

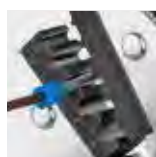


35 YEARS

2016



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Cable terminals and connectors

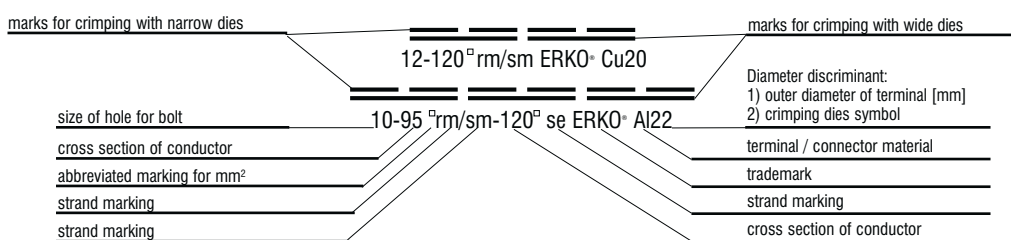
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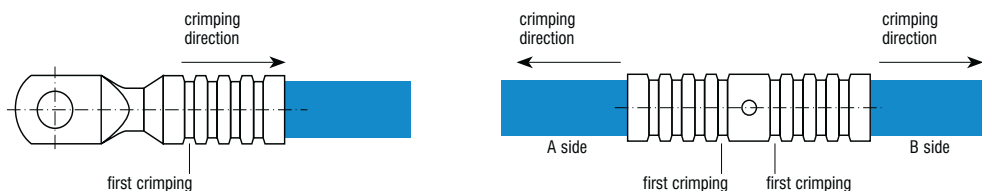
	Single indent for copper terminals without insulation made according to DIN 46234 and pin terminals made according to DIN 46230 for wire of cross section of $0,5 \div 120\text{mm}^2$, and for copper tubular terminals for wire of cross section of $0,5 \div 6\text{mm}^2$ (e.g. KOA, KWA, KLA).
	Oval for copper ring terminals with polyamide insulation made according to DIN 46237 and DIN 46234, for copper pin terminals with polyamide insulation made according to DIN 46230 and DIN 46231 for wire of cross section of $0,5 \div 120\text{mm}^2$ (e.g. KOE, KWE) and for insulated receptacles and tabs (MSE, TSE).
	Trapezoidal for copper cable end-sleeves made according to DIN 46228 Part 1 and Part 4 and double copper cable end-sleeves for wire of cross section of $0,5 \div 185\text{mm}^2$ (e.g. TA, TE, TV).
	Square for copper cable end-sleeves made according to DIN 46228 Part 1 and Part 4 and double copper cable end-sleeves for wire of cross section of $0,5 \div 10\text{mm}^2$ (e.g. TA, TE, TV).
	Wrapped over wire conductor and insulation, for brass terminals made according to DIN 46247, DIN 46248 and DIN 46225 for wire of cross section of $0,5 \div 6\text{mm}^2$ (e.g. MS, TS, KOP, KNP).
	Round forming of aluminum sector conductors of cross section of $25 \div 300\text{re}$, $16 \div 240\text{rm}$ for aluminum terminals. re – singlestrand wire cross section in mm^2 , rm – multistrand wire cross section in mm^2
	Hexagonal for copper and aluminum terminals and connectors for wire of cross section of $6 \div 625\text{mm}^2$ (profile according to DIN 48083).

Crimping of terminals and connectors:

1. Select terminal or connector appropriate for the wire (cross section, material, type of wire).
2. Determine proper form of crimping.
3. Strip the cable to the same length as tubular part of terminal.
4. Before crimping the wire must be cleaned of oxides and corrosive deposits.
5. Insert the wire to the end of tubular part of terminal or to connector narrowing.
6. Choose appropriate tool and dies (check last column of terminals sizes charts).
7. Keep crimping until dies clamp or overflow valve of hydraulic drive responds.
8. Crimping may be single (e.g. KOE, KOA) or multiple (e.g. KCR, KLA). Copper and aluminum tubular terminals made according to DIN have marks for crimping as shown below (fig.):



9. It is essential to keep the direction of crimping terminals and connectors as shown below (fig.):



NOTE

Tools and terminals system provided by ERKO ensures high performance throughout the period of use. The use of third-party products (made in accordance with other standards) may cause much lower quality connections.

Crimping tools

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PR 33 Universal hand press



Universal hand press for terminals:

- with and without insulation of 0,5 ÷ 6 mm²
- cable end-sleeves of 0,5 ÷ 35 mm²

Features:

- easily exchangeable dies (see chart below)
- high repetitiveness and precision of crimping
- two-component grips prevents hand slipping
- ratcheting mechanism enables easy crimping using minimum force
- an eccentric for adjusting clamping force
- selection of dies for individual needs
- available with sets of dies in functional case

Length: 220mm; Weight (without dies): 500g



PR 33-Z5 set





















PR 33-Z5 set (includes 5 sets of dies):

PR 33-A6, PR 33-E6, PR 33-T6, PR 33-T16, PR 33-S6



Dies for PR 33 universal hand press

Type of die	Terminal type	Description	Cross section [mm ²]	Form of crimping
 PR_33-A6		For all types of terminals and connectors without insulation (except cable end-sleeves, receptacles and tabs)	0,5÷6	
 PR_33-E6		For all types of insulated terminals and connectors (except cable end-sleeves)	0,5÷6	
 PR_33-T6		For cable end-sleeves with and without insulation	0,5÷6	
 PR_33-T16		For cable end-sleeves with and without insulation	6÷16	
 PR_33-T35		For cable end-sleeves with and without insulation	25÷35	
 PR_33-S6		For receptacles and tabs without insulation	0,5÷6	



T 16S Hand press

NEW

Press for:

- cable end-sleeves without insulation (TA)
- cable end-sleeves with insulation (TE, TV)

Wire cross section of 0,08 ÷ 16 mm²

Features:

- hexagonal form of crimping
- movable centering insert for a precise location of small cross sections
- two-component grips prevents hand slipping
- ratcheting mechanism enables easy crimping using minimum force

Length: 215 mm; Weight: 550 g



Form of crimping on wire



T10 Hand press

Press for:

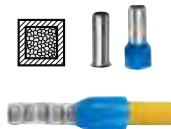
- cable end-sleeves without insulation (TA)
- cable end-sleeves with insulation (TE, TV)

Features:

- two-component grips prevents hand slipping
- ratcheting mechanism enables easy crimping using minimum force
- an eccentric for adjusting clamping force

Wire cross section of 0,5 ÷ 10 mm²

Length: 180 mm; Weight: 420 g



Form of crimping on wire



T 22-6 Hand press

Press for:

- cable end-sleeves without insulation (TA)
- cable end-sleeves with insulation (TE, TV)

Wire cross section of 0,5 ÷ 6 mm²

Features:

- ratcheting mechanism enables easy crimping using minimum force
- an eccentric for adjusting clamping force

Length: 200 mm; Weight: 450 g

Socet no.	Cross section [mm ²]	Form of crimping
1	0,5 ÷ 0,75	
2	1 ÷ 1,5	
3	2,5	
4	4	
5	6	



Form of crimping on wire



T 11-16 Hand press

Press for:

- cable end-sleeves without insulation (TA)
- cable end-sleeves with insulation (TE, TV)

Wire cross section of 6 ÷ 16 mm²

Features:

- ratcheting mechanism enables easy crimping using minimum force
- an eccentric for adjusting clamping force

Length: 210 mm; Weight: 550 g

Socet no.	Cross section [mm ²]	Form of crimping
1	6	
2	10	
3	16	



Form of crimping on wire



T 10-16V Hand press



Press for:

- double cable end-sleeves with insulation (TV)
- Wire cross section of 2x10 mm² and 2x16 mm²

Features:

- ratcheting mechanism enables easy crimping using minimum force
 - an eccentric for adjusting clamping force
- Length: 210 mm; Weight: 550 g

Socet no.	Cross section [mm ²]	Form of crimping
1	2x10	
2	2x16	



Form of crimping on wire

T 25-35 Hand press



Press for:

- cable end-sleeves without insulation (TA)
 - cable end-sleeves with insulation (TE, TV)
- Wire cross section of 25 ÷ 35 mm².

Features:

- ratcheting mechanism enables easy crimping using minimum force
 - an eccentric for adjusting clamping force
- Length: 210 mm; Weight: 550 g

Socet no.	Cross section [mm ²]	Form of crimping
1	25	
2	35	



Form of crimping on wire

T 50 Hand press



Press for:

- cable end-sleeves without insulation (TA)
 - cable end-sleeves with insulation (TE)
- Wire cross section of 50 mm².

Features:

- ratcheting mechanism enables easy crimping using minimum force
 - an eccentric for adjusting clamping force
- Length: 210 mm; Weight: 550 g

Socet no.	Cross section [mm ²]	Form of crimping
1	50	



Form of crimping on wire

T 3 Crimping pliers



Pliers for:

- cable end-sleeves without insulation (TA)
 - cable end-sleeves with insulation (TE, TV)
- Wire cross section of 0,25 ÷ 2,5 mm².

- single-component PCV insulation on grips
- drop forged

Length: 150 mm; Weight: 140 g



Form of crimping on wire



TC 6 Front pliers

Pliers for:

- cable end-sleeves without insulation (TA)
- cable end-sleeves with insulation (TE, TV)

Wire cross section of 0,5 ÷ 6 mm².

- single-component PCV insulation on grips
- drop forged

Length: 180 mm; Weight: 235 g



Form of crimping on wire



T 16 Crimping pliers

Pliers for:

- cable end-sleeves without insulation (TA)
- cable end-sleeves with insulation (TE, TV)

Wire cross section of 0,25 ÷ 16 mm².

- single-component PCV insulation on grips
- drop forged

Length: 180 mm; Weight: 250 g



Form of crimping on wire



A 22-2 Hand press

Press for:

- ring terminals (KOA), spade terminals (KNA), pin terminals (KWA) without insulation
- tubular connectors without insulation (KLA)

Wire cross section of 0,5 ÷ 2,5 mm².

Features:

- ratcheting mechanism enables easy crimping using minimum force
- an eccentric for adjusting clamping force

NOTE: do not use for cable end-sleeves, receptacles and tabs

Length: 200 mm; Weight: 450 g



Form of crimping on wire



Socet no.	Cross section [mm ²]	Form of crimping
1	0,5 ÷ 1	
2	1,5 ÷ 2,5	

A 11-6 Hand press

Press for:

- ring terminals (KOA), spade terminals (KNA), pin terminals (KWA) without insulation
- tubular connectors without insulation (KLA), tubular terminals (KCS of 2,5 - 6 mm²)

Wire cross section of 0,5 ÷ 6 mm².

Features:

- ratcheting mechanism enables easy crimping using minimum force
- an eccentric for adjusting clamping force

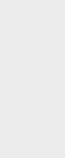
Length: 210 mm; Weight: 550 g



Form of crimping on wire



Socet no.	Cross section [mm ²]	Form of crimping
1	0,5 ÷ 1	
2	1,5 ÷ 2,5	
3	4 ÷ 6	



AE 22-05 Hand press



Press for:

- ring terminals with and without insulation (KOA, KOE)
- spade terminals with and without insulation (KNA),

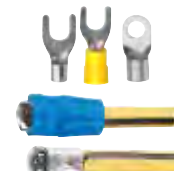
Wire cross section of 0,1 ÷ 0,5 mm².

Features:

- ratcheting mechanism enables easy crimping using minimum force
- an eccentric for adjusting clamping force

Length: 200 mm; Weight: 450 g

Socet no.	Cross section [mm ²]	Form of crimping
1	KOA, KNA 0,1 ÷ 0,5	
2	KOE, KNE 0,1 ÷ 0,5	



Form of crimping on wire

ETA 66 Crimping pliers



Pliers for:

- ring terminals without insulation (KOA)
- spade terminals without insulation (KNA)
- pin terminals without insulation (KWA)
- cable end-sleeves with and without insulation (TA, TE, TV, TP)

Wire cross section of 0,75 ÷ 16 mm².

NOTE: do not use for tubular terminals.

This is not a professional tool, not recommended for intensive work.

Length: 190 mm; Weight: 290 g



Form of crimping on wire



RA 16 Hand press



Press for:

- ring terminals (KOA), spade terminals (KNA), pin terminals (KWA) without insulation
- tubular connectors (KLA), tubular terminals (KCS of 2,5 ÷ 6 mm²)

Wire cross section of 0,5 ÷ 16 mm².

Length: 280 mm; Weight: 530 g

Socet no.	Cross section [mm ²]	Form of crimping
1	0,5 ÷ 1	
2	1,5 ÷ 2,5	
3	4 ÷ 6	
4	10	
5	16	



Form of crimping on wire

E 11-6 Hand press



Press for:

- ring terminals (KOE, KOV), spade terminals (KNE, KNV), pin terminals (KWE, KWV) with insulation
- tubular connectors with insulation (KLE, KLK)

Wire cross section of 0,5 ÷ 6 mm².

Features:

- ratcheting mechanism enables easy crimping using minimum force
- an eccentric for adjusting clamping force

Length: 210 mm; Weight: 550 g

Socet no.	Cross section [mm ²]	Form of crimping
1	0,5 ÷ 1	
2	1,5 ÷ 2,5	
3	4 ÷ 6	



Form of crimping on wire

RE 6 Hand press

Press for:

- ring terminals (KOE, KOV), spade terminals (KNE, KNV), pin terminals (KWE, KWV) with insulation
- tubular connectors with insulation (KLE, KLK)
- receptacles and tabs with insulation (MSE, TSE)

Wire cross section of 0,5 ÷ 6 mm².

NOTE: do not use for cable end-sleeves (TE, TV and TP)

Length: 280 mm; Weight: 530 g



Form of crimping on wire

Socet no.	Cross section [mm ²]	Form of crimping
1	0,5 ÷ 1	
2	1,5 ÷ 2,5	
3	4 ÷ 6	

RE 16 Hand press

Press for:

- ring terminals (KOE, KOV), spade terminals (KNE, KNV), pin terminals (KWE, KWV) with insulation
- tubular connectors with insulation (KLE)

Wire cross section of 10 ÷ 16 mm².

Length: 280 mm; Weight: 530 g



Form of crimping on wire

Socet no.	Cross section [mm ²]	Form of crimping
1	10	
2	16	

S 33-1 Hand press

Press for:

- receptacles and tabs without insulation (MS, TS)

Wire cross section of 0,14 ÷ 1,0 mm².

Features:

- ratcheting mechanism enables easy crimping using minimum force
- an eccentric for adjusting clamping force

NOTE: use only for terminals made according to DIN 46247 and DIN 46248

Length: 200 mm; Weight: 450 g



Form of crimping on wire

Socet no.	Cross section [mm ²]	Form of crimping
1	0,14 ÷ 0,25	
2	0,25 ÷ 0,5	
3	MS 2,8-1	

S 11-6 Hand press

Press for:

- receptacles and tabs without insulation (MS, TS)

Wire cross section of 0,5 ÷ 6 mm².

Features:

- ratcheting mechanism enables easy crimping using minimum force
- an eccentric for adjusting clamping force

NOTE: use only for terminals made according to DIN 46247 and DIN 46248

Length: 210 mm; Weight: 550 g



Form of crimping on wire

Socet no.	Use for terminals MS and TS	Form of crimping
1	6,3-1	
2	4,8-2; 6,3-2	
3	6,3-6	



S 44-2 Hand press



Press for:

- claw terminals (KOP, KNP)
- Wire cross section of 0,5 ÷ 2,5 mm².

Features:

- ratcheting mechanism enables easy crimping using minimum force
- an eccentric for adjusting clamping force

NOTE: use only for terminals made according to DIN 46225

Length: 210 mm; Weight: 550 g

Socket no.	Use for terminals KOP and KNP	Form of crimping
1	0,5 ÷ 1,0	
2	1,5 ÷ 2,5	



S 55 Crimping pliers



Pliers for:

- receptacles and tabs without insulation (MS, TS)

Wire cross section of 0,5 ÷ 6 mm².

Material thickness up to 0,45 mm.

NOTE: do not use for claw terminals (KOP, KNP – require separate crimping on wire and on insulation).

This is not a professional tool, not recommended for intensive work.

Length: 220 mm; Weight: 260 g

Socket No	Cross section [mm ²] crimping on		Form of crimping
	wire	insulation	
1	0,5 ÷ 1,0		
2	1,5 ÷ 2,5	0,5 ÷ 1,0	
3	2,5 ÷ 6	1,5 ÷ 2,5	
4		2,5 ÷ 6	



SK 1, SK 2N Hand press



Press for:

- angle terminals (MK)

Wire cross section of 0,5 ÷ 2,5 mm².

Features:

- ratcheting mechanism enables easy crimping using minimum force
- an eccentric for adjusting clamping force

NOTE: use only for terminals made according to DIN 46346-B

Length: 200 mm; Weight: 450 g

Hand press	Wire cross section [mm ²]	Form of crimping
SK 1	0,5 ÷ 1,0	
SK 2N	1,5 ÷ 2,5	



D 11-6 Hand press



Press for:

- tubular connectors without insulation (KLD)

Wire cross section of 1,5 ÷ 6 mm².

Features:

- ratcheting mechanism enables easy crimping using minimum force
- an eccentric for adjusting clamping force

Length: 210 mm; Weight: 550 g

Socket no.	Cross section [mm ²]	Form of crimping
1	1,5 ÷ 2,5	
2	4	
3	6	





PRJ 468 Hand press

NEW

Press for:

- RJ45 (8P8C), RJ12 (6P6C), RJ11 (4P4C)

Features:

- use with modular plug RJ45, RJ12 and RJ11
- for cutting and crimping flat and round cables
- built-in locking mechanism ensures pressure control
- two-component grips prevents hand slipping

Length: 185 mm; Weight: 750 g



PR 50, PR 50D Hand press

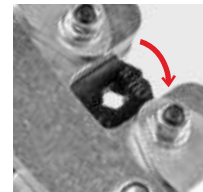
Press for terminals and connectors:

- Cu tubular made outside DIN standard (KCS, KLA, KLR, KLS, KLB)
- Cu tubular made according to DIN standard (KLN, KCL, KCR, KC)

Wire cross section of $6 \div 50 \text{ mm}^2$.

- equipped with rotatable dies US1 or US1-D

Length: 390 mm; Weight: 1,7 kg



Type of die	Terminals and connectors	Description	Form of crimping
US1		For Cu terminals and connectors made outside DIN standard (e.g. KCS) of $6 \div 50 \text{ mm}^2$. Mark on die indicates Cu wire cross-section.	
US1-D		For Cu terminals and connectors made according to DIN standard (e.g. KCR) of $6 \div 50 \text{ mm}^2$. Discriminant on die indicates approximate outer diameter of terminal in mm.	

PR 120, PR 120D, PR 150, PR 150D Hand press

Press for terminals and connectors:

- Cu tubular made outside DIN standard (KCS, KLA, KLR, KLS, KLB)
- Cu tubular made according to DIN standard (KLN, KCL, KCR, KC)

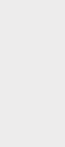
Wire cross section of $10 \div 150 \text{ mm}^2$.

- equipped with rotatable dies US2, US2-D, US3 or US3-D

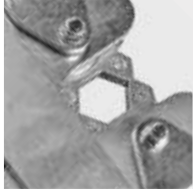
Length: 650 mm; Weight: 4,3 kg



Type of die	Terminals and connectors	Description	Form of crimping
US2		For Cu terminals and connectors made outside DIN standard (e.g. KCS) of $25 \div 150 \text{ mm}^2$. Marks on dies indicate Cu wire cross-section.	
US2-D		For Cu terminals and connectors made according to DIN standard (e.g. KCR) of $25 \div 150 \text{ mm}^2$. Discriminants on dies indicate approximate outer diameter of terminal in mm.	
US3		For Cu terminals and connectors made outside DIN standard (e.g. KCS) of $10 \div 120 \text{ mm}^2$. Marks on dies indicate Cu wire cross-section.	
US3-D		For Cu terminals and connectors made according to DIN standard (e.g. KCR) of $10 \div 120 \text{ mm}^2$. Discriminants on dies indicate approximate outer diameter of terminal in mm.	



PR 95A Hand press



Press for terminals and connectors:

- Al tubular made outside DIN standard (ARC, ALC)
 - Al tubular made according to DIN standard (AR)
- Wire cross section of $16 \div 95 \text{ mm}^2$.
- equipped with rotatable dies US4
- Length: 650 mm; Weight: 4,3 kg

Type of die	Terminals and connectors	Description	Form of crimping
US4		For Al terminals and connectors of $16 \div 95 \text{ mm}^2$. Discriminants on dies indicate approximate outer diameter of terminal in mm.	

Discriminant	Terminal according to DIN (e.g. AR)	ARC terminal	ARG terminal
10	–	25	–
12	16; 25	35	16
14	35	50	25
16	50	70	35
18	70	95	50
22	95	–	–

R 50 Hand press



Press for terminals and connectors:

- without insulation (except cable end-sleeves) (SA dies) of $10 \div 50 \text{ mm}^2$
 - with insulation (except cable end-sleeves) (SE dies) of $10 \div 50 \text{ mm}^2$
 - cable end-sleeves with and without insulation (ST dies) of $25 \div 120 \text{ mm}^2$
 - Cu tubular on cable conductors (SD dies) of $6 \div 50 \text{ mm}^2$
 - Al tubular on cable conductors (SD dies) of $16 \div 50 \text{ mm}^2$
- Length: 575 mm; Weight: 2,7 kg

Type of die	Terminals and connectors	Description	Form of crimping
SA		For Cu ring terminals without insulation of $10 \div 50 \text{ mm}^2$.	
SE		For Cu terminals and connectors with insulation (except cable end-sleeves) of $10 \div 50 \text{ mm}^2$.	
ST		For Cu cable end-sleeves with and without insulation of $25 \div 120 \text{ mm}^2$.	

Type of die	Terminals and connectors	Description	Form of crimping
SD		For Cu tubular terminals and connectors of $6 \div 50 \text{ mm}^2$. For Al tubular terminals and connectors of $16 \div 50 \text{ mm}^2$.	


Type of die	Discriminant	Terminals – cross section [mm^2]				
		DIN Cu tubular	Others Cu tubular	DIN Al tubular	ARC, ALC Thin-walled Al tubular	ARG, ALG, AFG Thick-walled Al tubular
SD	6	10	6			
	7		10			
	8	16	16			
	9				16	
	10	25	25		25	
	12	35	35	16;25	35	16
	14	50	50	35	50	25

PK 95 Crimper

Crimper for AL and AFL overhead line connectors (SK dies).
 Cross section of $16 \div 95 \text{ mm}^2$.
 Length: 650 mm; Weight: 3,9 kg

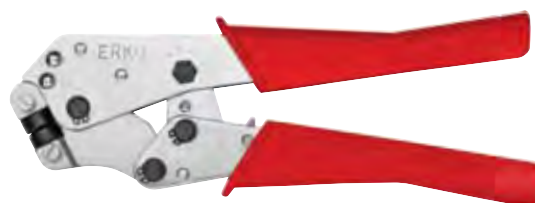


Form of crimping

Type of die	AL connectors cross section	AFL connectors cross section	
	SK 16	16	–
	SK 25	25	16
	SK 35	35	25
	SK 50	50	35
	SK 70	70	50
	SK 95	95	70

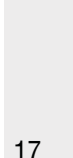
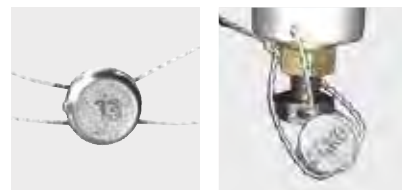
P1 Seal press

Seal press for plastic or lead seals. Without dies as standard.
 Custom dies available on request.
 Length: 210 mm; Weight: 550 g



Type of dies:

- KPCD - concave mark on seal
- KPCF - convex mark on seal
- KPC - dies without mark



EPZC 300 Battery powered hydraulic press



NEW



Battery powered hydraulic press for:

- ring terminals without insulation (ZA dies) of 10 ÷ 120 mm²
- ring terminals with insulation (ZE dies) of 10 ÷ 120 mm²
- cable end-sleeves with and without insulation (ZT dies) of 25 ÷ 185 mm²
- Cu tubular terminals and connectors on cable conductors (ZSC dies) of 6 ÷ 300 mm²
- Al tubular terminals and connectors on cable conductors (ZSC dies) of 16 ÷ 240 mm²
- round forming Al sector conductors (ZF dies) of 16 ÷ 240 mm²

Special features:

- automatic off switch ending operation cycle after a proper crimping is complete – indicated by green LED, not accurate crimping cycle - indicated by red LED
- electronic record of operation cycle – data transfer via USB
- efficient lithium-ion battery
- automatic pressure control
- flip top, rotatable by 330° head

Crimping dies – see chart on page 17.

NOTE: for copper terminals over 120mm² use ZSC dies.

Weight: 3,8 kg (with battery); Force: 50kN

EPZ 300 Battery powered hydraulic press



Battery powered hydraulic press for:

- ring terminals without insulation (ZA dies) of 10 ÷ 120 mm²
- ring terminals with insulation (ZE dies) of 10 ÷ 120 mm²
- cable end-sleeves with and without insulation (ZT dies) of 25 ÷ 185 mm²
- Cu tubular terminals and connectors on cable conductors (ZS dies) of 6 ÷ 300 mm²
- Al tubular terminals and connectors on cable conductors (ZS dies) of 16 ÷ 240 mm²
- round forming Al sector conductors (ZF dies) of 16 ÷ 240 mm²

Special features:

- capacity of lithium-ion battery
- crimping cycle of 3-6 seconds
- automatic retraction after crimping is complete
- flip top, rotatable by 270° head
- electronic control and record of crimping cycle accuracy
- battery level and periodic check-up indicator
- CD-ROM with instalation software included, enabling to read informations about number and accuracy of crimping cycles
- Mini-USB cable and software included

Crimping dies – see chart on page 17.

Weight: 4,2 kg (with battery); Force: 67kN

HRZ 300 Hydraulic hand press



Hydraulic hand press for:

- ring terminals without insulation (ZA dies) of 10 ÷ 120 mm²
- ring terminals with insulation (ZE dies) of 10 ÷ 120 mm²
- cable end-sleeves with and without insulation (ZT dies) of 25 ÷ 185 mm²
- Cu tubular terminals and connectors on cable conductors (ZS dies) of 6 ÷ 300 mm²
- Al tubular terminals and connectors on cable conductors (ZS dies) of 16 ÷ 240 mm²
- round forming Al sector conductors (ZF dies) of 16 ÷ 240 mm²
- flip top, rotatable by 180° head

Designed for electrical works of average intensity.

Crimping dies on page 17.

Dimensions: 129x69x410 mm; Weight (without dies): 4,5 kg; Force: 66,6 kN

Pressure: 530 bar

GZ 300 Hydraulic head

Hydraulic head for:

- ring terminals without insulation (ZA dies) of 10 ÷ 120 mm²
- ring terminals with insulation (ZE dies) of 10 ÷ 120 mm²
- cable end-sleeves with and without insulation (ZT dies) of 25 ÷ 185 mm²
- Cu tubular terminals and connectors on cable conductors (ZS dies) of 6 ÷ 300 mm²
- Al tubular terminals and connectors on cable conductors (ZS dies) of 16 ÷ 240 mm²
- round forming Al sector conductors (ZF dies) of 16 ÷ 240 mm²

Designed for electrical works of high intensity.

Works with H 800 hydraulic pump and AH 100, AH 500, AH 550 electric hydraulic units.

Crimping dies – see chart below.

Dimensions: 129x69x235 mm; Weight (without dies): 2,6 kg; Force: 79,2 kN;

Pressure: 630 bar



PRZ 240 Hand press

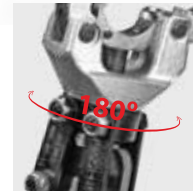
Press for:

- ring terminals without insulation (ZA dies) of 10 ÷ 120 mm²
- ring terminals with insulation (ZE dies) of 10 ÷ 120 mm²
- cable end-sleeves with and without insulation (ZT dies) of 25 ÷ 185 mm²
- Cu tubular terminals and connectors on cable conductors (ZS dies) of 6 ÷ 185 mm²
- Al tubular terminals and connectors on cable conductors (ZS dies) of 16 ÷ 240 mm²

Designed for electrical works of low and average intensity.

Crimping dies – see chart below.

Dimensions: 751x153x60 mm; Weight (without dies): 5,2 kg



Crimping dies for PRZ 240, HRZ 300, EPZ 300 , EPZC 300 presses and GZ 300 head

Type of die	Terminals and Connectors	Description	Form of crimping
		For Cu ring terminals without insulation of 10 ÷ 120 mm ² .	
		For Cu terminals and connectors with insulation of 10 ÷ 120 mm ² .	
		For Cu cable end-sleeves with and without insulation of 25 ÷ 185 mm ² .	
		Round forming Al sector conductors of 16 ÷ 240 mm ² .	
		For Cu tubular terminals and connectors of 6 ÷ 300 mm ² . For Al tubular terminals and connectors of 16 ÷ 240 mm ² .	

Type of die	Discriminant	Terminals – cross section [mm ²]				
		DIN Cu tubular	Others Cu tubular	DIN Al tubular	ARC, ALC Thin-walled Al tubular	ARG, ALG, AFG Thick-walled Al tubular
ZS	6	10	6			
	7		10			
	8	16	16			
	9				16	
	10	25	25		25	
	12	35	35	16;25	35	16
	14	50	50	35	50	25
	16	70	70	50	70	35
	18	95	95	70	95	50
	19		120			
	20	120			120	70
	22	150	150	95;120	150	95
	23		185		185	
	25	185	240	150		120
	28	240		185	240	150
	30		300			185
	32	300		240		

Crimping width of the ZS die for copper and aluminum 7mm.

■ Basic set ZS_K8 for the terminals according to DIN - 12 sizes

■ Full set ZS_K-K7 - 17 sizes.

Type of die	Terminals and Connectors	Description	Form of crimping
		For Cu tubular terminals and connectors of 6 ÷ 300 mm ² . For Al tubular terminals and connectors of 16 ÷ 240 mm ² .	

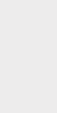
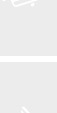
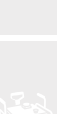
ZSC dies only for battery powered hydraulic press EPZC, for copper tubular terminals and connectors ≥ 120mm².

ZSC only for EPZC	Discriminant from 6 to 19 as in the chart above, from discriminant 20 the chart below					
	20	120	150	95;120	120	70
	22	150	150	95;120	150	95
	23		185		185	
	25	185	240	150		120
	28	240		185	240	150
	30		300			185
	32	300		240		

■ Crimping width of the ZSC die for copper 5mm.

■ Basic set ZSC_K7 for the terminals according to DIN - 17 sizes

■ Full set ZSC_K-K14 - 24 sizes



HR 100-U Hydraulic hand press



Hydraulic hand press for:

- ring terminals without insulation (UA dies) of 10 ÷ 120 mm²
- ring terminals with insulation (UE dies) of 10 ÷ 120 mm²
- cable end-sleeves with and without insulation (UT dies) of 25 ÷ 185 mm²
- Cu tubular terminals and connectors on cable conductors (USM dies) of 6 ÷ 120 mm²
- Al tubular terminals and connectors on cable conductors (USM dies) of 16 ÷ 120 mm²
- round forming Al sector conductors (UF dies) of 16 ÷ 120 mm²

Designed for electrical works of low and average intensity.

Crimping dies – see chart below.

Length: 375 mm; Weight: 3,4 kg; Force: 47 kN

GU 120 Hydraulic head



Hydraulic head for:

- ring terminals without insulation (UA dies) of 10 ÷ 120 mm²
- ring terminals with insulation (UE dies) of 10 ÷ 120 mm²
- cable end-sleeves with and without insulation (UT dies) of 25 ÷ 185 mm²
- Cu tubular terminals and connectors on cable conductors (USM dies) of 6 ÷ 120 mm²
- Al tubular terminals and connectors on cable conductors (USM dies) of 16 ÷ 120 mm²
- round forming Al sector conductors (UF dies) of 16 ÷ 120 mm²

Designed for electrical works of high intensity.

Works with H 800 hydraulic pump and AH 100, AH 500, AH 550 electric hydraulic units.

Crimping dies – see chart below.

Length: 205 mm; Weight (without dies): 1,85 kg; Force: 80 kN

Crimping dies for HR 100-U press and GU 120 hydraulic head

Type of die	Terminals and Connectors	Description	Form of crimping
UA		For Cu ring terminals without insulation of 10 ÷ 120 mm ² .	
UE		For Cu terminals and connectors with insulation of 10 ÷ 120 mm ² .	
UT		For Cu cable end-sleeves with and without insulation of 25 ÷ 185 mm ² .	
UF		Round forming Al sector conductors of 16 ÷ 120 mm ² .	

Type of die	Terminals and Connectors	Description	Form of crimping
USM		For Cu tubular terminals and connectors of 6 ÷ 120 mm ² . For Al tubular terminals and connectors of 16 ÷ 120 mm ² .	

Type of die	Discriminant	Terminals – cross section [mm ²]				
		DIN Cu tubular	Others Cu tubular	DIN Al tubular	ARC, ALC Thin-walled Al tubular	ARG, ALG, AFG Thick-walled Al tubular
USM	6	10	6			
	7		10			
	8	16	16			
	9				16	
	10	25	25		25	
	12	35	35	16;25	35	16
	14	50	50	35	50	25
	16	70	70	50	70	35
	18	95	95	70	95	50
	19		120			
	20	120			120	70

■ USM_K8 basic set for the terminals according to DIN - 8 sizes

■ USM_K-K8 expanded set - 11 sizes

PR 240 Hand press



Press for:

- ring terminals without insulation (OA dies) of 10 ÷ 120 mm²
- ring terminals with insulation (OE dies) of 10 ÷ 120 mm²
- cable end-sleeves with and without insulation (OT dies) of 25 ÷ 185 mm²
- Cu tubular terminals and connectors on cable conductors (OS dies) of 6 ÷ 185 mm²
- Al tubular terminals and connectors on cable conductors (OS dies) of 16 ÷ 240 mm²

Designed for electrical works of low and average intensity.

Crimping dies on page 19.

Length: 750 mm; Weight: 5,2 kg

HR 300 Hydraulic hand press

Hydraulic hand press for:

- ring terminals without insulation (OA dies) of 10 ÷ 120 mm²
- ring terminals with insulation (OE dies) of 10 ÷ 120 mm²
- cable end-sleeves with and without insulation (OT dies) of 25 ÷ 185 mm²
- Cu tubular terminals and connectors on cable conductors (OS dies) of 6 ÷ 300 mm²
- Al tubular terminals and connectors on cable conductors (OS dies) of 16 ÷ 300 mm²
- round forming Al sector conductors (OF dies) of 16 ÷ 240 mm²
- flat forming Al sector conductors (OR dies) of 25 ÷ 120 mm²
- hole punching in Al sector conductors previously flat formed (OK dies)

Designed for electrical works of low and average intensity.

Equipped with rotatable head. Efficient work – 2 hydraulic circuits.

Fast access (low pressure); working (high pressure).

Crimping dies – see chart below.

Length: 415 mm; Weight: 4,2 kg; Force: 98 kN



GO 300 Hydraulic head

Hydraulic head for:

- ring terminals without insulation (OA dies) of 10 ÷ 120 mm²
- ring terminals with insulation (OE dies) of 10 ÷ 120 mm²
- cable end-sleeves with and without insulation (OT dies) of 25 ÷ 185 mm²
- Cu tubular terminals and connectors on cable conductors (OS dies) of 6 ÷ 300 mm²
- Al tubular terminals and connectors on cable conductors (OS dies) of 16 ÷ 300 mm²
- round forming Al sector conductors (OF dies) of 16 ÷ 240 mm²
- flat forming Al sector conductors (OR dies) of 25 ÷ 120 mm²
- hole punching in Al sector conductors previously flat formed (OK dies)
- hole punching in banding steel (OK dies)

Designed for electrical works of average intensity.

Works with H 800 hydraulic pump and AH 100, AH 500, AH 550 electric hydraulic units.

Crimping dies – see chart below.

Length: 250 mm; Weight (without dies): 2,5 kg; Force: 98 kN

Head mounting handle on request.



Crimping dies for PR 240, HR 300 presses and GO 300 head

Type of die	Terminals and Connectors	Description	Form of crimping
OA		For Cu ring terminals without insulation of 10 ÷ 120 mm ² .	
OE		For Cu terminals and connectors with insulation of 10 ÷ 120 mm ² .	
OT		For Cu cable end-sleeves with and without insulation of 25 ÷ 185 mm ² .	
OF		Round forming Al sector conductors of 16 ÷ 120 mm ² .	

Type of die	Description
OR	For end forming Al sector conductors without use of terminals. Flat forms conductors of 25 ÷ 120 mm ² . After flat forming, a hole should be punched using OK dies.
OK	For end forming Al sector conductors without use of terminals. Punches holes in previously flat formed, with OR dies, conductors, also punches holes in banding steel. <ul style="list-style-type: none"> • cross section of reformed Al conductors: 25 ÷ 120 mm² • max. dimensions of banding steel: 5x30 mm • standard dies: <ul style="list-style-type: none"> OK 8,5 – Ø 8,5 mm OK 10,5 – Ø 10,5 mm OK 12,5 – Ø 12,5 mm Dies of different diameters from 8,5 mm to Ø 12,5 mm on request.

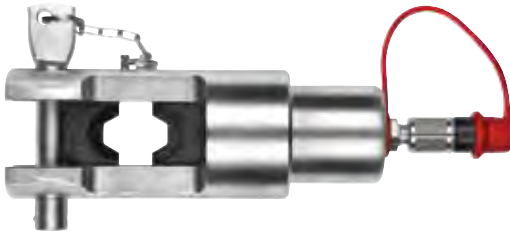
Type of die	Terminals and Connectors	Description	Form of crimping
OS		For Cu tubular terminals and connectors of 6 ÷ 300 mm ² . For Al tubular terminals and connectors of 16 ÷ 300 mm ² .	

Type of die	Discriminant	Terminals – cross section [mm ²]				
		DIN Cu tubular	Others Cu tubular	DIN Al tubular	ARC, ALC Thin-walled Al tubular	ARG, ALG, AFG Thick-walled Al tubular
OS	6	10	6			
	7		10			
	8	16	16			
	9				16	
	10	25	25		25	
	12	35	35	16;25	35	16
	14	50	50	35	50	25
	16	70	70	50	70	35
	18	95	95	70	95	50
	19		120			
	20	120			120	70
	22	150	150	95; 120	150	95
	23		185		185	
	25	185	240	150		120
	28	240		185	240	150
	30		300			185
	32	300		240		
34			300		240	

■ OS_K8 basic set for the terminals according to DIN - 13 sizes

■ OS_K-K7 expanded set - 18 sizes

GU 300 Hydraulic head



Hydraulic head for:

- Cu tubular terminals and connectors on cable conductors (USD dies) of 6 ÷ 300 mm²
- Al tubular terminals and connectors on cable conductors (USD dies) of 16 ÷ 300 mm²
- round forming Al sector conductors (UDF dies) of 16 ÷ 240 mm²
- flat forming Al sector conductors (UR dies) of 25 ÷ 120 mm²
- hole punching in Al sector conductors previously flat formed (UK dies)
- hole punching in banding steel (UK dies)

Designed for electrical works of high intensity.

Works with H 800 hydraulic pump and AH 100, AH 500, AH 550 electric hydraulic units.

Crimping dies – see chart below.

Length: 280 mm; Weight (without dies): 3,9 kg; Force: 112 kN

Crimping dies for GU 300 head

Type of die	Terminals and Connectors	Description	Form of crimping
UDF		For round forming Al sector conductors of 16 ÷ 240 mm ² .	
UR		For end forming Al sector conductors without use of terminals. Flat forms conductors of 25 ÷ 120 mm ² . After flat forming, a hole should be punched using UK dies.	
UK		For end forming Al sector conductors without use of terminals. Punches holes in previously flat formed, with UR dies, conductors, also punches holes in banding steel. • cross section of reformed Al conductors: 25 ÷ 120 mm ² • max. dimensions of banding steel: 5x30 mm • standard dies: UK 8,5 – Ø 8,5 mm UK 10,5 – Ø 10,5 mm UK 12,5 – Ø 12,5 mm Dies of different diameters up to Ø 12,5 mm on request.	

Type of die	Terminals and Connectors	Description	Form of crimping
USD		For Cu tubular terminals and connectors of 6 ÷ 300 mm ² . For Al tubular terminals and connectors of 16 ÷ 300 mm ² .	

Type of die	Discriminant	Terminals – cross section [mm ²]				
		DIN Cu tubular	Others Cu tubular	DIN Al tubular	ARC, ALC Thin-walled Al tubular	ARG, ALG, AFG Thick-walled Al tubular
USD	6	10	6			
	7		10			
	8	16	16			
	9				16	
	10	25	25		25	
	12	35	35	16;25	35	16
	14	50	50	35	50	25
	16	70	70	50	70	35
	18	95	95	70	95	50
	19		120			
	20	120			120	70
	22	150	150	95; 120	150	95
	23		185		185	
	25	185	240	150		120
	28	240		185	240	150
	30		300			185
	32	300		240		
34			300		240	

■ USD_K7 basic set for the terminals according to DIN - 13 sizes

□ USD_K-K17 expanded set - 18 sizes



GU 625 Hydraulic head

Hydraulic head for:

- Cu and Al tubular terminals and connectors on cable conductors (UX dies) of 300 ÷ 625 mm²

Designed for electrical works of high intensity.




Works with H 800 hydraulic pump and AH 100, AH 500, AH 550 electric hydraulic units.

Maximum outer diameter of terminal (connector): ø 52 mm.

Crimping dies – see chart below.

Length: 340 mm; Weight (without dies): 9,5 kg; Force: 190 kN



Type of die	Terminals and Connectors	Description	Form of crimping
		For tubular terminals and connectors of outer diameters up to 52 mm. Due to different wall thickness of terminals for given cable cross section (e.g. made according to DIN or PN norm) dies are marked with a discriminant. Its value reflects outer diameter of terminal in mm.	

Dies discriminant - outer terminal diameter [mm]	Examples of terminals
32	KCR 300
34	KCS 400
38	KCR 400
42	KCR 500
44	KCR 625
52	AR 625

PP 8 Pneumatic press

Pneumatic press for:

- ring, spade, pin tubular terminals, receptacles and tabs without insulation
- ring, spade, pin tubular terminals, receptacles and tabs with insulation
- cable end-sleeves without insulation
- cable end-sleeves with insulation

Wire cross section of 0,5 ÷ 25 mm², cable end sleeves up to 50 mm²

- works with PPH 11, PPH 12 and PPH 13 heads
- cutting Cu multistrand wires with PVC insulation up to 25 mm² (PPH 13 head)
- optionally equipped with SP1 crimps control system
- speed of 50 cycles/min (efficiency due to operator)

Crimping dies on page 22.

Power: compressed air 0,6 ÷ 0,8 MPa



PP 19 Pneumatic press



Pneumatic press for:

- ring, spade, pin tubular terminals, receptacles and tabs without insulation
- ring, spade, pin tubular terminals, receptacles and tabs with insulation
- cable end-sleeves without insulation
- cable end-sleeves with insulation

Wire cross section of 0,5 ÷ 25 mm², (cable end sleeves up to 50 mm²).

- works with PPH 11, PPH 12 and PPH13 heads
- cutting Cu multistrand wires with PVC insulation up to 25 mm² (PPH 13 head)
- optionally equipped with SP1 crimps control system
- speed of 25 cycles/min (efficiency due to operator)

Crimping dies – see chart below.

Power: compressed air 0,6 ÷ 0,8 MPa

SP 1 Steering system














Steering system for PP 8 and PP 19 pneumatic presses for control of crimping cycle accuracy.










Electrical power: 230V AC


Power: compressed air 0,5 ÷ 1,0 MPa

Steering: 24V DC (electric pedal)

Heads for pneumatic presses

Head type	Type of die	Terminals and connectors	Cross section [mm ²]	Form of crimping
 PPH 11 equipped with dies according to customer's order (not recommended for PP 19)	E 11-6-MZ		1 ÷ 6	
	A 11-6-MZ		1 ÷ 6	
	S 11-6-PP-8		0,75 ÷ 6	
	T 22-6-R11-MZ		0,5 ÷ 6	
	T 11-16 MZ		6, 10, 16	
	T 25-35-MZ		25 and 35	
	T 50-MZ		50	
S 44-2-MZ			0,5 ÷ 2,5	

Head type	Type of die	Terminals and connectors	Cross section [mm ²]	Form of crimping
 PPH 12 equipped with dies according to customer's order	SA		10 ÷ 25	
	SE		10 ÷ 25	
	ST		25 ÷ 50	
	SD		10 ÷ 25	

Head type	Description
 PPH 13	PPH 13 Cutting range up to 25 mm ² of Cu multistrand wires.

Cutting tools

Cable shears	26
Hydraulic heads	30
Safety cable cutting set	30



RC 5 Cable shears



NEW

⚠️ 1000 V



Shears for cutting:

- Al and Cu single- and multistrand cables, outer diameter up to 5 mm
- steel cable, diameter 2 mm

Features:

- shaped blades for easy cutting
- lever optimizes the force required to cut

NOTE: ability to work under voltage up to 1000V

Length: 200 mm; Weight: 290 g



RC 13 Cable shears



NEW

⚠️ 1000 V



Shears for cutting:

- Al and Cu single- and multistrand cables
- outer diameter up to 13 mm
- cross section up to 60 mm²

Features:

- blades made of special hardened steel that ensures long tool life
- easy cutting with minimal force

NOTE: ability to work under voltage up to 1000V

Length: 240 mm; Weight: 500 g





RC 15 Cable shears

Shears for cutting and stripping:

- Al and Cu single- and multistrand cables
- outer diameter up to 15 mm
- cross section up to 50 mm²

Special features:

- blades made of quality forged tool steel
- cutting without cable crushing or deformation

NOTE: do not use for steel reinforced, iron sheath reinforced or hard drawn copper wires.

Length: 170 mm; Weight: 210 g



RC 15 S Cable shears with spring

Shears for cutting and stripping:

- Al and Cu single- and multistrand cables
- outer diameter up to 15 mm
- cross section up to 50 mm²

Special features:

- blades made of quality forged tool steel
- special blades profile enables one-handed cutting
- cutting without cable crushing or deformation

NOTE: do not use for steel reinforced, iron sheath reinforced or hard drawn copper wires

Length: 170 mm; Weight: 210 g



RC 20 Cable shears

Shears for cutting and stripping:

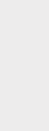
- Al and Cu single- and multistrand cables
- outer diameter up to 20 mm
- cross section up to 70 mm²

Special features:

- blades made of quality forged tool steel
- twin blades for easier cutting of thick cables
- initial cut in outer cutting area, final cut in inner cutting area

NOTE: do not use for steel reinforced, iron sheath reinforced or hard drawn copper wires

Length: 200 mm; Weight: 340 g



RC 27 Cable shears



Shears for cutting and stripping:

- Al and Cu single- and multistrand cables
- outer diameter up to 27 mm
- cross section up to 150 mm²

Special features:

- low handforce required due to optimised blades geometry
- handles made of special aluminum tube

NOTE: do not use for steel reinforced or iron sheath reinforced wires.

Length: 500 mm; Weight: 1,1 kg



RCO 32 Cable shears



NEW



Shears for cutting:

- Al and Cu single- and multistrand cables
- outer diameter up to 32 mm
- cross section up to 300 mm²

Features:

- ratcheting mechanism enables cutting wires with different diameter, minimizes force needed to cut the cable

NOTE: do not use for steel cable

Length: 260 mm; Weight: 600 g



RC 38 Cable shears



Shears for cutting:

- Al and Cu single- and multistrand cables
- outer diameter of 28 ÷ 38 mm
- cross section up to 280 mm²

Features:

- adjustable angle of the arm enables optimal width handle adjustment, especially perfect to work in tight spaces

- optimised blades geometry ensures high quality cutting

- telescopic aluminum handles of length 550 ÷ 700 mm

- ratcheting mechanism

NOTE: do not use for steel wires

Weight: 1,98 kg





RC 54 Cable shears

Shears for cutting:

- Al and Cu single- and multistrand cables
- outer diameters up to 54 mm
- cross section of 480 mm²

Features:

- ratcheting mechanism enables cutting wires with different diameter, minimizes force needed to cut the cable

NOTE: do not use for cutting steel cables

Length: 310 mm; Weight: 800 g

NEW



RC 54S Cable shears

Shears for cutting:

- Al reinforced steel cables up to 25 mm
- Al and Cu single- and multistrand cables, outer diameters up to 54 mm
- cross section of 477 mm²

Features:

- ratcheting mechanism enables cutting wires with different diameters, minimizes force needed to cut the cable
- replaceable blades made of special hardened tool steel with high strength

NOTE: can be used for cutting steel cables with cross section up to 9,5 mm

Length: 350 mm; Weight: 1,2 kg

NEW



RC 100T Cable shears

Shears for cutting:

- Al and Cu single- and multistrand cables
- outer diameter up to 100 mm
- cross section of 2x400 mm²

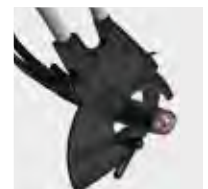
Features:

- telescopic aluminum handles of length 685 ÷ 875 mm
- ratcheting mechanism enables cutting wires with different diameters, minimizes force needed to cut the cable
- blades made of special hardened tool steel with high strength

NOTE: do not use for cutting steel cables

Weight: 800 g

NEW



GC 50 Hydraulic head



Hydraulic cutting head for:

- Al and Cu cables
 - outer diameter up to 50 mm
 - in case of steel reinforced wires (including AFL) maximum diameter is 30 mm
- Works with H 800 hydraulic pump and AH 100, AH 500, AH 550 electric hydraulic units.
Length: 355 mm; Weight: 3,4 kg; Force: 80 kN



Example of a cut.

GC 100 Hydraulic head



Hydraulic cutting head for:

- Al and Cu cables
- outer diameter up to 96 mm

NOTE: do not use for steel reinforced wires

Works with H 800 hydraulic pump and AH 100, AH 500, AH 550 electric hydraulic units.
Length: 455 mm; Weight: 7,0 kg; Force: 80 kN



Example of a cut.

GC 50-H800-E, GC 100-H800-E Safety cable cutting set



Safety hydraulic cable cutting set for Al and Cu cables, when the voltage is impossible to determine. Equipped with hydraulic head, pump with manometer and automatic retraction, earthing wire, hydraulic hose (10 m). Maximum nominal tension – 60 kV. Supply of earthing rod on request (galvanized steel, Length: 0,82 m; \varnothing 16 mm; Weight: 2,5 kg).

Technical data:

GC 50-H800-E

Maximum cable diameter - 50 mm, cables with or without iron sheath reinforcement. In case of steel reinforced wires, maximum diameter is 30 mm.

Pump weight: 8,4 kg; Head weight: 3,6 kg; Force: 80 kN

GC 100-H 800-E

Maximum cable diameter - 96 mm, cables with or without iron sheath reinforcement.

NOTE: do not use for steel reinforced wires.

Pump weight: 8,4 kg; Head weight: 7 kg; Force: 80 kN

The sets are attested, which is obligatory for them to be used by electricity distribution companies, power stations and factories as well as other companies producing, transmitting or using electricity.



Electricians tools

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SUN 160 Universal pliers



⚠️ 1000 V



Pliers for fitting works and cutting hard and very hard wire:

- medium hard wire diameter – 2,5 mm
- hard wire diameter – 1,8 mm
- Al and Cu cable diameter – 10,0 mm
- Al and Cu cable cross section – 16,0 mm²

Special features:

- blade hardness ca. 60 HRc
- material: chromium-vanadium steel
- long term use even for intensive work
- non-sparking, anti-slip, two-component insulated grips with elastomer insert

Length: 160 mm; Weight: 210 g

NOTE: ability to work under voltage up to 1000V

SUN 180 Universal pliers



⚠️ 1000 V



Pliers for fitting works and cutting hard and very hard wire:

- medium hard wire diameter – 2,8 mm
- hard wire diameter – 2,5 mm

Special features:

- blade hardness ca. 60 HRc
- material: chromium-vanadium steel
- long term use even for intensive work
- non-sparking, anti-slip, two-component insulated grips with elastomer insert

Length: 180 mm; Weight: 265 g

NOTE: ability to work under voltage up to 1000V

SI 10S Pliers



⚠️ 1000 V



Pliers for stripping and cutting live wires up to 1000V:

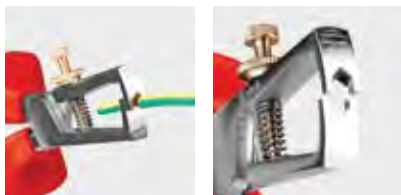
- strips wires up to 10 mm²

Special features:

- easy adjustment
- non-sparking, anti-slip, two-component insulated grips with elastomer insert
- drop forged

Length: 160 mm; Weight: 165 g

NOTE: ability to work under voltage up to 1000V



STS 160 Pliers



⚠️ 1000 V



Pliers for soft and hard wire cutting:

- soft wire diameter – 4 mm
- medium hard wire diameter – 2,8 mm
- hard wire diameter – 2 mm

Special features:

- blade hardness ca. 60 HRc
- material: chromium-vanadium steel
- long term use even for intensive work
- non-sparking, anti-slip, two-component insulated grips with elastomer insert

Length: 160 mm; Weight: 200 g

NOTE: ability to work under voltage up to 1000V



STSI 160 Pliers

Pliers for soft wire cutting and stripping:

- soft wire diameter – 2 mm
- stripping diameters – 1,5 mm and 2,5 mm

Special features:

- blade hardness ca. 60 HRC
- material: chromium-vanadium steel
- long term use even for intensive work
- non-sparking, anti-slip, two-component insulated grips with elastomer insert.

Length: 160 mm; Weight: 220 g

NOTE: ability to work under voltage up to 1000V

⚡ 1000 V  



STL 200 Pliers

Pliers for fitting works and cutting soft and medium hard wire:

- soft wire diameter – 2,8 mm
- medium hard wire diameter – 1,8 mm

Special features:

- blade hardness ca. 60 HRC
- semicircular long jaws
- across serrated contact surfaces
- material: chromium-vanadium steel
- long term use even for intensive work
- non-sparking, anti-slip, two-component insulated grips with elastomer insert

Length: 200 mm; Weight: 190 g

NOTE: ability to work under voltage up to 1000V

⚡ 1000 V  



STW 160 Angled pliers

Multifunctional long pliers for electric works on live wires up to 1000V.

- soft wire diameter – 2,5 mm
- medium hard wire diameter – 1,6 mm

Special features:

- semicircular jaws
- wire cutting
- material: chromium-vanadium steel
- long term use even for intensive work
- non-sparking, anti-slip, two-component insulated grips with elastomer insert

Length: 160 mm; Weight: 145 g

NOTE: ability to work under voltage up to 1000V

⚡ 1000 V  



SI 6 Insulation stripper



Stripper for stripping and cutting:

- single-, multi-, and thinstrand wires
- with plastic or rubber insulation
- wires cross section of $0,2 \div 6 \text{ mm}^2$
- stripping length adjusted between 5 and 12 mm
- automatic blade force adjustment
- Cu and Al cable cutter up to 2 mm^2
- stripping blades automatically adjust to cable thickness
- body made of fibreglass reinforced plastic

NOTE: do not use for steel wire
Length: 200 mm; Weight: 125 g

SI 10 Insulation stripper



Stripper for stripping and cutting:

- single-, multi-, and thinstrand wires
- with plastic or rubber insulation
- wires cross section of $0,08 \div 10 \text{ mm}^2$
- for flat cables of width up to 10 mm
- stripping length adjusted between 3 and 18 mm
- automatic blade force adjustment
- Cu and Al cable cutter up to 10 mm^2 (singlestrand wires – up to 6 mm^2)
- stripping blades automatically adjust to cable thickness
- exchangeable jaws and blades
- body made of fibreglass reinforced plastic

NOTE: do not use for steel wire
Length: 195 mm; Weight: 210 g



SI 10W Insulation stripper



NEW



Insulation stripper selfsetting for cutting and stripping:

- single-, multi-, and thinstrand wires
- with plastic or rubber insulation
- cross section of $0,02 \text{ mm} \div 16 \text{ mm}^2$
(standard with insert for cable of cross section $0,02 \div 10 \text{ mm}^2$, insert for cable of cross section $4 \div 16 \text{ mm}^2$ can be ordered separately)
- precision of inserts allows for stripping all kinds of insulation from PVC to PTFE
- ergonomic two-component handles

Length: 191 mm; Weight: 136 g





SI 11 Insulation stripper

Stripper for stripping telephone, audiovisual and fibre-optic cables

- outer diameter 11 mm
- has 9 positions of blade settings, which allows for precision stripping without damage
- easy to use, lightweight and durable

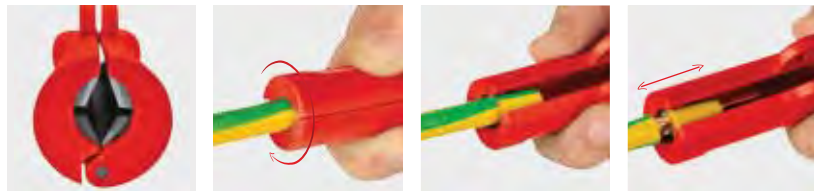
Length: 90,5 mm; Weight: 28 g



SIO 13 Insulation stripper

Stripper for stripping outer insulation:

- cross section of $8 \div 13 \text{ mm}^2$
- two-piece body made of fibreglass reinforced plastic
- opening spring and lock



SI 28 Multi Insulation stripper

Stripper for stripping all common round wires:

- cross section of $4 \div 28 \text{ mm}^2$
- removable, adjustable inner blades
- body made of impact-resistant plastic

Length: 145 mm; Weight: 50 g




SI 40 Insulation stripper



NEW



Stripper for stripping cables with different types of insulation:

- standard with a removable arms for stripping wires (diameter of 4,5 mm ÷ 25 mm and of 25 mm ÷ 40 mm)
 - equipped with a knife set in three positions
 - allows for circular, spiral and longitudinal stripping
- Length: 167 mm; Weight: 116 g

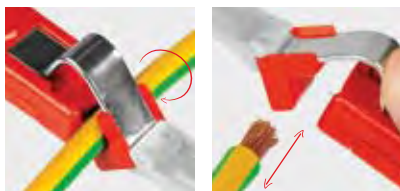


NI 28 Cable stripping knife



Knife for stripping all common round wires:

- cross section of 4 ÷ 28 mm²
 - body made of impact-resistant plastic
 - spare blade inside handle
- Length: 170 mm; Weight: 80 g



NM 30 Wire stripper knife



NEW

⚠ 1000 V



Fitter knife for stripping insulation with insulated handle up to 1000V

- ergonomic two-component handles
- protective cap on blade
- high quality blade made of stainless steel
- length of the blade: 30 mm
- length of the knife: 180 mm

NOTE: ability to work under voltage up to 1000V





NMZS 50 Wire stripper knife

Fitter knife with sickle style blade for stripping insulation with insulated handle up to 1000V

- ergonomic two-component handles
- unprotected sickle style blade made of stainless steel facilitates stripping wire
- additional blade on the front part of the knife allows cutting wires in two directions
- protective cap on blade
- length of the blade: 50 mm
- length of the knife: 200 mm

NOTE: ability to work under voltage up to 1000V

▲ 1000 V

NEW

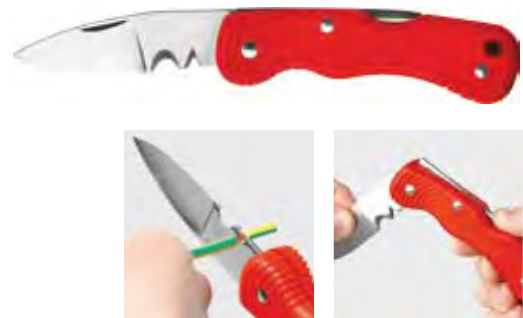


NSE Electrician pocket knife

Knife for stripping and cutting wires

- blade made of hardened stainless steel
- It includes two seats for cutting and stripping in the form of a triangle, semicircles
- lock-blade prevents accidental knife folding
- one-component handle fastened by rivets

Length: 195 mm; Weight: 50 g



NSD wooden knife

Folding knife for cutting and stripping wires.

- three-component knife (main blade, stripping blade, drilling pin)
- blades made of stainless steel
- wooden handle

Length: 172 mm; Weight: 92 g



WIP Insulated slotted screwdriver

Screwdriver for slotted screws. Shank: black, insulated. Blade: DIN 5264-A, blackened.

Handle: two-component. Standard: DIN EN 60900

NOTE: ability to work under voltage up to 1000V

▲ 1000 V



Symbol	Blade tip		Shank length [mm]	Handle length [mm]
	Thickness [mm]	Width [mm]		
WIP 2,5-80	● 0,4	2,5	80	84
WIP 3,5-100	● 0,6	3,5	100	84
WIP 4,0-100	● 0,8	4,0	100	84
WIP 5,5-125	● 1,0	5,5	125	98
WIP 6,5-150	● 1,2	6,5	150	98
WIP 8,0-175	● 1,2	8,0	175	108



WIK Insulated cross tip screwdriver



⚡ 1000 V
 ⊕ PH Phillips ⊕ PZ Pozidriv



Screwdriver for Philips/Pozidriv cross head screws. Shank: black, insulated. Blade: DIN 5264-PH/PZ, ISO 8764-PH/PZ, blackened. Handle: two-component. Standard: DIN EN 60900
NOTE: ability to work under voltage up to 1000V

Symbol	Blade tip [mm]	Shank length [mm]	Handle length [mm]
WIK PH1-80 ⊕	PH1	80	84
WIK PH2-100 ⊕	PH2	100	98
WIK PZ1-80 ⊕	PZ1	80	84
WIK PZ2-100 ⊕	PZ2	100	98

WIPK Insulated slotted-cross tip screwdriver



NEW ⚡ 1000 V



Insulated slotted-cross tip screwdriver for slotted-cross head screws, used for example in equipment. Shank: black, insulated, handle: two-component.
NOTE: ability to work under voltage up to 1000V

Symbol	Blade tip [mm]	Shank length [mm]	Handle length [mm]
WIPK 80 ⊕	PZ / FL	80	110
WIPK 100 ⊕	PZ / FL	100	114

Screwdrivers sets



⚡ 1000 V



WIPPH_K

The set contains of 6 screwdrivers:
 4 WIP slotted screwdrivers and 2 PH Phillips cross tip screwdrivers
 WIP 2,5-80 Insulated slotted screwdriver
 WIP 3,5-100 Insulated slotted screwdriver
 WIP 4,0-100 Insulated slotted screwdriver
 WIP 5.5-125 Insulated slotted screwdriver
 WIK PH1-80 Cross tip insulated screwdriver PH
 WIK PH2-100 Cross tip insulated screwdriver PH

WIPPZ_K

This set contains 6 screwdrivers: 4 WIP slotted screwdrivers and 2 PZ Pozidriv cross tip screwdrivers
 WIP 2,5-80 Insulated slotted screwdriver
 WIP 3,5-100 Insulated slotted screwdriver
 WIP 4,0-100 Insulated slotted screwdriver
 WIP 5.5-125 Insulated slotted screwdriver
 WIK PZ1-80 Cross tip insulated screwdriver PZ
 WIK PZ2-100 Cross tip insulated screwdriver PZ

LT 75, LT 100W Transformer soldering iron



NEW



Transformer soldering iron to connect metal parts with durable tip.
 • doesn't cause hand fatigue due to the appropriate location of the center of gravity
 • rated voltage: 230V ~ 50Hz
 • power: 75W, 100W
 • tip temperature: 400°
 • copper wire tip Ø 1,5 mm
 • tip lighting: lamp 12V / 2W
 • Weight: 700 g

type of iron soldering	rated voltage	power	tip temperature	coper wire tip Ø	light	weight [kg]
LT 75	230V ~ 50Hz	75 W	400°C	1,5 mm	12V / 2W	0,7
LT 100	230V ~ 50Hz	100W	400°C	1,8 mm	12V / 2W	0,72



UT 201 Digital Clamp Meter

Allows to measure AC / DC voltage, AC and resistance.

Ergonomic soft-handles with slip-off protection ensure reliable adhesion to hand.

- AC voltage: 2A/20A/200A/400A
- AC current: 2V/20V/200V/600V
- DC current: 200mV/2V/20V/200V/600V
- resistance: 0-20M Ω
- input impedance for DCV around 10M Ω
- automatic change of measuring ranges
- Jaw Capacity max. 28 mm
- diode test
- data hold
- continuity buzzer
- low battery display
- sleep mode
- full icon display
- power: battery 2 x 1,5V AAA
- LCD size: 35,6x18 mm

Dimensions: 210x75,6x30 mm; Weight: 220 g



UT 202 Digital Clamp Meter

Allows to measure AC / DC voltage, AC resistance and temperature.

Ergonomic soft-handles with slip-off protection ensure reliable adhesion to hand.

- AC voltage: 2A/20A/200A/400A
- AC current: 2V/20V/200V/600V
- DC current: 200mV/2V/20V/200V/600V
- resistance: 200 Ω /2k Ω /20k Ω /200k Ω /2M Ω /20M Ω
- input impedance for DCV around 10M Ω
- automatic change of measuring ranges
- Jaw Capacity max. 28 mm
- diode test
- data hold
- continuity buzzer
- low battery display
- temperature measurement in Celcius degrees (from -40°C to +1000°C)
- sleep mode
- full icon display
- power: battery 2 x 1,5V AAA
- LCD size: 35,6x18 mm

Dimensions: 210x75,6x30 mm; Weight: 220 g



UT 202A Digital Clamp Meter

Allows to measure AC / DC voltage, AC resistance.

Ergonomic soft-handles with slip-off protection ensure reliable adhesion to hand.

- AC voltage: 2A/20A/200A/400A
- AC current: 2V/20V/200V/600V
- DC current: 200mV/2V/20V/200V/600V
- resistance: 200 Ω /2k Ω /20k Ω /200k Ω /2M Ω /20M Ω
- input impedance for DCV around 10M Ω
- manual change of measuring ranges
- Jaw Capacity max. 28 mm
- diode test
- data hold
- continuity buzzer
- low battery display
- sleep mode
- power: battery 9V
- LCD size: 60x54 mm

Dimensions: 210x75,6x30 mm; Weight: 220 g



UT 203 Digital Clamp Meter



NEW



Allows to measure AC / DC voltage, AC resistance and temperature.

Ergonomic soft-handles with slip-off protection ensure reliable adhesion to hand.

- AC voltage: 40A/400A
- DC voltage: 40A/400A
- AC current: 4V/40V/400V/600V
- DC current: 400mV/4V/40V/400V/600V
- resistance: 400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ
- input impedance for DCV around 10MΩ
- frequency 10Hz~1MHz
- duty cycle - 0.1%~99.9%
- auto rangelines
- Jaw Capacity max. 28mm
- diode test
- data hold
- continuity buzzer
- polarity: displays automatically
- overload: displays OL or -OL
- measurements speed: 3 times/s
- low battery display
- temperature measurement in Celcius degrees (from -40°C to +1000°C)
- sleep mode
- power: battery 9V
- LCD size: 35,6x18 mm

Dimensions: 210x75,6x30 mm; Weight: 220 g

UT 204 Digital Clamp Meter



NEW



Allows to measure AC / DC current, AC/DC voltage resistance, frequency and duty cycle.

Ergonomic soft-handles with slip-off protection ensure reliable adhesion to hand.

- DC current: 400mV/4V/40V/400V/600V
- AC current: 4V/40V/400V/600V
- DC voltage: 40A/400A
- AC voltage: 40A/400A
- resistance: 400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ
- input impedance for DCV around 10MΩ
- frequency 10Hz~1MHz
- duty cycle - 0.1%~99.9%
- auto range
- Jaw Capacity max. 28mm
- diode test
- data hold
- continuity buzzer
- low battery display
- sleep mode
- full icon display
- true RMS
- power: battery 9V
- LCD size: 35,6x18 mm
- resistance to falls: up to 1 m

Dimensions: 210x75,6x30 mm; Weight: 220 g

UT 10A Digital Multimeter



NEW



Pocket-size digital multimeter.

- DC voltage: 400mV/4V/40V/300V (0.8%+1)
- AC voltage: 4V/40V/300V (1.2%+3)
- resistance: 4kΩ/40kΩ/400kΩ/4MΩ/40MΩ (1%+2)
- frequency: 10Hz/100kHz (0.5%+3)
- capacity: 200 mikro F
- duty cycle 0.1%~99.9%
- auto ranging
- diode test
- data hold
- continuity buzzer
- low battery display
- sleep mode
- power: battery 3V (CR2032)
- LCD size: 43x22 mm

Dimensions: 58x108x12 mm; Weight: 62 g



UT 33A Digital Multimeter

Allows to measure DC/AC current, electric current and resistance

- DC current: 400mV/4V/40V/400V/600V
- AC current: 4V/40V/400V/600V
- DC voltage: 400uA/4mA/40mA/400mA/4A/10A
- AC voltage: 400uA/4mA/40mA/400mA/4A/10A
- resistance: 400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ
- input Impedance for DC 10M
- auto range
- diode test
- continuity buzzer
- transistors measure
- power: battery 2x1,5V AAA
- LCD size 48x16 mm

Dimensions: 130x73,5x35 mm; Weight: 156 g



UT 33B Digital Multimeter

Allows to measure DC/AC current, electric current and resistance. Equipped with backlight, which facilitates reading values in dark places.

- DC voltage: 200m/2000m/20V/200V/500V $\pm(0,5\%+2)$
- AC voltage: 200V/500V, $\pm(1,2\%+10)$
- DC current: 200uA/200mA/10A, $\pm(1\%+2)$
- resistance: 200Ω/2kΩ/20kΩ/200kΩ/20MΩ, $\pm(0,8\%+2)$
- input impedance 10MΩ
- manual range
- diode test
- data hold
- continuity buzzer
- low battery display
- sleep mode
- LCD backlight
- power: battery 9V (6F22)
- LCD size: 48x16 mm

Dimensions: 130x73,5x35 mm; Weight: 156 g



UT 33C Digital Multimeter

It is one of the lightest digital meters, equipped in holster. Ergonomic shape, with rubber material on the edges ensures steady stick to hand. Palm-size allows carry it and use in case of emergency.

- DC voltage: 200m/2000m/20V/200V/500V (0,5%+2)
- AC voltage: 200V/500V, (1,2%+10)
- DC current: 2000uA/20m/200mA/10A, (1%+2)
- resistance: 200Ω/2kΩ/20kΩ/200kΩ/20MΩ, (0,8%+2)
- input impedance: 10MΩ,
- manual range
- diode test
- data hold
- continuity buzzer test
- low battery display
- temperature measurement in Celcius degrees (from -40°C to +1000°C)
- LCD size 48x16 mm
- power: battery 9V (6F22)

Dimensions: 130x73,5x35 mm; Weight: 156 g



UT 33D Digital Multimeter



NEW



- DC Voltage: 0.2-500V
 - AC Voltage: 200-500V
 - DC current: 200 μ A-10A
 - resistance: 200 Ω -200M Ω
 - input impedance: 10M Ω ,
 - square wave generator
 - manual range
 - diode test
 - data hold
 - continuity buzzer test
 - low battery display
 - LCD backlight
 - power: battery 9V (6F22)
 - LCD size: 48x16 mm
- Dimensions: 130x73,5x35 mm; Weight: 156 g

UT 50 Digital Multimeter



NEW



- DC Voltage: 200mV/2V/20V/200V/1000V
 - AC Voltage: 2V/20V/200V/750V
 - DC current: 2mA/200mA/20A
 - AC current: 20mA/200mA/20A
 - resistance: 200 Ω /2k Ω /200k Ω /2M Ω /20M Ω
 - inductance 2mH/20mH/200mH/20H
 - capacity: 100 mikro F
 - manual range
 - diode test
 - data hold
 - continuity buzzer
 - low battery display
 - temperature measurement in Celcius degrees (from -40°C to +1000°C)
 - sleep mode
 - full icon display
 - automatic off
 - LCD backlight
 - LCD size: 59x25 mm
 - power: battery 9V (6F22)
- Dimension: 165x80x38,3 mm; Weight: 257 g

UT 55 Digital Multimeter



NEW



- DC voltage: 200mV/2V/20V/200V/1000V
 - AC voltage: 2V/20V/200V/750V
 - DC current: 2mA/20mA/200mA/20A
 - AC current: 20mA/200mA/20A
 - resistance: 200 Ω /2k Ω /20k Ω /200k Ω /2M Ω /20M Ω /200M Ω
 - frequency: 20kHz
 - capacity: 20 mikro F
 - manual range
 - diode test
 - continuity buzzer
 - temperature measurement in Celcius degrees (from -20°C to +1000°C)
 - sleep mode
 - transistor measurement
 - power: battery 9V (6F22)
- LCD size: 33x65 mm
Dimensions: 190x88x34 mm; Weight: 540 g



UT 58D Universal Inductive Meter

It has ergonomic shape and easy to read LCD panel. Displays icons with tip on which clamp connect measurement pens. Besides all basic functions, additionally it has unique function of inductance measurement in 4 subranges. Additional advantage is capacity measurement.

- DC voltage: 200mV/20V/200V/1000V
- AC voltage: 2V/200V/1000V
- DC current: 2mA/200mA/20A
- AC current: 2mA/200mA/20A
- resistance: 200Ω/2kΩ/200kΩ/2MΩ/20MΩ
- capacity: 20nF/200nF/2uF/100uF
- inductance measurement: 2mH/20mH/200mH/20H
- manual range
- diode test
- data hold
- continuity buzzer
- low battery display
- sleep mode
- full icon display
- transistors measurement
- power: battery 9V (6F22)
- LCD size: 60x54 mm

Dimensions: 179x88x39 mm; Weight: 351 g



UT 132C Digital Multimeter

- DC voltage: 200mV/20V/200V/1000V
- AC voltage: 2V/200V/1000V
- DC current: 2000..
- resistance: 200Ω/2kΩ/200kΩ/2MΩ/20MΩ
- manual range
- diode test
- data hold
- continuity buzzer
- temperature measurement in Celcius degrees (from -40°C to +1000°C)
- transistors measurement
- power: battery 9V (6F22)

Dimensions: 72x137x35 mm; Weight: 200 g



UT 105 Automotive meter

- DC voltage: 200mV, 2V, 20V, 200V, 1000V
- AC voltage: 2V, 20V, 200V, 750V
- DC current: 200mA, 10A
- resistance: 200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ
- measurement angle of closure interrupter contacts
- rotation speed measurement: RPM x 10
- polarity indicator „-“ when negative
- overload indicator „1” or „-1”
- manual range
- diode test
- data hold
- continuity buzzer
- low battery display
- automatic reset
- full icon display
- power: battery: 9V (6F22)
- LCD size: 60x54 MM

Dimensions: 179x88x39 mm; Weight: 351 g

Diagnosis of automotive troubles:

- fuse testing
- switch testing
- solenoid testing
- load-free battery testing
- battery power consumption testing
- voltage drop testing
- charging system voltage testing
- ignition coil testing
- high-voltage leads testing
- Hall sensor testing
- magnetic resistance sensor testing
- measurement of engine speed
- supply system testing



UT 601 Inductance Capacitance Meter



NEW



- resistance 20 Ω /200 Ω /2k Ω /20k Ω /200k Ω /2M Ω /20M Ω /200M Ω /2000M Ω
 - capacity 200pF/2nF/20nF/200nF/2F/20F/200F/2mF/20mF
 - manual range
 - diode test
 - continuity buzzer
 - low battery display
 - transistors measurement
 - power: battery 9V
 - LCD size: 61x32 mm
- Dimensions: 172x83x38 mm; Weight: 310 g

UT 15C Voltage tester



NEW



- DC voltage 6-690V
 - AC voltage 6-690V
 - resistance: 40MW
 - phase rotation test from 100 to 690V for frequency 45-65 Hz
 - automatic range
 - acoustic signalization of AC/DC measure
 - LED light indicator
 - LED light resolution 12. 24. 50. 120. 230. 400. 690 V
 - polarity detection in whole measure range
 - low battery display
 - temperature measurement in degrees Celcius C
 - power: 2x1,5 V AAA
 - LCD size: 32x12 mm
- Dimensions: 275x51x30 mm; Weight: 210 g

UT 12A AC Voltage Detectors - Adjustable Sensitivity



NEW



- Allows touchless AC detection in range from 90 to 1000V
- indicates live conductors
 - continuity buzzer
 - optic signalization of voltage presence by flashing LED (quite cycle)
 - voltage range: 90 ~ 1000VAC
 - frequency: 50/60Hz
 - automatic off
 - low battery display
 - power: battery 2x1,5V AAA
- Dimensions: 150 mm; Weight: 49 g



Type/ Characteristics of the meters	UT33A	UT33B	UT33C	UT33D	UT50D	UT55	UT58D	UT10A	UT132C
DC voltage (V)	500V	500V	500V	500V	1000V	1000V	1000V	300V	600V
AC voltage (V)	500V	500V	500V	500V	750V	750V	1000V	300V	600V
DC current (A)	10A	10A	10A	10A	20A	20A	20A		10A
AC current (A)	10A				20A	20A	20A		
resistance (Ω)	40MΩ	20MΩ	20MΩ	200 MΩ	20MΩ	200MΩ	20MΩ	40MΩ	20MΩ
temperature (°C)			-40°C ~ 1000°C		-40°C ~ 1000°C	-20°C ~ 1000°C			-40°C ~ 1000°C
capacitance (F)					100μF	20μF	100μF	200μF	
inductance (H)					20H		20H		
frequency (Hz)						20kHz		100kHz	
Functions									
display count	3999	1999	1999	1999	1999	1999	1999	3999	1999
auto/manual range	auto	manual	manual	manual	manual	manual	manual	auto	manual
acoustic continuity test	●	●	●	●	●	●	●	●	●
diode test	●	●	●	●	●	●	●	●	●
low battery display	●	●	●	●	●		●	●	●
data hold		●	●	●	●		●	●	●
LCD backlight		●	●	●	●				
transistors testing	●					●	●		●
battery testing		●							
auto power off					●				
square wave generator				●					
full icon display					●		●		
sleep mode		●			●	●	●	●	
General									
supply	battery 2 x 1,5V AAA	battery 9V (6F22)	battery 9V (6F22)	battery 9V (6F22)	battery 9V (6F22)	battery 9V (6F22)	battery 9V (6F22)	battery 3V (CR2032)	battery 9V (6F22)
LCD size	48 x 16 mm	48 x 16 mm	48 x 16 mm	48 x 16 mm	59 x 25 mm	33 x 65 mm	60 x 54 mm	43 x 22 mm	
weight	156g	156g	156g	156g	275g	540g	351g	62g	200g
product size	130 x 73.5 x 35 mm	130 x 73.5 x 35 mm	130 x 73.5 x 35 mm	130 x 73.5 x 35 mm	165 x 80 x 38.3 mm	190 x 88 x 34 mm	179 x 88 x 39 mm	58 x 108 x 12 mm	72 x 137 x 35 mm

Type/ Characteristics of the meters	UT601	UT201	UT202	UT202A	UT203	UT204	UT12A	UT15C	UT105
DC voltage (V)		600V	600V	600V	600V	600V		690V	1000V
AC voltage (V)		600V	600V	600V	600V	600V	90V - 1000VAC	690V	750V
DC current (A)					400A	400A			10A
AC current (A)		400A	400A	600A	400A	400A			
resistance (Ω)	2000MΩ	20MΩ	20MΩ	20MΩ	40MΩ	40MΩ		40MW	20MΩ
temperature (°C)			-40°C ~ 1000°C		-40°C ~ 1000°C	-40°C ~ 1000°C		-40°C ~ 1000°C	
capacitance (F)	20mF								
frequency (Hz)					10Hz - 1MHz	10Hz - 1MHz			
Function									
display count	1999	1999	1999	1999	1999	3999	1999	1999	1999
auto/manual range	manual	auto	auto	manual	auto	auto	manual	auto	manual
acoustic continuity test	●	●	●	●	●	●	●	●	●
low battery display	●	●	●	●	●	●	●	●	●
diode test	●	●	●	●	●	●			●
data hold		●	●	●	●	●			●
sleep mode		●	●	●	●	●			
full icon display		●	●			●			●
transistors testing	●								
auto power off							●		
true RMS						●			
General									
supply	battery 9V	battery 2 x 1,5V AAA	battery 2 x 1,5V AAA	battery 9V	battery 9V	battery 9V	battery 2 x 1,5V AAA	battery 2 x 1,5V AAA	battery 9V
LCD size	61 x 32 mm	35.6 x 18 mm	35.6 x 18 mm	60 x 54 mm	60 x 54 mm	35.6 x 18 mm		32 x 12 mm	60 x 54 mm
weight	310g	220g	220g	220g	200g	200g	49g	210g	351g
product size	172 x 83 x 38 mm	210 x 75.6 x 30 mm	210 x 75.6 x 30 mm	210 x 75.6 x 30 mm	210 x 75.6 x 30 mm	210 x 75.6 x 30 mm	150 x 109 mm	275 x 51 x 30 mm	179 x 88 x 39 mm



EF 767 Unipolar multi-function electrical tester



NEW



EF767 Unipolar multi-function electrical tester is intended for performing basic test of 220V/380V electric installations, car installations and checking operations of electrical devices.

- detection of phase/zero of alternating voltage max 500V
- testing the continuity of conduction approx 1M
- detection of direct voltage max 60V

Application:

- 220V/380V installation:
- detection of direct voltage max 60V
- breaks/ shortings detection, testing of fuses and light bulbs
- verification of earthing
- detection of wires in a group of conductors
- allows to repair christmas lights without removing light bulbs

DC installation:

- detection of DC voltage, breaks and shortings
- pole identification +/-
- testing of plug supply
- telephone tests

Electronics:

- detection of 0/1 in electronic systems
- basic test of electronic elements
- diode, transistors, resistors, condensers (apart from electrolyte)

Cars:

- detection of +12V/ground
- testing of fuses, light bulbs
- battery ignition setting
- detection of high voltage



EF 777 Unipolar multi-function electrical tester



NEW



Intended for touchless performing basic test of 220V/380V electric installations, car installations and checking operations of electrical devices.

- detection of live conductors (touchless) from 0,3 cm to 50 cm
- detection of wires inside walls at a depth of up to 10 cm
- detection of phase/ alternate zero max 500V
- testing of conduction continuity
- detection of direct voltage max 60V
- adjustment of detection sensitivity





TPWK Perlon fish tape

Perlon fish tape for pulling following cables:

- supply
- antenna
- speaker

Special attributes:

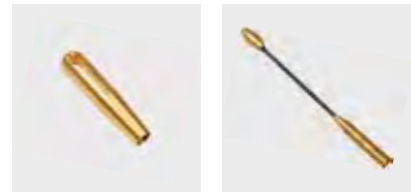
- high strength, resistance, flexibility
- placing the fish tape in a pipe of a diameter of 20-25 mm
- completed with removable carrying and towing stalk

Symbol	Colour	Ø	Length	Material
TPWK 4-10-B	white	4mm	10m	perlon,brass
TPWK 4-10-C	black	4mm	10m	perlon,brass
TPWK 4-15-B	white	4mm	15m	perlon,brass
TPWK 4-15-C	black	4mm	15m	perlon,brass
TPWK 4-20-B	white	4mm	20m	perlon,brass
TPWK 4-20-C	black	4mm	20m	perlon,brass
TPWK 4-30-B	white	4mm </td <td>30m</td> <td>perlon,brass</td>	30m	perlon,brass
TPWK 4-30-C	black	4mm	30m	perlon,brass
TPWK 4-5-B	white	4mm	5m	perlon,brass
TPWK 4-5-C	black	4mm	5m	perlon,brass

Pulling tape	Colour	Ø	Material
SC TPWK-B	white	4mm	brass
SC TPWK-C	black	4mm	brass

Leading tape	Colour	Ø	Material
SP TPWK-B	white	4mm	brass
SP TPWK-C	black	4mm	brass

NEW



TSWK Steel fish tape

Steel fish tape for pulling following cables:

- supply
- antenna
- speaker

Special attributes:

- high strength, resistance, flexibility
- placing the fish tape in a pipe of a diameter of 20-25 mm
- completed with removable carrying and towing stalk

Symbol	Ø	Length	Material
TSWK 3-10	3mm	10m	steel,brass
TSWK 3-15	3mm	15m	steel,brass
TSWK 3-20	3mm	20m	steel,brass
TSWK 3-30	3mm	30m	steel,brass
TSWK 3-5	3mm	5m	steel,brass

NEW



TSPPWK Steel and polypropylene fish tape



NEW



Steel and polypropylene fish tape for pulling following cables:

- supply
- antenna
- speaker

Special attributes:

- high strength, resistance, flexibility
- placing the fish tape in a pipe of a diameter of 20-25 mm
- completed with removable carrying and towing stalk

Symbol	Colour	Ø	Length	Material
TSPPWK 6-20	yellow	6mm	20mm	steel, polypropylene
TSPPWK 6-40	yellow	6mm	40mm	steel, polypropylene
TSPPWK 6-60	yellow	6mm	60mm	steel, polypropylene

Pulling tape	Colour	Ø	Material
SC TSPPWK	yellow	6	brass

Leading tape	Colour	Ø	Material
SP TSPPWK	yellow	6	brass

Roller tape	Colour	Ø	Material
SP TSPPWK	yellow	6	brass



Wiring accessories and electricians equipment

Cable ties	50
Heat shrinkable tubing	51
Tapes	57
Cable glands	58
Cable trays	59
Tool belts	60
Electrical equipment	61



OPK Cable ties

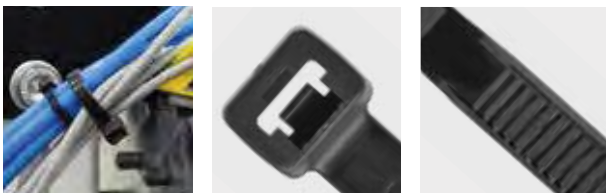


Cable ties for:

- binding, fastening and organizing electronic cables
- secure fastening

Special features:

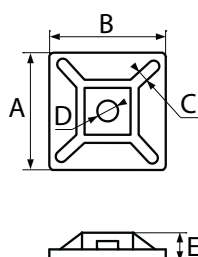
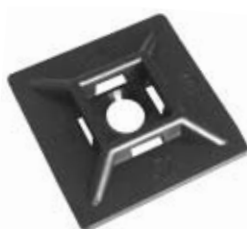
- material - polyamide PA66
- black colour with UVC mark in product code means strengthened resistance to UV radiation
- usage temperature from: - 40°C to +85°C
- minimal temperature for installation of the product: - 20°C



Characteristics		
Physical	Resistance to external factors	Yes
	Resistance to fire (use of classified materials UL94V2)	Yes
	Humidity absorption at 50% UR air exposure	2,7%
Thermal	Usage temperature	-40°C ÷ +85°C
	Fitting temperature	-10°C ÷ +60°C
	Max momentary working temperature	+110°C
	Melting point	+256°C
Chemical	Resistance to oils, fats, detergents, refinery products, chlorine solvents and alcohol	Yes
	Resistance to phenol	No

Index for natural colour	Index for black colour	Index for black colour with strengthened UV-resistance	Dimensions (L x W) [mm]	Maximum bunch diameter	Tensile strength [kg]
OPK 2,5-80-N/100	OPK 2,5-80-C/100	OPK 2,5-80-UVC/100	80x2,5	14	8,0
OPK 2,5-100-N/100	OPK 2,5-100-C/100	OPK 2,5-100-UVC/100	100x2,5	20,5	8,0
OPK 2,5-150-N/100	OPK 2,5-150-C/100	OPK 2,5-150-UVC/100	150x2,5	36,5	8,0
OPK 2,5-160-N/100	OPK 2,5-160-C/100	OPK 2,5-160-UVC/100	160x2,5	39,8	8,0
OPK 2,5-200-N/100	OPK 2,5-200-C/100	OPK 2,5-200-UVC/100	200x2,5	52,5	8,0
OPK 3,6-140-N/100	OPK 3,6-140-C/100	OPK 3,6-140-UVC/100	140x3,6	33	18,0
OPK 3,6-200-N/100	OPK 3,6-200-C/100	OPK 3,6-200-UVC/100	200x3,6	46	18,0
OPK 3,6-300-N/100	OPK 3,6-300-C/100	OPK 3,6-300-UVC/100	300x3,6	84	18,0
OPK 3,6-370-N/100	OPK 3,6-370-C/100	OPK 3,6-370-UVC/100	370x3,6	106	18,0
OPK 4,8-160-N/100	OPK 4,8-160-C/100	OPK 4,8-160-UVC/100	160x4,8	36,6	23,0
OPK 4,8-200-N/100	OPK 4,8-200-C/100	OPK 4,8-200-UVC/100	200x4,8	49,5	23,0
OPK 4,8-250-N/100	OPK 4,8-250-C/100	OPK 4,8-250-UVC/100	250x4,8	65	23,0
OPK 4,8-300-N/100	OPK 4,8-300-C/100	OPK 4,8-300-UVC/100	300x4,8	81	23,0
OPK 4,8-360-N/100	OPK 4,8-360-C/100	OPK 4,8-360-UVC/100	360x4,8	100	23,0
OPK 4,8-430-N/100	OPK 4,8-430-C/100	OPK 4,8-430-UVC/100	430x4,8	122,5	23,0
OPK 4,8-550-N/100	OPK 4,8-550-C/100	OPK 4,8-550-UVC/100	550x4,8	145	23,0
OPK 7,6-200-N/100	OPK 7,6-200-C/100	OPK 7,6-200-UVC/100	200x7,6	50,9	54,0
OPK 7,6-250-N/100	OPK 7,6-250-C/100	OPK 7,6-250-UVC/100	250x7,6	66,8	54,0
OPK 7,6-300-N/100	OPK 7,6-300-C/100	OPK 7,6-300-UVC/100	300x7,6	82,8	54,0
OPK 7,6-360-N/100	OPK 7,6-360-C/100	OPK 7,6-360-UVC/100	360x7,6	103,5	54,0
OPK 7,6-450-N/100	OPK 7,6-450-C/100	OPK 7,6-450-UVC/100	450x7,6	130,5	54,0
OPK 7,6-540-N/100	OPK 7,6-540-C/100	OPK 7,6-540-UVC/100	540x7,6	159	54,0
OPK 9,0-550-N/100	OPK 9,0-550-C/100	OPK 9,0-550-UVC/100	550x9,5	163,5	80,0
OPK 9,0-780-N/100	OPK 9,0-780-C/100	OPK 9,0-780-UVC/100	780x9,0	235,5	80,0

Fixing element for cable ties OPK EM



Fixing element for cable ties, self-adhesive or tightened. It provides a simple, fast and stable mounting of the cable ties to various substrates. Adhesive tape used in the element mounting fastens installation.

Special features:

- material: polyamide PA 66
- flammability class UL94V2
- operating temperature from -40 °C to + 85 °C
- natural colour - for internal use
- black colour - for external use



NOPK 4,8 Tool

Automatic tool for tightening and cutting cable tie in one step:

- for cable ties of width 2,2 ÷ 4,8 mm
- made of varnished steel

Length: 160 mm; Weight: 350 g



RTC Thin wall heat shrinkable tubing

Heat shrinkable tubing with glue for insulation, protection against mechanical damage and also cables and wires identification:

- diameter decreases while shrinking so tubing seals applied elements
- weather conditions resistant
- protection against moisture
- fungi, chemicals and corrosion resistant
- self-extinguishing according to UL 94-HB standard
- products are compliant with REACH & RoHS directives
- free from halogen compounds



Characteristics		
Physical	Tensile strenght	10 N/mm ²
	Extension at rupture	200%
	Length change	≤ +5%, ≤ -10%
	Water soaking	< 0,5%
	Density	1.20 g/cm ³
Thermal	Constant working temperature	-30°C do +105°C
	Minimum shrinking temperature	> 90°C
	Thermal shock (4 hours in 250°C)	doesn't drip, doesn't break, doesn't melt
	Thermal ageing (168 hours in 175°C)	extension 100%
	Flexibility at low temperatures (-55°C)	doesn't break
Electrical	Storing temperature	recommended ≤ 40°C
	Dielectric strength	20 kV/m

Symbol	Colour	Min. Ø before shrinking [mm]	Max. Ø after shrinking [mm]	Wall thickness after shrinking [mm]	Number of pieces per unit [1 piece = 1 m]
RTC 1.6-0.8-C/1	black				100
RTC 1.6-0.8-B/1	white				100
RTC 1.6-0.8-ZZT/1	yellow-green	1,60	0,8	0,43	100
RTC 1.6-0.8-N/1	blue				100
RTC 1.6-0.8-M/1	mix				100
RTC 2.4-0.8-C/1	black				100
RTC 2.4-0.8-B/1	white				100
RTC 2.4-0.8-ZZT/1	yellow-green	2,40	0,8		100
RTC 2.4-0.8-N/1	blue				100
RTC 2.4-0.8-M/1	mix				100
RTC 3.2-1.6-C/1	black				100
RTC 3.2-1.6-B/1	white				100
RTC 3.2-1.6-ZZT/1	yellow-green	3,20	1,6	0,51	100
RTC 3.2-1.6-N/1	blue				100
RTC 3.2-1.6-M/1	mix				100
RTC 4.8-2.4-C/1	black				40
RTC 4.8-2.4-B/1	white				40
RTC 4.8-2.4-ZZT/1	yellow-green	4,80	2,4	0,51	40
RTC 4.8-2.4-N/1	blue				40
RTC 4.8-2.4-M/1	mix				40
RTC 6.4-3.2-C/1	black				40
RTC 6.4-3.2-B/1	white				40
RTC 6.4-3.2-ZZT/1	yellow-green	6,40	3,2	0,65	40
RTC 6.4-3.2-N/1	blue				40
RTC 6.4-3.2-M/1	mix				40
RTC 9.5-4.8-C/1	black				20
RTC 9.5-4.8-B/1	white				20
RTC 9.5-4.8-ZZT/1	yellow-green	9,50	4,8	0,65	20
RTC 9.5-4.8-N/1	blue				20
RTC 9.5-4.8-M/1	mix				20
RTC 12.7-6.4-C/1	black				20
RTC 12.7-6.4-B/1	white	12,70	6,4	0,65	20
RTC 12.7-6.4-ZZT/1	yellow-green				20

Symbol	Colour	Min. Ø before shrinking [mm]	Max. Ø after shrinking [mm]	Wall thickness after shrinking [mm]	Number of pieces per unit [1 piece = 1 m]
RTC 12.7-6.4-N/1	blue	12,70	6,4	0,65	20
RTC 12.7-6.4-M/1	mix				20
RTC 15.9-8.0-C/1	black				20
RTC 15.9-8.0-B/1	white				20
RTC 15.9-8.0-ZZT/1	yellow-green	15,90	8		20
RTC 15.9-8.0-N/1	blue				20
RTC 15.9-8.0-M/1	mix				20
RTC 19.1-9.5-C/1	black				10
RTC 19.1-9.5-B/2	white				10
RTC 19.1-9.5-ZZT/1	yellow-green	19,10	9,5		10
RTC 19.1-9.5-N/1	blue				10
RTC 19.1-9.5-M/1	mix				10
RTC 25.4-12.7-C/1	black				10
RTC 25.4-12.7-B/1	white				10
RTC 25.4-12.7-ZZT/1	yellow-green	25,40	12,7	0,89	10
RTC 25.4-12.7-N/1	blue				10
RTC 25.4-12.7-M/1	mix				10
RTC 31.8-15.9-C/1	black				10
RTC 31.8-15.9-B/1	white				10
RTC 31.8-15.9-ZZT/1	yellow-green	31,80	15,9		10
RTC 31.8-15.9-N/1	blue				10
RTC 31.8-15.9-M/1	mix				10
RTC 38.1-19.1-C/1	black				10
RTC 38.1-19.1-B/1	white				10
RTC 38.1-19.1-ZZT/1	yellow-green	38,10	19,1		10
RTC 38.1-19.1-N/1	blue				10
RTC 38.1-19.1-M/1	mix				10
RTC 50.8-25.4-C/1	black				10
RTC 50.8-25.4-B/1	white				10
RTC 50.8-25.4-ZZT/1	yellow-green	50,80	25,4		10
RTC 50.8-25.4-N/1	blue				10
RTC 50.8-25.4-M/1	mix				10

RTCK Thin wall heat shrinkable tubing with glue



Heat shrinkable tubing with glue for insulation, protection against mechanical damage and also cables and wires identification:

- contains glue which melts in high temperature and seals applied elements
- excellent insulation and protection against moisture
- weather conditions resistant
- high shrinking ratio 3:1 or 4:1
- strong adhesion to steel, plastic and other materials
- shrinking temperature > 100°C
- working temperature of -55°C - +110°C

Symbol	Colour	Min. Ø before shrinking [mm]	Max. Ø after shrinking [mm]	Wall thickness after shrinking [mm]	Number of pieces per unit [1 piece = 1 m]
RTCK 3-1-C/1	black				40
RTCK 3-1-T/1	transparent	3	1	1	40
RTCK 4-1-C/1	black				20
RTCK 4-1-T/1	transparent				20
RTCK 4.8-1.6-C/1	black	4,8	1,6	1	40
RTCK 4.8-1.6-T/1	transparent				40
RTCK 6-2-C/1	black	6	2	1,1	20
RTCK 6-2-T/1	transparent				20
RTCK 8-2-C/1	black				20
RTCK 8-2-T/1	transparent				20
RTCK 9-3-C/1	black	9	3	1,3	20
RTCK 9-3-T/1	transparent				20
RTCK 12-3-C/1	black				20
RTCK 12-3-T/1	transparent				20
RTCK 12-4-C/1	black	12	4	1,7	20
RTCK 12-4-T/1	transparent				20
RTCK 18-6-C/1	black	18	6	2	10
RTCK 18-6-T/1	transparent				10
RTCK 24-8-C/1	black	24	8	2,5	10
RTCK 24-8-T/1	transparent				10

Characteristics		
Physical	Tensile strenght	11 N/mm ²
	Extension at rupture	300%
	Length change	≤ +1%, ≤ -15%
	Water soaking	< 0,5%
Thermal	Density	1.45 g/cm ³
	Constant working temperature	-55°C do + 110°C
	Minimum shrinking temperature	> 90°C
	Thermal shock (4 hours in 250°C)	doesn't drip, doesn't break, doesn't melt
	Thermal ageing (168 hours in 175°C)	extension 250%
Electrical	Flexibility at low temperatures (-55°C)	doesn't break
	Flammability	meets
	Dielectric strength	15 kV/m

RTCS Thin wall self extinguishable heat shrinkable tubing



RTCS Thin wall self extinguishable heat shrinkable tubing for general use, with with increased flexibility.

- used for insulation and identification of cables and mechanical protection
- provide good mechanical and electrical parameters
- low shrink temperature
- increased resistance temperature

Symbol	Colour	Min. Ø before shrinking [mm]	Max. Ø after shrinking [mm]	Wall thickness after shrinking [mm]	Number of pieces per unit [1 piece = 1 m]
RTCS 1.6-0.8-B/1	white				100
RTCS 1.6-0.8-N/1	blue	1,6	0,8	0,43	100
RTCS 1.6-0.8-C/1	black				100
RTCS 2.4-1.2-B/1	white				100
RTCS 2.4-1.2-N/1	blue	2,4	1,2	0,51	100
RTCS 2.4-1.2-C/1	black				100
RTCS 3.2-1.6-B/1	white				100
RTCS 3.2-1.6-N/1	blue	3,2	1,6	0,51	100
RTCS 3.2-1.6-C/1	black				100
RTCS 4.8-2.4-B/1	white				40
RTCS 4.8-2.4-N/1	blue	4,8	2,4	0,51	40
RTCS 4.8-2.4-C/1	black				40
RTCS 6.4-3.2-B/1	white				40
RTCS 6.4-3.2-N/1	blue	6,4	3,2	0,64	40
RTCS 6.4-3.2-C/1	black				40
RTCS 9.5-4.8-B/1	white				20
RTCS 9.5-4.8-N/1	blue	9,5	4,8	0,64	20
RTCS 9.5-4.8-C/1	black				20
RTCS 12.7-6.4-B/1	white				20
RTCS 12.7-6.4-N/1	blue	12,7	6,4	0,64	20
RTCS 12.7-6.4-C/1	black				20
RTCS 19.1-9.5-B/1	white				10
RTCS 19.1-9.5-N/1	blue	19,1	9,5	0,77	10
RTCS 19.1-9.5-C/1	black				10
RTCS 25.4-12.7-B/1	white				10
RTCS 25.4-12.7-N/1	blue	25,4	12,7	0,89	10
RTCS 25.4-12.7-C/1	black				10

Characteristics		
Physical	Relative density	1,47 ± 0,2 g/cm ³
	Moisture absorption	< 0,20%
	Tensile strength	13 N/mm ² (min)
	Elongation at break	350%
Thermal	Longitudinal shrink	< 5%
	Constant working temperature	from -30°C to +135°C
	Minimum shrinking temperature	90°C
	Resistance to thermal shock	meets
	Flexibility at low temperatures	meets
Electrical	Combustibility	meets UL 224
	Volume resistivity	10 ¹² Ωm
Chemical	Dielectric strength	20 kV/mm
	Resistance to fungus	good
	Chemical resistance	good
	Corrosion resistance	yes

Symbol	Colour	Min. Ø before shrinking [mm]	Max. Ø after shrinking [mm]	Wall thickness after shrinking [mm]	Number of pieces per unit [1 piece = 1 m]
RTCS 38.1-19.1-B/1	white				10
RTCS 38.1-19.1-N/1	blue	38,1	19,1	1,02	10
RTCS 38.1-19.1-C/1	black				10
RTCS 50.8-25.4-B/1	white				10
RTCS 50.8-25.4-N/1	blue	50,8	25,4	1,14	10
RTCS 50.8-25.4-C/1	black				10
RTCS 76.2-38.1-B/1	white				5
RTCS 76.2-38.1-N/1	blue	76,2	38,1	1,27	5
RTCS 76.2-38.1-C/1	black				5
RTCS 101.6-50.8-B/1	white				5
RTCS 101.6-50.8-N/1	blue	101,6	50,8	1,4	5
RTCS 101.6-50.8-C/1	black				5



RNT Heat shrinkable repair sleeves

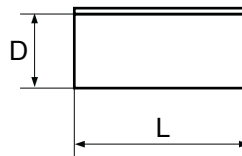


Heat shrinkable repair sleeves for quick, durable and efficient repair of the damaged cable coating without the need to cut it and for the purpose to protect the mechanical, corrosion and water supply and gas pipelines.

- covering the inner surface of the sleeve with a layer of hot melt glue, guarantees accurate and resistant to external conditions bonding with cable coat and compensation for any unevenness
- coating the outer layer of the sleeve with thermochromic paint which changes color after reaching the target temperature and prevents overheating of the material during its shrinking



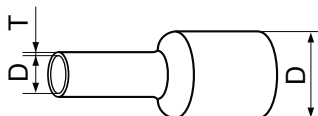
Characteristics		
Physical	Tensile strength	17,5 N/mm ² (min)
	Elongation at break	300% (min)
	Moisture absorption	0,1% (max)
	Resistance to radiation ESCR 48 hours at 50°C	lack of dissection lack of cracks
Physical after aging at 120 ° C for 500 hours	Tensile strength	15 N/mm ² (min)
	Elongation at break	200%
Electrical	Dielectric strength	12 kV/mm(min)
Chemical	Chemical resistance	good
	Tensile strength	15 N/mm ² (min)
	Elongation at break	200%
Limit temperature signaled by the color change of the paint	150°C during 30 min 250°C	lack of colour change



Symbol	Colour	D max. ∅ before shrinking [mm]	D min. ∅ before shrinking [mm]	Wall thickness before shrinking together with the layer of glue T [mm] ± 20%	Length L [mm]	Number of pieces per unit
RNT 42-08-250/1	black				250	
RNT 42-08-500/1	black				500	
RNT 42-08-750/1	black	42	8	0,9	750	1
RNT 42-08-1000/1	black				1000	
RNT 42-08-1500/1	black				1500	
RNT 76-22-250/1	black				250	
RNT 76-22-500/1	black				500	
RNT 76-22-750/1	black	76	22	0,9	750	1
RNT 76-22-1000/1	black				1000	
RNT 76-22-1500/1	black				1500	
RNT 100-30-250/1	black				250	
RNT 100-30-500/1	black				500	
RNT 100-30-750/1	black	100	30	0,9	750	1
RNT 100-30-1000/1	black				1000	
RNT 100-30-1500/1	black				1500	
RNT 139-38-250/1	black				250	
RNT 139-38-500/1	black				500	
RNT 139-38-750/1	black	139	38	0,9	750	1
RNT 139-38-1000/1	black				1000	
RNT 139-38-1500/1	black				1500	
RNT 185-55-250/1	black				250	
RNT 185-55-500/1	black				500	
RNT 185-55-750/1	black	185	55	0,9	750	1
RNT 185-55-1000/1	black				1000	
RNT 185-55-1500/1	black				1500	
RNT 210-55-250/1	black				250	
RNT 210-55-500/1	black				500	
RNT 210-55-750/1	black	210	55	0,9	750	1
RNT 210-55-1000/1	black				1000	
RNT 210-55-1500/1	black				1500	



RTP Thickened heat shrinkable sleeves



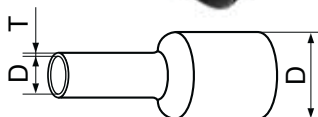
Thickened heat shrinkable repair sleeves for repair of the direct insulation on cables up to 1kV and external cable coatings nN and Sn.

- made of thermally stabilized, cross-linked polymers
- resistant to changing weather conditions
- provide flexible seals, very high mechanical and chemical protection
- protects against UV rays
- shrink ratio 3: 1

Symbol	Colour	Min. ø before Shrinking D [mm]	Max. ø after Shrinking D [mm]	Wall thickness after shrinking T [mm]	Number of pieces per unit [1 piece = 1m]
RTP 9-3-C/1	black	9	3	1,7	10
RTP 12-4-C/1	black	12	4	2	10
RTP 22-6-C/1	black	22	6	2,5	10
RTP 30-8-C/1	black	30	8	2,5	10
RTP 34-7-C/1	black	34	7	3	10
RTP 40-12-C/1	black	40	12	2,8	10
RTP 55-16-C/1	black	55	16	3	10
RTP 65-19-C/1	black	65	19	3	10
RTP 80-22-C/1	black	80	22	3,2	10
RTP 100-30-C/1	black	100	30	3,2	5
RTP 140-40-C/1	black	140	40	3,2	5

Characteristics		
Physical	Relative density	1,25 ± 0,2 g/cm³
	Moisture absorption	0,2% (max)
	Tensile strength	10 N/mm² (min)
	Elongation at break	350% (min)
Physical after aging at 120°C for 500 hours	Tensile strength	8 N/mm² (min)
	Elongation at break	300% (min)
Electrical	Slope resistivity	10 ¹⁰ Ωm (min)
	Dielectric strength	8 kV/mm (min)
	Constant dielectric	3,5 (max)
Chemical	Resistance to fungus	<1
	Salt spray test	meets good
	Chemical resistance	good

RTPK Thickened heat shrinkable sleeve with glue



Thickened heat shrinkable repair sleeves with glue for repair of the direct insulation on cables up to 1kV and external cable coatings nN and Sn.

- made of thermally stabilized, cross-linked polymers
- inner side of the pipe covered with a layer of thermoplastic glue
- resistant to changing weather conditions
- provide flexible seals, very high mechanical and chemical protection
- protects against UV rays
- shrink ratio 3: 1

Symbol	Colour	Min. ø before Shrinking D [mm]	Max. ø after Shrinking D [mm]	Wall thickness after shrinking T [mm]	Number of pieces per unit [1 piece = 1m]
RTPK 9-3-C/1	black	9	3	1,7	10
RTPK 12-4-C/1	black	12	4	2	10
RTPK 22-6-C/1	black	22	6	2,5	10
RTPK 30-8-C/1	black	30	8	2,5	10
RTPK 34-7-C/1	black	34	7	3	10
RTPK 40-12-C/1	black	40	12	2,8	10
RTPK 55-16-C/1	black	55	16	3	10
RTPK 65-19-C/1	black	65	19	3	10
RTPK 80-22-C/1	black	80	22	3,2	10
RTPK 100-30-C/1	black	100	30	3,2	10
RTPK 140-40-C/1	black	140	40	3,2	10
RTPK 160-50-C/1	black	160	50	3	1
RTPK 180-60-C/1	black	180	60	3	1
RTPK 200-65-C/1	black	200	65	3,5	1
RTPK 235-65-C/1	black	235	65	3,5	1

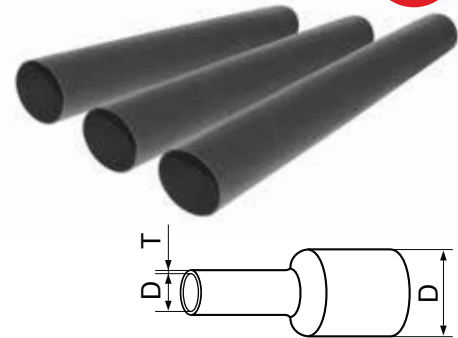
Characteristics		
Physical	Relative density	1,25 ± 0,2 g/cm³
	Moisture absorption	0,2% (max)
	Tensile strength	10 N/mm² (min)
	Elongation at break	350% (min)
Physical after aging at 120°C for 500 hours	Tensile strength	8 N/mm² (min)
	Elongation at break	300% (min)
Electrical	Slope resistivity	10 ¹⁰ Ωm (min)
	Dielectric strength	8 kV/mm (min)
	Constant dielectric	3,5 (max)
Chemical	Resistance to fungus	good
	Salt spray test	meets good
	Chemical resistance	good



RTG Thick-wall heat shrinkable sleeves

Thick-wall heat shrinkable sleeves for repair of the direct insulation on cables up to 1kV and external cable coatings nN and Sn.

- made of thermally stabilized, cross-linked polymers
- resistant to changing weather conditions
- provide flexible seals, very high mechanical and chemical protection
- protects against UV rays
- shrink ratio 3: 1



Characteristics		
Physical	Relative density	1,25 ± 0,2 g/cm ³
	Moisture absorption	0,2% (max)
	Tensile strength	10 N/mm ² (min)
	Elongation at break	350% (min)
Physical after aging at 120°C for 500 hours	Tensile strength	8 N/mm ² (min)
	Elongation at break	300% (min)
Electrical	Slope resistivity	10 ¹⁰ Ωm (min)
	Dielectric strength	8 kV/mm (min)
	Constant dielectric	3,5 (max)
Chemical	Resistance to fungus	good
	Salt spray test	meets
	Chemical resistance	good

Symbol	Colour	Min. Ø before Shrinking D [mm]	Max. Ø after Shrinking D [mm]	Wall thickness after shrinking T [mm]	Number of pieces per unit [1 piece = 1m]
RTG 55-16-C/1	black	55	16	4	1
RTG 92-26-C/1	black	92	26	4,2	1
RTG 120-43-C/1	black	120	43	4,2	1
RTG 140-37-C/1	black	140	37	4,3	1



RTGK Thick-wall heat shrinkable sleeves with glue

Thick-wall heat shrinkable sleeves with glue for repair of the direct insulation on cables up to 1kV and external cable coatings nN and Sn.

- made of thermally stabilized, cross-linked polymers
- inner side of the pipe covered with a layer of thermoplastic glue
- resistant to changing weather conditions
- provide flexible seals
- very high mechanical and chemical protection
- designed for work in extreme conditions
- protects against UV rays
- shrink ratio 3: 1



Characteristics		
Physical	Relative density	1,25 ± 0,2 g/cm ³
	Moisture absorption	0,2% (max)
	Tensile strength	10 N/mm ² (min)
	Elongation at break	350% (min)
Physical after aging at 120°C for 500 hours	Tensile strength	8 N/mm ² (min)
	Elongation at break	300% (min)
Electrical	Slope resistivity	10 ¹⁰ Ωm (min)
	Dielectric strength	8 kV/mm (min)
	Constant dielectric	3,5 (max)
Chemical	Resistance to fungus	good
	Salt spray test	meets
	Chemical resistance	good

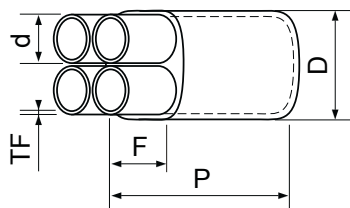
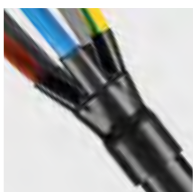
Symbol	Colour	Min. Ø before Shrinking D [mm]	Max. Ø after Shrinking D [mm]	Wall thickness after shrinking T [mm]	Number of pieces per unit [1 piece = 1m]
RTGK 55-16-C/1	black	55	16	4	1
RTGK 92-26-C/1	black	92	26	4,2	1
RTGK 120-34-C/1	black	120	34	4,2	1
RTGK 140-37-C/1	black	140	37	4,3	1



PT heat shrinkable breakouts



NEW



Heat shrinkable breakouts for insulating of cable ends at separated cores, plastic, rubber or resaturated paper insulated.

- used for voltage up to 0,6 / 1kV as a direct electrical insulation
- used for voltage up to 18 / 30kV as a component of heads sets
- possibility to use cables of two, three, four and five cores
- abrasion resistant
- resistant to changing weather conditions
- resistant to most chemicals
- resistant to UV radiation
- made of thermally stabilized polymers
- covered on the inside with hot melt glue, providing the additional seal

Characteristics		
Physical	Density	1,05 ± 0,2 g/cm ³
	Tensile strength	13 N/mm ² (min)
	Elongation at break	400% (min)
	Moisture absorption	0,15% (max)
Physical after aging at 120°C for 500 hours	Longitudinal shrink	10%
	Tensile strength	12 N/mm ² (min)
Electrical	Elongation at break	300% (min)
	Slope resistivity	10 ¹⁰ Ωm (min)
	Dielectric strength	10 kV/mm (min)
Chemical	Constant dielectric	5 (max)
	Corosion	black
	Resistance to fungus	good

PT2 two output shrinkable breakout

Symbol	ø main D		ø output d		Overall length P [mm]		The length of a finger F [mm]	The thickness of the TF [mm]
	Min. ø before Shrinking [mm]	Max. ø after Shrinking [mm]	Min. ø before Shrinking [mm]	Max. ø after Shrinking [mm]	Min. ø before Shrinking [mm]	Max. ø after Shrinking [mm]	Min. ø before Shrinking [mm]	Dimension after total shrinking ± 20%
PT2 1,5-25-C/1	30	10	12	4	65-68	87-90	15-17	1
PT2 25-150-C/1	50	24	21	7	85-88	118-121	25-27	2,5
PT2 50-185-C/1	90	45	43	15	165-170	185-195	60-65	2,2

PT3 three output shrinkable breakout

Symbol	ø main D		ø output d		Overall length P [mm]		The length of a finger F [mm]	The thickness of the TF [mm]
	Min. ø before Shrinking [mm]	Max. ø after Shrinking [mm]	Min. ø before Shrinking [mm]	Max. ø after Shrinking [mm]	Min. ø before Shrinking [mm]	Max. ø after Shrinking [mm]	Min. ø before Shrinking [mm]	Dimension after total shrinking ± 20%
PT3 1,5-10-C/1	28	9	9	3	55-53	70-72	15-17	1,8
PT3 6-35-C/1	35	15	13	4	85-88	100-102	20-23	1,8
PT3 25-120-C/1	55	23	25	8	130-133	165-177	35-37	2,5
PT3 50-185-C/1	75	28	35	13	170-173	211-215	43-47	3
PT3 120-300-C/1	110	35	50	17	180-183	210-220	50-55	3,5
PT3 240-1000-C/1	170	56	64	28	190-200	225-230	56-60	3,5

PT4 four output shrinkable breakout

Symbol	ø main D		ø output d		Overall length P [mm]		The length of a finger F [mm]	The thickness of the TF [mm]
	Min. ø before Shrinking [mm]	Max. ø after Shrinking [mm]	Min. ø before Shrinking [mm]	Max. ø after Shrinking [mm]	Min. ø before Shrinking [mm]	Max. ø after Shrinking [mm]	Min. ø before Shrinking [mm]	Dimension after total shrinking ± 20%
PT4_1,5-10-C/1	28	9	8	2	55-58	77-80	15-17	1,7
PT4_6-35-C/1	35	15	13	4	80-83	102-105	20-23	1,8
PT4_25-120-C/1	55	23	20	8	130-133	167-170	35-38	3
PT4_35-185-C/1	70	25	25	8	150-153	186-194	32-35	2,5
PT4_120-400-C/1	95	36	35	14	170-173	220-222	49-53	3
PT4_185-530-C/1	117	36	46	14	170-173	220-222	49-53	3

PT5 five output shrinkable breakout

Symbol	ø main D		ø output d		Overall length P [mm]		The length of a finger F [mm]	The thickness of the TF [mm]
	Min. ø before Shrinking [mm]	Max. ø after Shrinking [mm]	Min. ø before Shrinking [mm]	Max. ø after Shrinking [mm]	Min. ø before Shrinking [mm]	Max. ø after Shrinking [mm]	Min. ø before Shrinking [mm]	Dimension after total shrinking ± 20%
PT5 1,5-10-C/1	35	15	20	3	75-80	90-100	19-21	1,8
PT5 6-35-C/1	50	15	15	4	78-83	95-105	23-25	2
PT5 25-120-C/1	65	21	20	8	130-133	165-170	35-38	2,3
PT5 35-185-C/1	70	15	20	13	78-83	95-105	23-25	2

MPT Joints



Joints are used to connect Y/A/KY and Y/A/KXS power cables.

- insulation of wires repaired using thickened heat shrinkable tubing with an inner layer of hot melt glue
- used for voltage up to 0,6/1 kV



Symbol	Number of veins	Cross-section		The length L [m]
		min	max	
MPT_1-CX1-10-25/1	1	1x10	1x25	0,5
MPT_2-CX1-16-70/1	1	1x16	1x70	0,75
MPT_3-CX1-70-120/1	1	1x70	1x120	1
MPT_4-CX1-120-150/1	1	1x120	1x150	1
MPT_5-CX1-120-300/1	1	1x120	1x300	1
MPT_1-CX4-10-25/1	4	4x10	4x25	0,8
MPT_2-CX4-16-70/1	4	4x16	4x70	0,8
MPT_3-CX4-70-120/1	4	4x70	4x120	0,8
MPT_4-CX4-120-150/1	4	4x120	4x150	1
MPT_5-CX4-120-300/1	4	4x120	5x300	1
MPT_2-CX5-16-70/1	5	5x16	5x70	0,8
MPT_5-CX5-120-300/1	5	5x120	5x300	1



TPVC Electrical tapes

Universal electrical tapes used to insulate electrical and telecommunication wires and cables also for labelling wires up to 6kV. Ideal for use in places where high electrical insulating properties are required.

Special features:

- Thermal class 1050
- Self-extinguishing
- Flexible
- Easily extensible
- Chemical factors resistant
- It keeps its characteristics in low temperatures



Symbol	Colour	Width [mm]	Lenght [m]	Number of pieces per unit
TPVC 15-10	White	15	10	10
	Braun	15	10	10
	Black	15	10	10
	Red	15	10	10
	Violet	15	10	10
	Multi	15	10	10
	Blue	15	10	10
	Orange	15	10	10
	Gray	15	10	10
	Green	15	10	10
	Yellow-Green	15	10	10

Symbol	Colour	Width [mm]	Lenght [m]	Number of pieces per unit
TPVC 19-20	White	19	20	8
	Braun	19	20	8
	Black	19	20	8
	Red	19	20	8
	Violet	19	20	8
	Multi	19	20	8
	Blue	19	20	8
	Orange	19	20	8
	Gray	19	20	8
	Green	19	20	8
	Yellow-Green	19	20	8



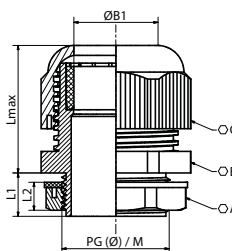
DK Cable glands



Cable glands designed to attach and secure the end of a cable to the equipment. Made of very resistant, self-extinguishing, free from halogen and phosphorus material. Easy to assemble.

Special features:

- Material: polyamid PA66
- Working temperature from -40°C up to 100°C
- Protection degree IP68
- Burning class UL94V-2
- Available sizes: PG7-PG48 and M12-M40
- Available in gray (RAL 7035) and black (RAL 9005) colours
- Nut has an integrated anti vibration protection



Symbol	Metric thread	Ø	Colour	L1 [mm]	L2 [mm]	Lmax [mm]	ØA [mm]	ØB [mm]	ØC [mm]	ØB1	Wires range
DK_M-12-C/1	M12×1.5	12	black	7,9	6	21	18	16	16	7,5	3-6.5
DK_M-12-S/1	M12×1.5	12	gray	7,9	6	21	18	16	16	7,5	3-6.5
DK_M-16-C/1	M16×1.5	16	black	15	6	25	22	19	19	8,8	5-10
DK_M-16-S/1	M16×1.5	16	gray	15	6	25	22	19	19	8,8	5-10
DK_M-20-C/1	M20×1.5	20	black	15	7	21	27	24	24	12,5	6-12
DK_M-20-S/1	M20×1.5	20	gray	15	7	21	27	24	24	12,5	6-12
DK_M-25-C/1	M25×1.5	25	black	15	7	33	33	33	33	19	13-18
DK_M-25-S/1	M25×1.5	25	gray	15	7	33	33	33	33	19	13-18
DK_M-32-C/1	M32×1.5	32	black	15	8	33	39	35	35	21	18-25
DK_M-32-S/1	M32×1.5	32	gray	15	8	33	39	35	35	21	18-25
DK_M-40-C/1	M40×1.5	40	black	18	10	45	51	47	50	32,2	25-32
DK_M-40-S/1	M40×1.5	40	gray	18	10	45	51	47	50	32,2	25-32

Symbol	PG thread	Ø	Colour	L1 [mm]	L2 [mm]	Lmax [mm]	ØA [mm]	ØB [mm]	ØC [mm]	ØB1	Wires range
DK_PG-7-C/1	7	12,2	black	8	5,5	21	18	16	16	6,9	3.5-6
DK_PG-7-S/1	7	12,2	gray	8	5,5	21	18	16	16	6,9	3.5-6
DK_PG-9-C/1	9	15,3	black	8,7	6,5	24	22	19	19	8,9	4-8
DK_PG-9-S/1	9	15,3	gray	8,7	6,5	24	22	19	19	8,9	4-8
DK_PG-11-C/1	11	18,3	black	8,9	6	25	24	22	22	11,3	5-10
DK_PG-11-S/1	11	18,3	gray	8,9	6	25	24	22	22	11,3	5-10
DK_PG-13,5-C/1	13,5	20,3	black	8,9	7	27	27	24	24	12,8	6-12
DK_PG-13,5-S/1	13,5	20,3	gray	8,9	7	27	27	24	24	12,8	6-12
DK_PG-16-C/1	16	22,3	black	10	7	29	29	27	27	13,7	10-14
DK_PG-16-S/1	16	22,3	gray	10	7	29	29	27	27	13,7	10-14
DK_PG-21-C/1	21	28,3	black	11,1	7	35	36	34	32	17,4	13-18
DK_PG-21-S/1	21	28,3	gray	11,1	7	35	36	34	32	17,4	13-18
DK_PG-29-C/1	29	37	black	11,9	8	40	46	42	42	25,3	18-25
DK_PG-29-S/1	29	37	gray	11,9	8	40	46	42	42	25,3	18-25
DK_PG-36-C/1	36	47	black	14	9	45	58	52	52	31,9	22-32
DK_PG-36-S/1	36	47	gray	14	9	45	58	52	52	31,9	22-32
DK_PG-42-C/1	42	53	black	14	9	49	64	62	60	37,1	32-38
DK_PG-42-S/1	42	53	gray	14	9	49	64	62	60	37,1	32-38
DK_PG-48-C/1	48	58,5	black	14	10	56	70	68	68	45,1	37-44
DK_PG-48-S/1	48	58,5	gray	14	10	56	70	68	68	45,1	37-44



KKG Cable Trays

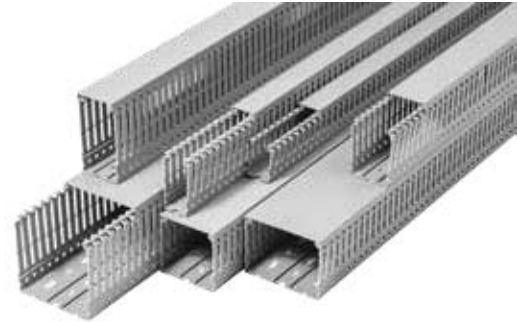
The cable trays used to carry electrical installations in control and switchgear cabinets.

Special features:

- base made of PCV-based technopolymer
- self extinguishable (UL 94) flammability class V0
- a perforated bottom made in accordance with DIN 43659
- simple assemble on the rail bottom
- ribs flexibility in trays allows their repeated flexing during installation



NEW



Symbol	Dimensions WxH [mm]	Length [m]	Number of pieces per unit
KKG 2540-2	25x40	2	50x2m
KKG 2560-2	25x60	2	35x2m
KKG 4040-2	40x40	2	35x2m
KKG 4060-2	40x60	2	28x2m
KKG 4080-2	40x80	2	20x2m
KKG 6040-2	60x40	2	25x2m
KKG 6060-2	60x60	2	16x2m
KKG 6080-2	60x80	2	16x2m
KKG 8080-2	80x80	2	12x2m
KKG 10080-2	100x80	2	10x2m
KKG 10060-2	100x60	2	10x2m



M TNO Tool box

Tool box:

- made of high quality polyester
- easy access to compartments
- front pocket for documents
- adjustable detachable cushioned strap
- handle for carrying
- metal latches for easy opening and closing, with key
- riveted construction
- aluminum edge reinforcement protects against damage and deformation

Dimensions: (LxWxH): 500 x 250 x 250 mm



M TNOK Open top tool bag

Open top tool bag:

- metal handle bar with foam grip for comfortable carrying
- regulated detachable cushioned strap
- multiple compartments outside and inside the bag
- reinforced bottom protecting tools
- detachable flap protecting bag inside

Dimensions: (LxWxH): 450 x 285 x 335 mm



M PBW Reinforced tool belt



- personalized combination of tools
 - includes black leather belt
 - soft breathing material on inner side
 - outer side made of polyester
 - riveted construction
- Length: 1380 mm

M KW Driver holster



- made of polyester
- small pockets for screwdriver bits
- leather strap holds securely in place
- power cable holder
- riveted construction

M KE Tool pouch



- made of polyester
- compact compartment inside (sealed)
- metal holder on chain for insulation tape
- screwdrivers and leather knife holder
- riveted construction

M UM Hammer loop



- made of polyester
- swinging loop enabling to hold the tool always in vertical position
- metal clips for easy lateral insert
- riveted construction

