magnetic interferences.

TECHNICAL FEATURES:

- DC voltage: 200mV / 2 / 20 / 200 / 1000 V
- AC voltage: 2 / 20 / 200 / 750V
- DC current: 2m / 20m / 200m / 10A
- AC current: 200m / 10A
- Resistance: 200 / 2K / 20K / 200K / 2M / 20M / 200MΩ
- Capacity: 2000p / 20n / 200n / 20μF
- Temperature: 0° up to 1000°C
- Battery test: 1.5 / 3 / 9 / 12 V
- Transistor test: Vce≈3V, Ib≈10μF
- Circuit control: yes
- Diodes control: yes
- Weight: 495 g (including battery)
- battery: 1x9V
- dimensions: 97 x 200 x 48mm

Type	Packing (pcs) / carton	Catalogue number
EM3055	1/10	5193055



DIGITAL MULTIMETER EM3058

3+0
standard
+extended

3 YEAR TOTAL
WARRANTY

This is a digital device for measuring of temperature and all electric values. It features manual range adjustment, manual value selection. It has an LCD display showing the measured value in digits with the size of 3 3/4. It is of high accuracy of analogue-digital conversion, precision in measuring and resistance to electro-magnetic interferences. It has an automatic switch off.

TECHNICAL FEATURES:

- DC voltage: 200mV / 2 / 20 / 200 / 1000 V
- AC voltage: 200 m / 2 / 20 / 200 / 750V
- DC current: 20μ / 200 μ / 2m / 200m / 10A
- AC current: 20μ / 200μ / 2m / 200m / 2 / 10A
- Resistance: 200 / 2K / 20K / 200K / 2M / 20M / 200MΩ
- Capacitors: 2n / 20n / 200n / 2μ / 20μF
- Frequency: 20kHz to 2000kHz
- Loading cycles: 0.1% to 99.9%
- Temperature: 0° up to 1000°C
- Logical level: High > 2.0 V; Low < 0.8 V
- Circuit control: yes
- Diodes control: yes
- Weight: 495 g (including battery)
- battery: 1x9V
- dimensions: 97 x 200 x 47 mm

Type	Packing (pcs) / carton	Catalogue number
EM3058	1/10	5193058





DIGITAL MULTIMETER EM31

3+0
standard
+extended
3 YEAR TOTAL
WARRANTY

This is a digital device for measuring of electric values. It features automatic range adjustment, manual value selection. It has an LCD display showing the measured value in 4 digits with the size of 16 mm. It is of high accuracy of analogue-digital conversion, precision in measuring and resistance to electro-magnetic interferences. It has an automatic switch off and low battery indication.

TECHNICAL FEATURES:

- DC voltage: 240mV / 2400mV / 24V / 240V / 600V
- AC voltage: 240mV / 2400mV / 24V / 240V / 600V
- DC current: 240μA / 2400μA / 24mA / 240mA / 10A
- AC current: 240μA / 2400μA / 24mA / 240mA / 10A
- Resistance: 400Ω - 40MΩ
- Capacity: 51.2nF to 51.2μF
- Frequency: 50 / 500 / 5000 / 50kHz / 50MHz
- Circuit control: yes
- Diodes control: yes
- Weight: 137 g (including battery)
- battery: 9V
- dimensions: 70 x 126 x 28mm

Type	Packing (pcs) / carton	Catalogue number
EM31	1/10	519031



DIGITAL MULTIMETER / PEN EM3215

3+0
standard
+extended
3 YEAR TOTAL
WARRANTY

This is a digital device for measuring of electric values in the form of a pen. It features automatic range adjustment, manual value selection. It has an LCD display, data retain function, automatic reset, polarity selection, range overload indication. It is of high accuracy of analogue-digital conversion, precision in measuring and resistance to electro-magnetic interferences. It has an automatic switch off and low battery indication and a torch.

TECHNICAL FEATURES:

- DC voltage: 200mV / 2V / 20V / 200V / 600V
- AC voltage: 2V / 20V / 200V / 600V
- DC current: 20mA to 200mA
- AC current: 20mA to 200mA
- Resistance: 200Ω / 2KΩ / 20KΩ / 200KΩ / 2MΩ / 20MΩ
- Logical level: High > 2.3V; Low < 0.8V
- Circuit control: yes
- Diodes control: yes
- Weight: 182 g (including battery)
- battery: 1x9V
- dimensions: 57 x 230 x 30mm

Type	Packing (pcs) / carton	Catalogue number
EM3215	1/10	5193215





DIGITAL CLAMP METER EM202

3+0
standard
+extended

3 YEAR TOTAL
WARRANTY

This is a digital clamp meter for measuring of electric values. It features manual range adjustment, manual value selection. It has an LCD display showing the measured value in digits with the size of 3½ mm. It is of high accuracy of analogue-digital conversion, precision in measuring and resistance to electro-magnetic interferences. It has an automatic switch off.

TECHNICAL FEATURES:

- DC voltage: 1000 V
- AC voltage: 750V
- AC current: 20 / 200 / 1000A
- Resistance: 200 kΩ
- Temperature: -40° up to 1400°C
- Circuit control: yes
- Diodes control: yes
- Weight: 400 g (including battery)
- battery: 1x9V
- dimensions: 99 x 250 x 43mm

Type	Packing (pcs) / carton	Catalogue number
EM202	1/10	519202



DIGITAL CLAMP METER EM204

3+0
standard
+extended

3 YEAR TOTAL
WARRANTY

This is a digital clamp meter for measuring of electric values. It features automatic range adjustment, manual value selection. It has an LCD display, low battery indication, overload protection. It is of high accuracy of analogue-digital conversion, precision in measuring and resistance to electro-magnetic interferences. It has an automatic switch off.

TECHNICAL FEATURES:

- DC voltage: 1000 V
- AC voltage: 750V
- DC current: 200 / 1000A
- AC current: 200 / 1000A
- Resistance: 200 kΩ
- Frequency: 2 kHz
- Circuit control: yes
- Weight: 400 g (including battery)
- battery: 1x9V
- dimensions: 99 x 258 x 43mm

Type	Packing (pcs) / carton	Catalogue number
EM204	1/10	519204





DIGITAL CLAMP METER EM266

3+0
standard
+extended

3 YEAR TOTAL
WARRANTY

This is a digital clamp meter for measuring of electric values. It features manual range adjustment. It has an LCD display and retain function option, low battery indication and overload protection.

TECHNICAL FEATURES:

- DC voltage: 1000 V
- AC voltage: 750V
- AC current: 200 / 1000A
- Resistance: 200 / 20 kΩ
- Circuit control: yes
- Diodes control: yes
- Weight: 310 g (including battery)
- battery: 1x9V
- dimensions: 69 x 229 x 38mm

Type	Packing (pcs) / carton	Catalogue number
EM266	1/10	519266



INFRARED TEMPERATURE METER EM520A

3+0
standard
+extended

3 YEAR TOTAL
WARRANTY

This is a digital device for measuring of temperature. The temperature is measured with no contact. It has a laser counter for precision measuring, suitable large LCD display, battery low indication and overload protection.

TECHNICAL FEATURES:

- Temperature: -20° up to 320°C / -4° to 608 °F
- Distance to point size: 6:1
- Precision: $\pm 2^\circ$ C or 2% in reading
- battery: 1x9V
- dimensions: 90 x 155 x 45mm

Type	Packing (pcs) / carton	Catalogue number
EM520A	1/5	519520



DIGITAL DETECTOR 4 IN 1 SERIES TS530

3+0
standard
+extended

3 YEAR TOTAL
WARRANTY

This is a device for detecting metals, voltage and live conductors, wooden struts, or piping sections. The device has a 2-meter measuring tape. It features light and sound indication. When an object is located, the display light blinks and marks with increasing position. Once the exact position is located, a light point is marked on the wall through a button.

TECHNICAL FEATURES:

- 2-meter measuring tape
- Pen: marking the located detail
- Piping section: metal pipe up to 25mm
- Wooden struts: 30x30mm
- Live conductors detection: 50mm for 90 ~ 250V; 50/60Hz
- Weight: 213 g (including battery)
- battery: 1x9V
- dimensions: 73 x 180 x 32mm

Type	Packing (pcs) / carton	Catalogue number
TS530	1/10	519530





INDUSTRIAL REPAIR KIT ETK06A

3+0
standard
+extended **3** YEAR TOTAL
WARRANTY

A finely packaged repair kit containing four elements in a metal briefcase, sealed with special plastic foam and struts for each instrument.

THE KIT INCLUDES:

- Digital multimeter EM420
- Digital clamp-on ammeter EM465
- Phase meter GK7
- Infrared temperature meter EM520A

Type	Packing (pcs) / carton	Catalogue number
ETK06A	1/6	51906A



VOLTAGE TESTER

2+0
standard
+extended **2** YEAR TOTAL
WARRANTY

The voltage tester screwdriver is used for detecting the presence of electrical voltage. Existence of voltage is shown via lighting signal indicator located in the handle of the screwdriver. It can detect voltage in the range from 100V to 250V. The screwdriver has a flat tip.

TECHNICAL FEATURES:

- Length-3.5*140mm
- Voltage range 100-250V~
- GS, CE certificates

Type	Packing (pcs) / carton	Catalogue number
DN-8203	1/480	519203



PHASE METER GK7

3+0
standard
+extended **3** YEAR TOTAL
WARRANTY

A device indicating phase availability in the system. No contact phase indicator featuring sound and light indication of phase availability.

TECHNICAL FEATURES:

- Voltage range: from 50 to 1000V
- Frequency range: from 50 Hz to 500 Hz
- dimensions: length – 62mm

Type	Packing (pcs) / carton	Catalogue number
GK7	60	519GK7





RECHARGEABLE FLASHLIGHT TH2003

1+0
standard
+extended **1** YEAR TOTAL
WARRANTY
TECHNICAL DATA:

- Length: 139mm
- Diameter: 53mm
- LED 1x0.5W
- Battery: 2300mAh
- Material: ABS

- Charging voltage: AC110-220V/50HZ
- Lumens: 50lm
- Colour temperature: 6500K
- Protection charging time: 20 hrs
- Duration time: 8hrs | ON-OFF | IP20

Model	Colour	Packing/Box (pcs)	Catalogue number
Rechargeable flashlight TH2003	red	1/160	100163



RECHARGEABLE FLASHLIGHT TH1008

1+0
standard
+extended **1** YEAR TOTAL
WARRANTY
TECHNICAL DATA:

- Length: 219mm
- Diameter: 130mm
- LED 1x5W
- Battery: 2500mAh
- Material: ABS
- Charging voltage: AC110-220V/50HZ

- Lumens: 150lm
- Colour temperature: 6500K
- Protection charging time: 20 hrs
- Duration time: 8hrs
- ON-OFF
- IP20

Model	Colour	Packing/Box (pcs)	Catalogue number
Rechargeable flashlight TH1008	red	1/24	100164



AA FLASHLIGHT TH1004- PC

1+0
standard
+extended **1** YEAR TOTAL
WARRANTY
TECHNICAL DATA:

- Length: 170mm
- Diameter: 80mm
- LED 9x0.33W
- Battery: 4xAA
- 100164- Material: ABS + PS

- Lumens: 80lm
- Colour temperature: 6500K
- Run time: 5hrs
- ON-OFF
- IP20

Model	Colour	Packing/Box (pcs)	Catalogue number
AA Battery type flashlight TH1004- PC	yellow	1/12	100165





RECHARGEABLE HOBBY LAMP

1+0
standard
+extended **1** YEAR TOTAL
WARRANTY

TECHNICAL DATA:

- Length: 255mm
- Diameter: 70mm
- Height: 140
- 42LED+1x0,5W
- Battery: 2300mAh
- Material: ABS + PS

- Charging time: 14H
- Charging voltage: 100-230VAC
- Discharge time: 15H
- Available as desk lamp, camping lamp, searchlight function
- with USB charging port

Model	Colour	Packing/Box (pcs)	Catalogue number
Hobby lamp	gray	1/160	100161



AAA BATTERY HEADLAMP

1+0
standard
+extended **1** YEAR TOTAL
WARRANTY

TECHNICAL DATA:

- Length: 60mm
- Width: 40mm
- Height: 50mm

- 2 white+1red LED
- Battery: 3xAAA
- Function: ON 2 white LED/ ON 1 red LED/OFF



Model	Colour	Packing/Box (pcs)	Catalogue number
AAA battery headlamp	black	1/72	100162



RECHARGEABLE HEADLAMP

1+0
standard
+extended **1** YEAR TOTAL
WARRANTY

TECHNICAL DATA:

- Length: 92mm
- Width: 75mm
- Height: 75mm
- 12 LED
- Battery: 4V 500mAh

- Material: COP
- Range: 150m
- Charging time: 12H
- Charging voltage: 100-230VAC
- Discharge time: 12H



Model	Colour	Packing/Box (pcs)	Catalogue number
Rechargeable headlamp	blue	1/120	100160



BATTERIES



Reference IEC	Type	Serie	Voltage (V)	Diameter (mm)	Height (mm)	Packing/Box (pcs)	Catalogue number
LR03	AAA	High energy	1.5	10.5	44.5	1/4	M070125
LR03	AAA	Max tech	1.5	10.5	44.5	1/4	M070261
LR6	AA	High energy	1.5	14.5	50.5	1/4	M070117
LR6	AA	Max tech	1.5	14.5	50.5	1/4	M070257



BATTERIES



M070284



M070110



M070057

Reference IEC	Type	Serie	Voltage (V)	Diameter (mm)	Height (mm)	Packing/Box (pcs)	Catalogue number
LR1		Professional electronic	1.5	12	30.2	1/1	M070284
LR14	C	Long Life	1.5	26.2	50	1/2	M070087
LR20	D	Long Life	1.5	34.2	61.5	1/2	M070113
3R12	4.5V	Super Life	4.5		67	1/1	M070057
LR22	9V	Long Life	9		48.5	1/1	M070110



BATTERIES



M070236

Reference IEC	Type	Serie	Voltage (V)	Diameter (mm)	Height (mm)	Packing/Box (pcs)	Catalogue number
8LR932	A23 GA	Professional electronic	12	10.3	8.5	1/1	M070236
V27A	A27 GA	Professional electronic	12	7.7	28.2	1/1	M070132



BATTERIES



Reference IEC	Type	Serie	Voltage (V)	Diameter (mm)	Height (mm)	Packing/Box (pcs)	Catalogue number
DL2016	CR2016	Professional electronic	3	20	1.6	1/1	M070011
DL2025	CR2025	Professional electronic	3	20	2.5	1/1	M070220
DL2032	CR2032	Professional electronic	3	20	3.2	1/1	M070221
LR44	V 13 GA	Professional electronic	1.5	11.6	5.4	1/1	M070259





INSTRUMENT FOR MANUAL CRIMPING OF CONDUCTORS HD – 005 TYPE

2+0
standard
+extended **2** YEAR TOTAL
WARRANTY

FUNCTIONS:

- Crimping of naked cable terminals

TECHNICAL DATA:

- Possibility for crimping of cable conductors up to 10mm²
- Form of the crimping head: hexahedral²
- Weight of the instrument: 0.49kg
- Length of the instrument: 220mm
- Packing: blister

Type	Packing (pcs) / carton	Catalogue number
HD – 005	20	59308



INSTRUMENT FOR MANUAL CRIMPING OF CONDUCTORS G – 301H TYPE

2+0
standard
+extended **2** YEAR TOTAL
WARRANTY

FUNCTIONS:

- Crimping of isolated cable terminals

TECHNICAL DATA:

- Possibility for crimping of cable conductors up to 6mm²
- Form of the crimping head: hexahedral
- Weight of the instrument: 0.49kg
- Length of the instrument: 220mm
- Packing: blister

Type	Packing (pcs) / carton	Catalogue number
G – 301H	20	59307



CRIMPING PLIERS SN – 003 TYPE

2+0
 standard
 +extended **2** YEAR TOTAL
 WARRANTY
FUNCTIONS:

- Crimping of naked cable terminals and joining bushes

TECHNICAL DATA:

- Possibility for crimping of cable conductors from 6 to 16mm²
- Form of the crimping head: hexahedral
- Weight of the instrument: 0.39kg
- Length of the instrument: 190mm
- Packing: blister

Type	Packing (pcs) / carton	Catalogue number
SN – 003	10 / 20	59309



MECHANICAL CABLE CUTTING PLIERS CC – 325 TYPE

2+0
 standard
 +extended **2** YEAR TOTAL
 WARRANTY
FUNCTIONS:

- Cutting of aluminum or copper cable conductors
- Cutting of conductors with metal bearing core

TECHNICAL DATA:

- Maximum section of the cable:
 - for aluminum conductors up to 150mm²
 - for copper conductors up to 150mm²

- Cutting power: 15T
- Presence of cutting mechanism type ratchet
- Presence of brake of the cutting mechanism
- Weight of the instrument: 0.58kg
- Length of the instrument: 260mm
- Packing: blister

Type	Packing (pcs) / carton	Catalogue number
CC – 325	5 / 10	59305



MECHANICAL CABLE CUTTING PLIERS CC – 400 TYPE

2+0
 standard
 +extended **2** YEAR TOTAL
 WARRANTY
FUNCTIONS:

- Cutting of aluminum or copper cable conductors
- Cutting of conductors with metal bearing core

TECHNICAL DATA:

- Maximum section of the cable:
 - - for aluminum conductors up to 400mm²
 - - for copper conductors up to 350mm²

- Cutting power: 15T
- Presence of cutting mechanism type ratchet
- Presence of brake of the cutting mechanism
- Weight of the instrument: 1.25kg
- Length of the instrument: 360mm
- Packing: blister

Type	Packing (pcs) / carton	Catalogue number
CC – 400	5	59304





MECHANICAL CABLE CUTTING PLIERS HS – 250 TYPE

2+0 standard +extended
2 YEAR TOTAL WARRANTY
FUNCTIONS:

- Cutting of aluminum or copper cable conductors
- Cutting of conductors with metal bearing core

- Weight of the instrument: 1.43kg
- Length of the instrument: 540mm
- Packing: blister

TECHNICAL DATA:

- Maximum section of the cable:
 - for aluminum conductors up to 240mm²
 - for copper conductors up to 185mm²

Type	Packing (pcs) / carton	Catalogue number
HS – 250	10	59306



HYDRAULIC CRIMPING PLIERS HT - 300 TYPE

2+0 standard +extended
2 YEAR TOTAL WARRANTY
FUNCTIONS:

- Crimping of aluminum or copper conductors with cable terminals or bush in the corresponding size

- Section of the crimping conductors:
 - Al conductors - from 16 to 300 mm²
 - Cu conductors – from 16 to 240 mm²

TECHNICAL DATA:

- Crimping head turning at 360° which facilitates the crimping of static conductors
- Device for automatic following of the effort at crimping completion
- Form of the crimping element: hexahedral
- Size of the crimping element: 16, 25, 35, 50, 70, 95,

- Element pressing power: 60kN
- Width of the element: 17mm
- Weight of the instrument: 3.3 kg
- Length: 460mm
- Used hydraulic oil: #15 (hydraulic oil with viscosity 15)
- Metal box for the instrument
- A set of congestion hoops for the hydraulic cylinder

Type	Packing (pcs) / carton	Catalogue number
HT - 300	2	59300



HYDRAULIC CRIMPING PLIERS KYQ-300B TYPE

2+0 standard +extended
2 YEAR TOTAL WARRANTY
FUNCTIONS:

- Crimping of aluminum or copper conductors with cable terminals or bush in the corresponding size

- Section of the crimping conductors:
 - Al conductors - from 16 to 300 mm²
 - Cu conductors – from 16 to 240 mm²

TECHNICAL DATA:

- Device for automatic following of the effort at crimping completion
- Form of the crimping element: hexahedral
- Size of the crimping element: 16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300 mm²

- Element pressing power: 100kN
- Width of the element: 22mm
- Weight of the instrument: 6.8 kg
- Length: 500mm
- Used hydraulic oil: #23 (hydraulic oil with viscosity 23)
- Metal box for the instrument
- A set of congestion hoops for the hydraulic cylinder

Type	Packing (pcs) / carton	Catalogue number
KYQ-300B	2	59302



2+0
standard
+extended

2 YEAR TOTAL
WARRANTY

HYDRAULIC CRIMPING PLIERS YQK-300 TYPE



FUNCTIONS:

- Crimping of aluminum or copper conductors with cable terminals or bush in the corresponding size

TECHNICAL DATA:

- Form of the crimping element: hexahedral
- Size of the crimping element: 10, 16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300 mm²

- Section of the crimping conductors:
 - Al conductors - from 10 to 300 mm²
 - Cu conductors – from 10 to 240 mm²
- Element pressing power: 100kN
- Width of the element: 22mm
- Weight of the instrument: 6.3 kg
- Length: 500mm
- Used hydraulic oil: #15 (hydraulic oil with viscosity 15)
- Metal box for the instrument
- A set of congestion hoops for the hydraulic cylinder



Type	Packing (pcs) / carton	Catalogue number
YQK-300	4	59301



HYDRAULIC CRIMPING PLIERS YQK – 50 TYPE

2+0
standard
+extended

2 YEAR TOTAL
WARRANTY



FUNCTIONS:

Crimping of aluminum or copper conductors with cable terminals or bush in the corresponding size

TECHNICAL DATA:

- Form of the crimping element: hexahedral
- Size of the crimping element: 4, 6, 10, 16, 25, 35, 50 mm²

- Section of the crimping conductors:
 - Al conductors - from 4 to 50mm²
 - Cu conductors – from 4 to 50 mm²
- Element pressing power: 8T
- Width of the element: 10mm
- Weight of the instrument: 2.8 kg
- Length: 310mm
- Used hydraulic oil: #15 (hydraulic oil with viscosity 15)
- Metal box for the instrument
- A set of congestion hoops for the hydraulic cylinder

Type	Packing (pcs) / carton	Catalogue number
YQK – 50	5	59303





HYDRAULIC PUNCHING PLIERS WK - 8 TYPE

2+0
 standard
 +extended **2** YEAR TOTAL
 WARRANTY
FUNCTIONS:

- Cutting through openings in sheet metal with gauge up to 3mm without rotary motion

TECHNICAL DATA:

- Piercing head turning at 360°
- Form of the cutting element: round
- Size of the cutting element: Ø 22, 27.5, 34.3, 40, 49, 60.8mm
- Piercing capacity:
 - sheet metal 3mm – openings up to Ø 30mm
 - sheet metal 2mm – openings up to Ø 60mm

- Element pressing power: 80kN
- Thickness of the element: 25mm
- Weight of the instrument: 3.5 kg
- Used hydraulic oil: #15 (hydraulic oil with viscosity 15)
- Metal box for the instrument
- A set of congestion hoops for the hydraulic cylinder
- Additional set of cutting elements for cable glands – Ø16, 20, 26.2, 32.5, 39, 51, 63 and a square for display devices 46.5x46.5, 68x68 (ordered additionally); Catalogue number 54002

Type	Packing (pcs) / carton	Catalogue number
WK - 8	2	54000
Additional set	2	54002



HYDRAULIC PUNCHING PRESS SYK – 15 TYPE

2+0
 standard
 +extended **2** YEAR TOTAL
 WARRANTY
FUNCTIONS:

- Cutting through openings in sheet metal with gauge up to 3mm without rotary motion

TECHNICAL DATA:

- Protracting piercing head supplied with a hose for the hydraulic oil that gives possibility for piercing openings everywhere on the metal surface
- Form of the cutting element:
 - round
 - square
- Size of the cutting element:
 - square: 32x32mm
 - round openings: Ø 22, 27.5, 34.3, 40, 49, 60.8mm

- Piercing capacity:
 - sheet metal 3mm – openings up to Ø 60.8mm
 - sheet metal 2mm – openings up to Ø 115.5mm
 - square opening up to 110x110mm
- Element pressing power: 15T
- Thickness of the element: 25mm
- Weight of the instrument: 11.5 kg
- Used hydraulic oil: #15 (hydraulic oil with viscosity 15)
- Metal box for the instrument
- A set of congestion hoops for the hydraulic cylinder
- Additional set of cutting elements for cable glands – Ø16, 20, 26.2, 32.5, 39, 51, 63 and a square for display devices 46.5x46.5, 68x68 (ordered additionally); Catalogue number 54002

Type	Packing (pcs) / carton	Catalogue number
SYK – 15	2	54001
Additional set	2	54002





CrV

1000V



3+2
standard
+extended

5 YEAR TOTAL
WARRANTY

VDE INSULATED COMBINED PLIERS

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
COMBINED PLIERS 1000V	200	6 / 36	598001



CrV

1000V



3+2
standard
+extended

5 YEAR TOTAL
WARRANTY

VDE INSULATED LONG NOSE PLIERS

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
LONG NOSE PLIERS 1000V	200	6 / 36	598002



CrV

1000V



3+2
standard
+extended

5 YEAR TOTAL
WARRANTY

VDE INSULATED DIAGONAL PLIERS

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
CUTTING PLIERS 1000V	180	6 / 36	598003



CrV

1000V



3+2
standard
+extended

5 YEAR TOTAL
WARRANTY

VDE INSULATED WIRE STRIPPER

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
WIRE STRIPPER 1000V	160	6 / 36	598004





CrV

1000V
3+2
standard
+extended
 5 YEAR TOTAL
WARRANTY

VDE INSULATED GROOVE JOINT PLIERS

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
GROOVE JOINT PLIERS 1000V	250	6/36	598005



CrV

1000V
3+2
standard
+extended
 5 YEAR TOTAL
WARRANTY

VDE INSULATED SCREWDRIVER- SLOTTED

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
SCREWDRIVER- SLOTTED	2.5X50	6/36	598006
SCREWDRIVER- SLOTTED	3.5X75	6/36	598007
SCREWDRIVER- SLOTTED	4X100	6/36	598008
SCREWDRIVER- SLOTTED	5.5X150	6/36	598009



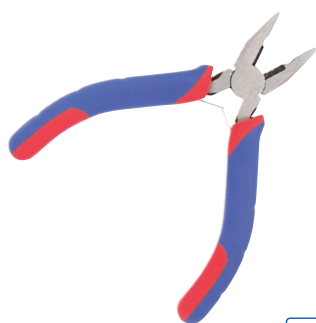
CrV

1000V
3+2
standard
+extended
 5 YEAR TOTAL
WARRANTY

VDE INSULATED SCREWDRIVER- PH

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
SCREWDRIVER	PH0X75	6/36	598010
SCREWDRIVER	PH1X100	6/36	598011
SCREWDRIVER	PH2X125	6/36	598012





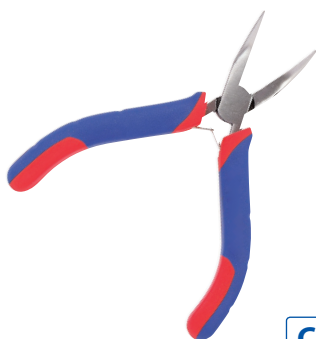
CrV

MINI COMBINED PLIERS

Chrome-vanadium steel for longer life and durability
Bi-material comfort grip handle

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Mini combined pliers	115	6/36	598040



CrV

MINI BENT NOSE PLIERS

Chrome-vanadium steel for longer life and durability
Bi-material comfort grip handle

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Mini bent nose pliers	115	6/36	598041



CrV

MINI DIAGONAL PLIERS

Chrome-vanadium steel for longer life and durability
Bi-material comfort grip handle

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Mini diagonal pliers	115	6/36	598042





CrV

COMBINED PLIERS

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Chrome-vanadium steel for longer life and durability
Bi-material comfort grip handle
Heat treated, fully polished

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Combined pliers	160	6/36	598043
Combined pliers	180	6/36	598044
Combined pliers	200	6/36	598045



CrV

DIAGONAL PLIERS

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Chrome-vanadium steel for longer life and durability
Bi-material comfort grip handle
Heat treated, fully polished

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Diagonal pliers	160	6/36	598046



CrV

LONG NOSE PLIERS

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Chrome-vanadium steel for longer life and durability
Bi-material comfort grip handle
Heat treated, fully polished

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Long nose pliers	160	6/36	598047
Long nose pliers	200	6/36	598048





FLAT NOSE PLIERS

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Chrome-vanadium steel for longer life and durability
Bi-material comfort grip handle
Heat treated, fully polished

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Flat pliers	160	6/36	598049



15-IN-1 MULTI-PURPOSE PLIERS

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Precision punched
Machined surface
Stainless steel components
Compact folding design
Ideal selection for general purpose use

Type	Packing (pcs) / carton	Catalogue number
Multi pliers	4/24	598210



PLASTIC LEVEL

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Durable acrylic vials read plumb, level, 45°
Top read window for convenience
Rubber end caps for shock-resistant
Highly visible vials with magnetic base

Type	Length (mm)	Packing (pcs) / carton	Catalogue number
Level	228.6	6/36	598243



**MAGNETIC SCREWDRIVER- SLOTTED**
3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Screwdriver	6x38	6/36	598070
Screwdriver	3x75	6/36	598071
Screwdriver	3x100	6/36	598072
Screwdriver	4x100	6/36	598073
Screwdriver	5x75	6/36	598074
Screwdriver	5x100	6/36	598075
Screwdriver	5x150	6/36	598076
Screwdriver	6x100	6/36	598077
Screwdriver	6x150	6/36	598078
Screwdriver	6x200	6/36	598079



CrV

**MAGNETIC SCREWDRIVER- PH**
3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Screwdriver	PH2x38	6/36	598080
Screwdriver	PH0x75	6/36	598081
Screwdriver	PH0x100	6/36	598082
Screwdriver	PH1x75	6/36	598083
Screwdriver	PH1x100	6/36	598084
Screwdriver	PH1x150	6/36	598085
Screwdriver	PH2x100	6/36	598086
Screwdriver	PH2x150	6/36	598087
Screwdriver	PH3x150	6/36	598088



CrV

**MAGNETIC SCREWDRIVER- PZ**
3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Screwdriver	PZ2x38	6/36	598089
Screwdriver	PZ0x75	6/36	598090
Screwdriver	PZ1x100	6/36	598091
Screwdriver	PZ2x100	6/36	598092
Screwdriver	PZ3x150	6/36	598093



CrV



6PC PRECISION SCREWDRIVER SET

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Slotted size: 1.4mm, 2.0mm, 2.4mm, 3.0mm
PH size: PH0, PH1
Carbon steel blade with black finish
With chrome plated handle

Type	Packing (pcs) / carton	Catalogue number
Screwdriver set	6/36	598094



MAGNETIC BIT HOLDER

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Packing (pcs) / carton	Catalogue number
Bit holder	6/36	598096



ALUMINUM FIXED BLADE UTILITY KNIFE

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Razor-sharp tempered SK5 blade
Aluminum alloy housing
Fixed blade for more cutting power
3PC blades included

Type	Packing (pcs) / carton	Catalogue number
Aluminium utility knife	6/36	598201



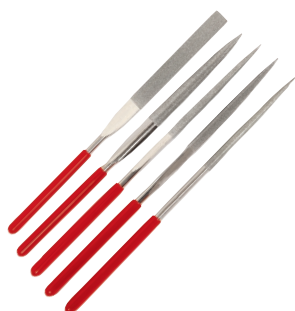


HAMMER WITH HARDWOOD HANDLE

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Drop forged carbon steel
Fully heat treated & polished head

Type	Packing (pcs) / carton	Catalogue number
Hammer 300gr	6/36	598230
Hammer 500gr	6/36	598231



5PC DIAMOND NEEDLE FILE SET

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Fine diamond grit
Perfect for machinists, gunsmiths, jewelers and hobbyists
Size: 3x140mm, 150 grit
Dipped grip handle

Type	Packing (pcs) / carton	Catalogue number
Needle file	6/24	598232



3-IN-1 STAPLE GUN SET

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

1PC staple gun
500PC 8x1.2x11.3mm staples
500PC 12mm staples
500PC 14mm nails
1PC handy storage case

Type	Packing (pcs) / carton	Catalogue number
Staple gun	6	598246



CHROME PLATING TAPE MEASURE

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Type Length	Packing (pcs) / carton	Catalogue number
Tape measure	5m	4/24	598241





CUTTER

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Length (mm)	Packing (pcs) / carton	Catalogue number
Cutter	760	1	598245



MULTI-PURPOSE WIRING TOOL

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Ergonomic molded anti-slip grid handle
Crimp insulated and non insulated cable terminals

Type	Size (mm)	Cable size section	Packing (pcs) / carton	Catalogue number
Wiring tool	200	0.75-6.0mm	6/36	598030



AUTOMATIC WIRE STRIPPER

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Wire is automatically gripped and stripped with the same motion
Adjustable dial
Comfort grip handle

Type	Size (mm)	Cable size section	Packing (pcs) / carton	Catalogue number
Wiring tool	168	1.0-3.2mm	6/36	598032





UNTIL SUPPLY
LAST

VDE CABLE CUTTING PLIERS, 1000V

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
VDE Cable Cutting Pliers	180	1 / 6 / 60	599200180



UNTIL SUPPLY
LAST

VDE SCREWDRIVER, SLOTTED, 1000V

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Size (mm)	Lenght (mm)	Packing (pcs) / carton	Catalogue number
VDE Screwdriver, Slotted	5,5	125	1 / 12 / 240	599055125



UNTIL SUPPLY
LAST

BENT NOSE MINI PLIERS

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Bent Nose Mini Pliers	115	1 / 12 / 120	592400115





UNTIL SUPPLY
LAST

COMBINATION PLIERS

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Combination pliers	200	1 / 6 / 36	592100200



UNTIL SUPPLY
LAST

SIDE CUTTING PLIERS

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Side Cutting Pliers	180	1 / 6 / 36	592200180



UNTIL SUPPLY
LAST

CUTTING PLIERS, HEAVY DUTY

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Cutting Pliers, Heavy Duty	180	1 / 6 / 36	592201180





UNTIL SUPPLY
LAST

SCREWDRIVER SLOTTED

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Size (mm)	Lenght (mm)	Packing (pcs) / carton	Catalogue number
Screwdriver	4	150	1 / 12 / 120	593140150
Screwdriver	5	100	1 / 12 / 120	593150100
Screwdriver	5	150	1 / 12 / 120	593150150
Screwdriver	6	100	1 / 12 / 120	593160100
Screwdriver	6	150	1 / 12 / 120	593160150
Screwdriver	8	150	1 / 6 / 60	593180150



UNTIL SUPPLY
LAST

SCREWDRIVER PH

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Size (mm)	Lenght (mm)	Packing (pcs) / carton	Catalogue number
Screwdriver	PH0	75	1 / 12 / 120	593200075
Screwdriver	PH0	100	1 / 12 / 120	593200100
Screwdriver	PH0	150	1 / 12 / 120	593200150
Screwdriver	PH1	75	1 / 12 / 120	593201075
Screwdriver	PH1	100	1 / 12 / 120	593201100
Screwdriver	PH1	150	1 / 12 / 120	593201150
Screwdriver	PH2	100	1 / 12 / 120	593202100
Screwdriver	PH2	150	1 / 12 / 120	593202150
Screwdriver	PH3	150	1 / 6 / 60	593203150



UNTIL SUPPLY
LAST

SCREWDRIVER PZ

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Size (mm)	Lenght (mm)	Packing (pcs) / carton	Catalogue number
Screwdriver	PZ0	75	1 / 12 / 120	593300075
Screwdriver	PZ1	100	1 / 12 / 120	593301100
Screwdriver	PZ2	150	1 / 12 / 120	593302150
Screwdriver	PZ3	150	1 / 6 / 60	593303150





SCREWDRIVER T

3+2
standard
+extended
5 YEAR TOTAL
WARRANTY

Type	Size (mm)	Lenght (mm)	Packing (pcs) / carton	Catalogue number
Screwdriver	T5	75	1 / 12 / 120	593400005
Screwdriver	T6	75	1 / 12 / 120	593400006
Screwdriver	T7	75	1 / 12 / 120	593400007
Screwdriver	T8	75	1 / 12 / 120	593400008
Screwdriver	T9	75	1 / 12 / 120	593400009
Screwdriver	T10	100	1 / 12 / 120	593400010
Screwdriver	T15	100	1 / 12 / 120	593400015
Screwdriver	T20	100	1 / 12 / 120	593400020
Screwdriver	T25	100	1 / 12 / 120	593400025
Screwdriver	T27	100	1 / 12 / 120	593400027
Screwdriver	T30	100	1 / 12 / 120	593400030
Screwdriver	T40	150	1 / 6 / 60	593400040



UNTIL SUPPLY
LAST

SLOTTED BIT 1/4

3+2
standard
+extended
5 YEAR TOTAL
WARRANTY

Type	Size (mm)	Lenght (mm)	Packing (pcs) / hanging card	Packing (pcs) / carton	Catalogue number
Slotted bit	4,0	25	2	125 / 500	594104025
Slotted bit	4,5	25	2	125 / 500	594104525
Slotted bit	5,5	25	2	125 / 500	594105525
Slotted bit	6,0	25	2	125 / 500	594106025
Slotted bit	6,5	25	2	125 / 500	594106525
Slotted bit	8,0	25	2	125 / 500	594108025
Slotted bit	9,0	25	2	125 / 500	594109025



UNTIL SUPPLY
LAST

SLOTTED BIT 1/4

3+2
standard
+extended
5 YEAR TOTAL
WARRANTY

Type	Size (mm)	Lenght (mm)	Packing (pcs) / hanging card	Packing (pcs) / carton	Catalogue number
Slotted bit	4,0	50	2	125 / 500	594114050
Slotted bit	4,5	50	2	125 / 500	594114550
Slotted bit	5,5	50	2	125 / 500	594115550
Slotted bit	6,0	50	2	125 / 500	594116050
Slotted bit	6,5	50	2	125 / 500	594116550
Slotted bit	8,0	50	2	125 / 500	594118050
Slotted bit	9,0	50	2	125 / 500	594119050



UNTIL SUPPLY
LAST



PH BIT 1/4

3+2
standard
+extended **5** YEAR TOTAL
WARRANTYUNTIL SUPPLY
LAST

Type	Size (mm)	Lenght (mm)	Packing (pcs) / hanging card	Packing (pcs) / carton	Catalogue number
Slotted bit	PH0	25	2	125 / 500	594200025
Slotted bit	PH1	25	2	125 / 500	594200125
Slotted bit	PH3	25	2	125 / 500	594200325
Slotted bit	PH3	50	2	125 / 500	594210350
Slotted bit	PH4	50	2	125 / 500	594210450

PZ BIT 1/4

3+2
standard
+extended **5** YEAR TOTAL
WARRANTYUNTIL SUPPLY
LAST

Type	Size (mm)	Lenght (mm)	Packing (pcs) / hanging card	Packing (pcs) / carton	Catalogue number
PZ bit	PZ0	25	2	125 / 500	594300025
PZ bit	PZ1	25	2	125 / 500	594300125
PZ bit	PZ3	25	2	125 / 500	594300325
PZ bit	PZ1	50	2	125 / 500	594310150
PZ bit	PZ3	50	2	125 / 500	594310350
PZ bit	PZ4	50	2	125 / 500	594310450

TORX BIT

3+2
standard
+extended **5** YEAR TOTAL
WARRANTYUNTIL SUPPLY
LAST

Type	Size (mm)	Lenght (mm)	Packing (pcs) / hanging card	Packing (pcs) / carton	Catalogue number
TORX bit	T4	25	2	125 / 500	594400425
TORX bit	T5	25	2	125 / 500	594400525
TORX bit	T6	25	2	125 / 500	594400625
TORX bit	T7	25	2	125 / 500	594400725
TORX bit	T8	25	2	125 / 500	594400825
TORX bit	T9	25	2	125 / 500	594400925
TORX bit	T10	25	2	125 / 500	594401025
TORX bit	T15	25	2	125 / 500	594401525
TORX bit	T20	25	2	125 / 500	594402025
TORX bit	T25	25	2	125 / 500	594402525
TORX bit	T27	25	2	125 / 500	594402725
TORX bit	T30	25	2	125 / 500	594403025
TORX bit	T40	25	2	125 / 500	594404025
TORX bit	T10	50	2	125 / 500	594411050
TORX bit	T15	50	2	125 / 500	594411550
TORX bit	T20	50	2	125 / 500	594412050
TORX bit	T25	50	2	125 / 500	594412550
TORX bit	T27	50	2	125 / 500	594412750
TORX bit	T40	50	2	125 / 500	594414050

HEXAGON SOCKET 1/4

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY



Type	Size (mm)	Packing (pcs) / carton	Catalogue number
1/4" socket	4mm	1 / 14 / 280	595300040
1/4" socket	4.5mm	1 / 14 / 280	595300045
1/4" socket	5mm	1 / 14 / 280	595300050
1/4" socket	5.5mm	1 / 14 / 280	595300055
1/4" socket	6mm	1 / 14 / 280	595300060
1/4" socket	7mm	1 / 14 / 280	595300070
1/4" socket	8mm	1 / 14 / 280	595300080
1/4" socket	9mm	1 / 14 / 280	595300090
1/4" socket	10mm	1 / 14 / 280	595300100
1/4" socket	11mm	1 / 14 / 280	595300110
1/4" socket	12mm	1 / 14 / 280	595300120
1/4" socket	13mm	1 / 14 / 280	595300130
1/4" socket	14mm	1 / 14 / 280	595300140



UNTIL SUPPLY
LAST

HEXAGON SOCKET 3/8

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY



Type	Size (mm)	Packing (pcs) / carton	Catalogue number
3/8" socket	6mm	1 / 14 / 280	595400006
3/8" socket	7mm	1 / 14 / 280	595400007
3/8" socket	8mm	1 / 14 / 280	595400008
3/8" socket	9mm	1 / 14 / 280	595400009
3/8" socket	10mm	1 / 14 / 280	595400010
3/8" socket	11mm	1 / 14 / 280	595400011
3/8" socket	12mm	1 / 14 / 280	595400012
3/8" socket	13mm	1 / 12 / 240	595400013
3/8" socket	14mm	1 / 12 / 240	595400014
3/8" socket	15mm	1 / 12 / 240	595400015
3/8" socket	16mm	1 / 12 / 240	595400016
3/8" socket	17mm	1 / 12 / 240	595400017
3/8" socket	18mm	1 / 10 / 200	595400018
3/8" socket	19mm	1 / 10 / 200	595400019
3/8" socket	20mm	1 / 10 / 200	595400020
3/8" socket	21mm	1 / 8 / 160	595400021



UNTIL SUPPLY
LAST

HEXAGON SOCKET 1/2

3+2
standard
+extended5 YEAR TOTAL
WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
1/2" socket	10mm	1 / 10 / 200	595500010
1/2" socket	11mm	1 / 10 / 200	595500011
1/2" socket	12mm	1 / 10 / 200	595500012
1/2" socket	13mm	1 / 10 / 200	595500013
1/2" socket	14mm	1 / 10 / 200	595500014
1/2" socket	15mm	1 / 10 / 200	595500015
1/2" socket	16mm	1 / 10 / 200	595500016
1/2" socket	17mm	1 / 8 / 160	595500017
1/2" socket	18mm	1 / 8 / 160	595500018
1/2" socket	19mm	1 / 8 / 160	595500019
1/2" socket	20mm	1 / 8 / 160	595500020
1/2" socket	21mm	1 / 8 / 160	595500021
1/2" socket	22mm	1 / 8 / 160	595500022
1/2" socket	23mm	1 / 6 / 120	595500023
1/2" socket	24mm	1 / 6 / 120	595500024
1/2" socket	27mm	1 / 5 / 100	595500027
1/2" socket	30mm	1 / 4 / 80	595500030
1/2" socket	32mm	1 / 4 / 80	595500032

UNTIL SUPPLY
LAST

RACHET HANDLE

3+2
standard
+extended5 YEAR TOTAL
WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Ratchet handle	3/8"	1 / 6 / 36	595100038

UNTIL SUPPLY
LAST



UNTIL SUPPLY
LAST

COMBINATION SPANNER

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Size (mm)	Lenght (mm)	Offset ring end	Packing (pcs) / carton	Catalogue number
Combination Spanner	9	6,5	15°	1 / 12 / 300	596200009
Combination Spanner	11	7,5	15°	1 / 12 / 300	596200011
Combination Spanner	15	9,5	15°	1 / 12 / 180	596200015
Combination Spanner	16	10,0	15°	1 / 12 / 180	596200016
Combination Spanner	18	11,0	15°	1 / 12 / 120	596200018
Combination Spanner	20	12,0	15°	1 / 6 / 120	596200020
Combination Spanner	21	12,3	15°	1 / 6 / 90	596200021
Combination Spanner	22	12,5	15°	1 / 6 / 90	596200022
Combination Spanner	23	12,8	15°	1 / 6 / 90	596200023
Combination Spanner	24	13,0	15°	1 / 6 / 60	596200024
Combination Spanner	27	14,5	15°	1 / 6 / 60	596200027



DOUBLE OPEN SPANNER

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Size (mm)	Lenght (mm)	Packing (pcs) / carton	Catalogue number
Double Open Spanner	6x7	120	1 / 12 / 300	596300067
Double Open Spanner	8x9	140	1 / 12 / 300	596300089
Double Open Spanner	14x15	185	1 / 12 / 240	596301415
Double Open Spanner	16x17	200	1 / 12 / 180	596301617
Double Open Spanner	18x19	220	1 / 12 / 180	596301819
Double Open Spanner	20x22	235	1 / 6 / 120	596302022
Double Open Spanner	21x23	245	1 / 6 / 60	596302123
Double Open Spanner	25x28	270	1 / 6 / 48	596302528
Double Open Spanner	30x32	295	1 / 6 / 48	596303032



UNTIL SUPPLY
LAST

DOUBLE OFFSET RING SPANNER

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Size (mm)	Lenght (mm)	Offset ring end	Packing (pcs) / carton	Catalogue number
Double Offset Ring Spanner	6x7	165	75°	1 / 12 / 240	596400067
Double Offset Ring Spanner	8x9	180	75°	1 / 12 / 240	596400089
Double Offset Ring Spanner	14x15	235	75°	1 / 6 / 150	596401415
Double Offset Ring Spanner	16x17	250	75°	1 / 6 / 150	596401617
Double Offset Ring Spanner	18x19	265	75°	1 / 6 / 120	596401819
Double Offset Ring Spanner	20x22	285	75°	1 / 6 / 60	596402022
Double Offset Ring Spanner	21x23	305	75°	1 / 6 / 60	596402123
Double Offset Ring Spanner	24x27	325	75°	1 / 6 / 60	596402427
Double Offset Ring Spanner	25x28	340	75°	1 / 6 / 30	596402528
Double Offset Ring Spanner	30x32	375	75°	1 / 6 / 30	596403032



UNTIL SUPPLY
LAST



UNTIL SUPPLY
LAST

LEVEL

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Level	1200	1 / 24	597500120



UNTIL SUPPLY
LAST

SAW

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Saw	400	1 / 6 / 60	597200400



UNTIL SUPPLY
LAST

KNIFE SPARE BLADES

3+2
standard
+extended **5** YEAR TOTAL
WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Knife spare blades	9	10 / 40 / 600	597310009

