MARKING MACHINE

XIK PROMARK

T-1000

Using good quality cables, wires and electrical components should be a matter of the highest priority. So is ensuring that personnel have the required knowledge and experience when performing installation or maintenance tasks. However, there is another, crucial factor to consider. Legible and durable marking, created using a method that makes it possible to read the description even after many years.

Innovation, practicality, reliability.

This is the main motto and the basic guidelines we follow when offering you our new printer model: PROMARK T-1000. Every solution developed by out experts is a result of many years of work, meticulous research and implemented upgrades. With this new model, we prove that the boundaries for the use of thermal transfer printing are being constantly pushed. Our print durability is second to none, making our products ideal for the most arduous environments.

Promark T-1000 is the crowning achievement of our 67-year experience.

Thanks to the properties of thermal transfer printing, our marking systems comply with the highest standards that installations face, even in the automotive or military industries. Solutions that we propose can be found in both the control cabinets and panel boards of leading generation and power distribution companies, as well as... the London Underground. Basically in all places where safety and reliability matter.

We are confident that we have resolved all of your doubts.

However, if you need advice or help in marking and identification, we are at your disposal.

We love to talk about these things. After all, we have been doing this for almost seven decades.

ProMark T-1000 is the latest addition to the ProMark family. The menu of the device is now available in the following languages: Polish, English, German, French, Swedish, Russian, Spanish and Portuguese. The new printer has all the advantages of previous models, such as: low weight, compact size and built-in internal memory, which allows you to work in the field. The electrical symbols library has been expanded with the following special characters: ⊞, ⊕, ◈, △, ⊟, ⊖, ◇, △.

Templates for each of the profile types that the T-1000 prints onto are stored in the printers menu, which makes it easier to choose an appropriate material and its size. After selecting the marker type, T-1000 automatically sets the text position and adjusts the cutting depth.

Easy to use, the high resolution backlit display and simple QWERTY keyboard make it possible to quickly produce additional markers. Advanced projects can be sent to T-1000 from the latest version of our WinSign software, which enables you to „copy and paste" directly from Excel spreadsheets.

Another version, the ProMark T-1000C is also available which has a Russian alphabet (Cyrillic) keyboard.

Profiles to print on:

- PO and POZ profiles with diameters of 1.3 – 5.5 mm (POZ is the halogen-free version)
- PHZ – round, halogen-free, heat shrinkable tubes with diameters 2.4 – 6.4 mm before shrinking
- PHZF – flat, halogen-free, heat shrinkable tubes with diameters 2.4 – 6.4 mm before shrinking
- PP+ profile – height of 4.6 and 9.0 mm compatible with profiles: PT+/PTC/PTZ and PM, PTM, PS
- PP+ profile – height of 6.3, 10.0 and 11.0 mm compatible with Wago connectors (TopJobs), Phoenix Contact, ABB (Entrelec)
- PPA+ – self-adhesive profile
- PO-068 profile – used for marking cables with PKH and POH holders
- T1000-PLL – self laminating marker for wires and cables
- T1000-PL – adhesive tape with a width of 6mm, 9mm and 12mm available in cassettes.

Temperature range
Temperature: 15°C - 32.5°C
Working temperature with the optional profile heater: from 5°C
Storage temperature: 5°C – 35°C
Recommended temperature of profile: 20°C

Thermal transfer printing resolution:
300 dpi

Print Speed
18.5 mm/s - low speed mode for profiles
25 mm/s – medium speed mode for profiles and tapes
40 mm/s – high speed mode for profiles and tapes

Height of text:
1.3, 2, 3 or 6 mm (narrow, normal or wide)

Maximum number of lines of text
3 lines for profiles and self-adhesive tapes

Connection with computer
Yes, WinSign T-1000 software + USB cable

Internal memory
Max 15000 characters

Number of characters sent from PC at one time
No limit if used with WinSign T-1000 software

Power:
Adapter 100~240 V AC (50~60 Hz)
Power: 13 W
Certificate with CE mark

**Dimensions and weight**
(L x W x H): 250 x 300 x 85 mm
Weight: 2 kg

ACCESSORIES

T1000-RB-BLACK	black ribbon 100 m
T1000-RB-WHITE	white ribbon 85 m
T1000-CU	cutting unit
T1000-TA	tube attachment
T1000-TA-CLEAN	cleaning kit guide for tube attachment (3 pcs)
T1000-PA	plate attachment
T1000-PA-CLEAN	cleaning kit guide for plate attachment (3 pcs)
T1000-TW	profile warmer
T1000-TW-CLEAN	cleaning kit guide for the profiles heater (3 pcs)
T1000-AF	profile feeder
T1000-HC	aluminium hard case
MK-RS3	small reel stand

PACKAGE CONTENTS

PROMARK T1000	ProMark T-1000 printer, black starting ribbon 40m, tube attachment, AC adapter, power cable, USB cable, software, soft carrying case, reel stand.
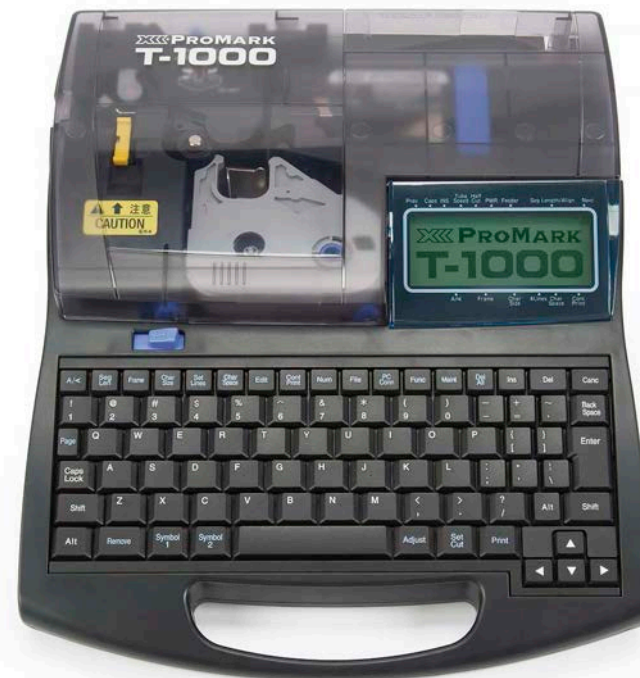
P0 - PROFILE

TYPE	HALOGEN FREE VERSION	DIAMETER min/max mm	CROSS SECTIONAL AREA mm^2	PACKAGING
P0-01	P0Z01	1.3/1.8	0.25	6 m
P0-02	P0Z02	1.7/2.2	0.5	60 m / 5 m
P0-03	P0Z03	2.0/2.5	0.75	50 m / 4,5 m
P0-04	P0Z04	2.2/2.8	1.0	50 m / 4,5 m
P0-05	P0Z05	2.7/3.5	1.5	40 m / 4 m
P0-06	P0Z06	3.2/4.0	2.5	40 m / 3,5 m
P0-068TW*	PKZ20*	6.8/7.0	-	50 m / 25 m / 4,5 m
P0-068Q	PKZ20Q10**	-	-	25 m
P0-06Q	-	-	-	40 m / 3,5 m
P0-07	P0Z07	3.8/4.7	4.0	30 m / 3,5 m
P0-08	P0Z08	4.6/5.5	6.0	30 m / 3 m

* to mount on PKH, POH holders; PKZ20 is packed on DN-reel, 20 m.
** mounted with cable ties. PKZ20Q10 is packed on DN-reel, 20m.

STANDARD COLOURS: yellow, white. Others on request.

PHZ - HEATSHRINKABLE TUBES

TYPE	DIAMETER BEFORE SHRINKING mm	DIAMETER AFTER SHRINKING mm	PACKAGING
PHZ20024	2.4	1.2	100 m
PHZ20032	3.2	1.6	15 m
PHZ20048	4.8	2.4	12 m
PHZ20064	6.4	3.2	12 m

STANDARD COLOURS: yellow, white. Others on request.

PHZF - FLAT HEATSHRINKABLE TUBES

TYPE	DIAMETER BEFORE SHRINKING mm	DIAMETER AFTER SHRINKING mm	PACKAGING
PHZF20024	2.4	1.2	100 m / 25 m
PHZF20032	3.2	1.6	100 m / 25 m
PHZF20048	4.8	2.4	100 m / 25 m
PHZF20064	6.4	3.2	100 m / 25 m

STANDARD COLOURS: yellow, white. Others on request.

PP+ / PPA+ - PROFILES

TYPE	WIDTH mm	PACKAGING	TO BE USED WITH
PP+046	4.6	disc 15 m	PT+, PTC, PTZ, PM-10
PP+063*	6.3	disc 15 m	terminals Phoenix Contact *
PP+09	9.0	disc 18 m	PM-20, PS
PP+100*	10.2	disc 15 m	terminals ABB (Entrelec)
PP+110*	11.0	disc 12 m	terminals Wago (TopJobs)
PPA+09	9.0	disc 10 m	components

* STANDARD COLOUR: white

STANDARD COLOURS: yellow, white.

PL / PLL - SELF - ADHESIVE LABELS

TYPE	WIDTH mm	COLOUR	LENGTH m	PACKAGING
T1000-PL060	6	yellow, white	30	1 cassette
		silver	27	
T1000-PL090	9	yellow, white	30	1 cassette
		silver	27	
T1000-PL120	12	yellow, white	30	1 cassette
		silver	27	
T1000-PLL33	33 (Print area height is 10 mm)	white	8	1 cassette

PO
FLAT PROFILE

PO-06000BN4

PHZ
HEATSHRINKABLE TUBES

PHZ20048BN4

PHZF
FLAT HEATSHRINKABLE TUBES

PHZF20127BN4

PP+
INSERTED INTO PT+

PT+20030K

PP+
INSERTED INTO PTC

PTC10021A4

PLL
SELF - LAMINATING LABEL T1000-PLL

PROMARK T1000-PLL
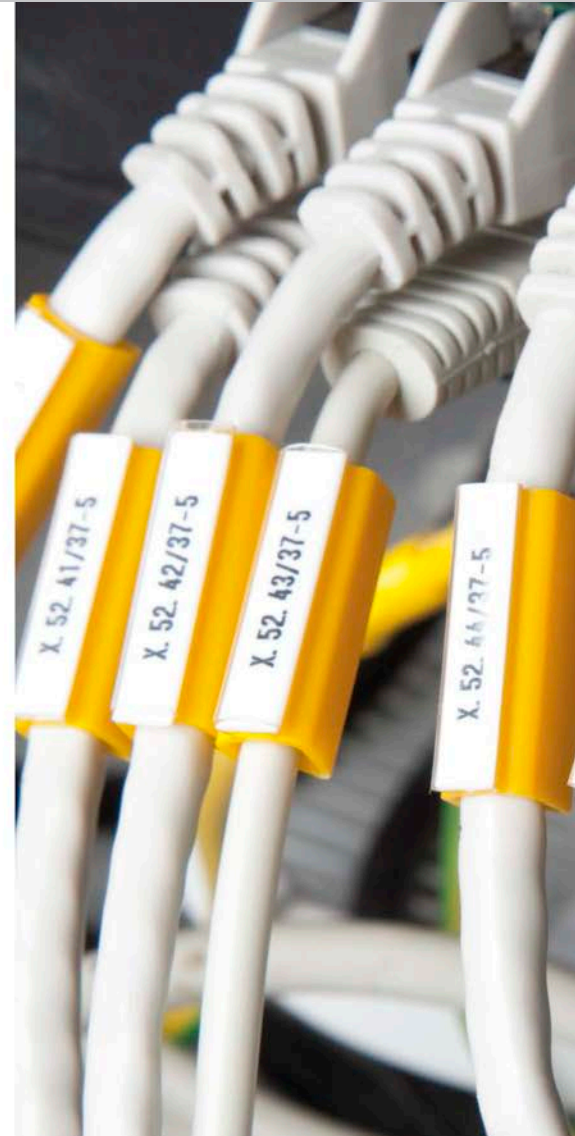
PO-068
PO-068 ON POH OR PKH HOLDER STRIP

PP+
INSERTED INTO PM

PP+
INSERTED INTO PTM
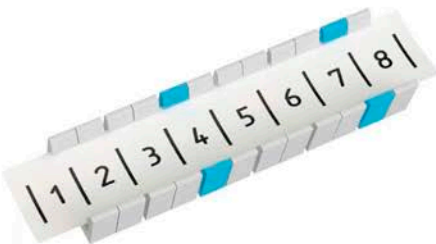
PP+
INSERTED INTO PS

PP+
PROFILE ON TERMINALS

PPA+
SELF - ADHESIVE PROFILE

PL
SELF - ADHESIVE LABEL MARKERS
T1000-PL
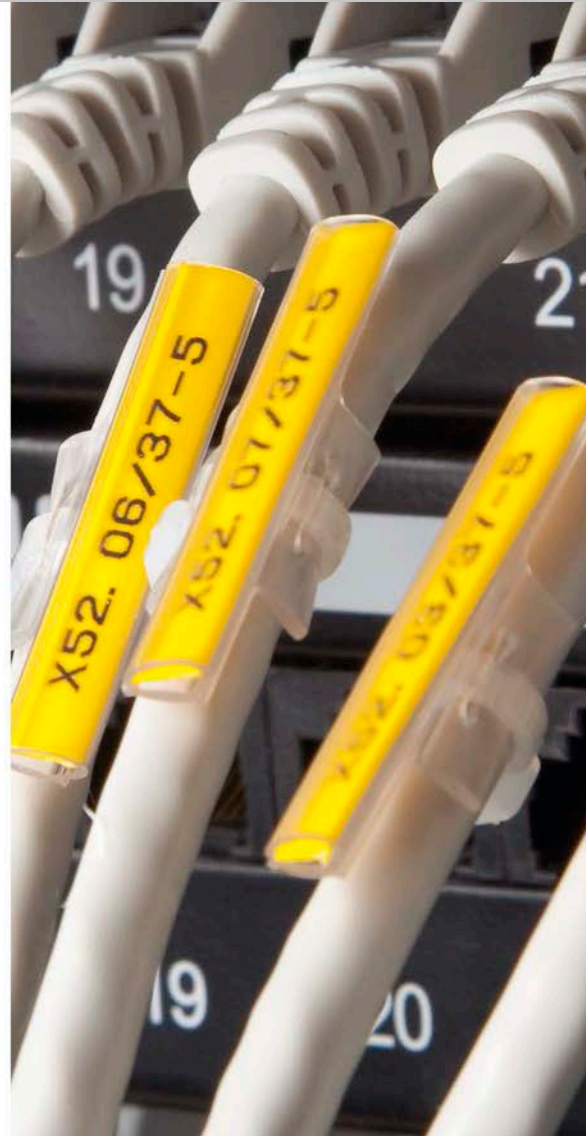
An optional aluminium hard case is also available for the printer to provide even greater protection.
Its special design allows you to print markers without the need to remove the printer from the case.

Backlit display, QWERTY keyboard and a convenient user-friendly menu make inputting data easy.
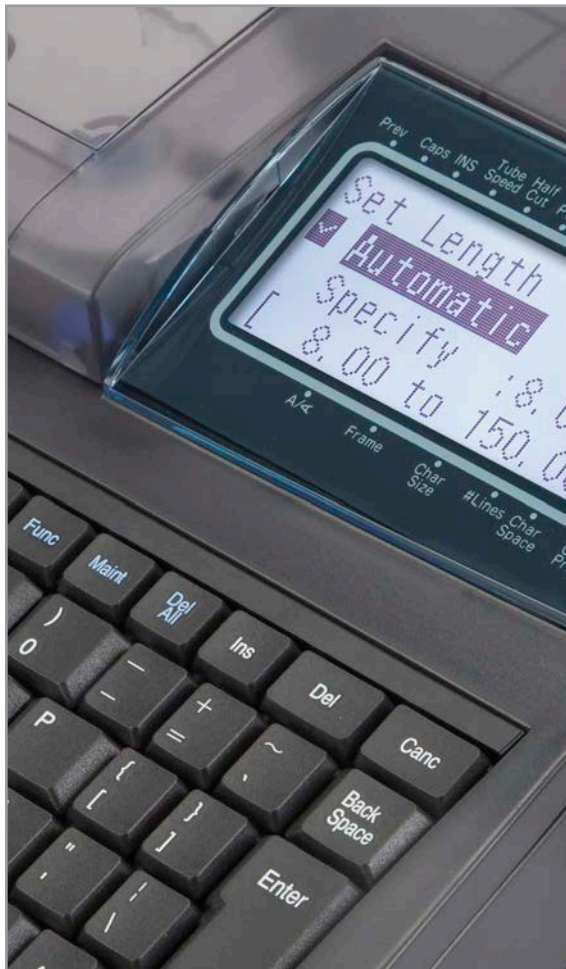
Optional automatic profile feeder unwinds profiles from disks or bulk rolls.

The Profile Heater improves the print quality, especially when printing at low temperatures (5 - 18 ° C). It can be used simultaneously with automatic profile feeder.

Printed markers are pre-cut to the length set by the operator or, automatically matched to the number of characters on your marker.

Fast USB 2.0 interface and dedicated software allows the operator to import data into the device. Ideal when working with Excel spreadsheets.

PO/POZ

PO PROFILE AND POZ, PHZ, PHZF HEAT SHRINKABLE TUBES ON BULK REELS

PP+

PP+, PPA+ AND PO-068 PROFILES ON COMPACT REELS

T1000-PL

T1000-PL SELF-ADHESIVE TYPE AND T1000-PLL SELF LAMINATING MARKER IN THE FORM OF CASSETTES

T1000-RB

CASSETTES WITH BLACK OR WHITE RIBBON

T1000-AF

PROFILE FEEDER

T1000-TW

PROFILE WARMER

T1000-TA-CLEAN

CLEANING UNIT

T1000-PA-CLEAN

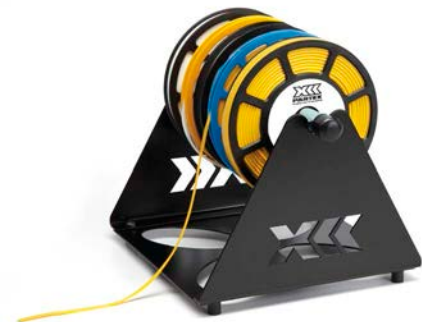CLEANING ELEMENT FOR PLATE ATTACHMENT

T1000-CU

CUTTER

T1000-CASE

SOFT CASE

T1000-HC

ALUMINIUM HARD CASE

MK-RS3

COMPACT PROFILE REELS

ARTICLE NUMBER	DESCRIPTION	PACKAGING
PRINTER		
PROMARK T1000	printer T1000 Starting ribbon 40 m black, tube attachment, AC adapter; power cable, USB cable, software, soft carrying case	1
ACCESSORIES		
T1000-RB-BLACK	black ribbon 100 m	5 pcs 500 m
T1000-RB-WHITE	white ribbon 85 m	5 pcs 425 m
T1000-CU	cutting unit	3 pcs
T1000-TA	tube attachment	1 pce
T1000-TA-CLEAN	cleaning kit guide for tube attachment (3 pcs)	1 pce
T1000-PA	plate attachment	1 pce
T1000-PA-CLEAN	cleaning kit guide for plate attachment (3 pcs)	1 pce
T1000-TW	profile warmer	1 pce
T1000-TW-CLEAN	cleaning kit guide for the profiles heater (3 pcs)	1 pce
T1000-AF	profile feeder	1 pce
T1000-HC	aluminium hard case	1 pce
MK-RS	bulk reel stand	1 pce
MK-RS3	small reel stand	1 pce

WIRE MARKERS

	PO PROFILE	DN / SN
PO-01000SN	PO profile 0.25 mm^2; DIAM 1.3 - 1.8 mm	6.0 m
PO-02000$^\wedge$N*	PO profile 0.50 mm^2; DIAM 1.7 - 2.2 mm	60 / 5.0 m
PO-03000$^\wedge$N*	PO profile 0.75 mm^2; DIAM 2.0 - 2.5 mm	50 / 4.5 m
PO-04000$^\wedge$N*	PO profile 1.00 mm^2; DIAM 2.2 - 2.8 mm	50 / 4.5 m
PO-05000$^\wedge$N*	PO profile 1.50 mm^2; DIAM 2.7 - 3.5 mm	40 / 4.0 m
PO-06000$^\wedge$N*	PO profile 2.50 mm^2; DIAM 3.2 - 4.0 mm	40 / 3.5 m
PO-07000$^\wedge$N*	PO profile 4.00 mm^2; DIAM 3.8 - 4.7 mm	30 / 3.5 m
PO-08000$^\wedge$N*	PO profile 6.00 mm^2; DIAM 4.6 - 5.5 mm	30 / 3.0 m

$^\wedge$ - PACKAGING ((D = DN-roll, S= SN-roll)); * - COLOUR (4 -yellow , 9 -white)

ARTICLE NUMBER	DESCRIPTION	PACKAGING
HALOGEN FREE POZ		**SN**
POZ01000SN*	POZ profile ZEREX 0.25 mm^2; DIAM 1.3 - 1.8 mm	6 m
POZ02000SN*	POZ profile ZEREX 0.50 mm^2; DIAM 1.7 - 2.2 mm	5 m
POZ03000SN*	POZ profile ZEREX 0.75 mm^2; DIAM 2.0 - 2.5 mm	4,5 m
POZ04000SN*	POZ profile ZEREX 1.00 mm^2; DIAM 2.2 - 2.8 mm	4,5 m
POZ05000SN*	POZ profile ZEREX 1.50 mm^2; DIAM 2.7 - 3.5 mm	4 m
POZ06000SN*	POZ profile ZEREX 2.50 mm^2; DIAM 3.2 - 4.0 mm	3,5 m
POZ07000SN*	POZ profile ZEREX 4.00 mm^2; DIAM 3.8 - 4.7 mm	3,5 m
POZ08000SN*	POZ profile ZEREX 6.00 mm^2; DIAM 4.6 - 5.5 mm	3 m
HEAT SHRINK TUBING PHZ HALOGEN FREE		**MN / BN**
PHZ20024BN*	heat shrink 2.4 mm / 1.2 mm, shrink ratio 2:1	100 m
PHZ20032^N	heat shrink 3.2 mm / 1.6 mm, shrink ratio 2:1	15 / 100 m
PHZ20048^N*	heat shrink 4.8 mm / 2.4 mm, shrink ratio 2:1	12 / 100 m
PHZ20064^N*	heat shrink 6.4 mm / 3.2 mm, shrink ratio 2:1	12 / 75 m
FLAT HEAT SHRINK TUBING PHZF HALOGEN FREE		**DN / BN**
PHZF20024^N*	flat heat shrink 2.4 mm / 1.2 mm, shrink ratio 2:1	25 / 100 m
PHZF20032^N*	flat heat shrink 3.2 mm / 1.6 mm, shrink ratio 2:1	25 / 100 m
PHZF20048^N*	flat heat shrink 4.8 mm / 2.4 mm, shrink ratio 2:1	25 / 100 m
PHZF20064^N*	flat heat shrink 6.4 mm / 3.2 mm, shrink ratio 2:1	25 / 100 m
MARKER TAG PROFILE		**SN**
PP+04600SN*	PP+ marker tag profile H = 4.6 mm, for PT+, PTC/PTZ, PM-10 i PTM10	17 m
PP+09000SN*	PP+ marker tag profile H = 9.0 mm, for PM-20, PTM20 i PS-20	17 m

^ - PACKAGING (S = SN-reel, D = DN-reel, B = BN-reel, M= minibox); * - COLOUR (4-yellow , 9-white)

ARTICLE NUMBER	DESCRIPTION	PACKAGING
MARKERS PT+		
PT+02015A	wire marker, cross - sectional area 0.25-1.5 mm^2 length 15 mm	200 pcs
PT+02021A	wire marker, cross - sectional area 0.25-1.5 mm^2 length 21 mm	200 pcs
PT+02030K	wire marker, cross - sectional area 0.25-1.5 mm^2 length 30 mm	500 pcs
PT+10015A	wire marker, cross - sectional area 1.5-4.0 mm^2 length 15 mm	200 pcs
PT+10021A	wire marker, cross - sectional area 1.5-4.0 mm^2 length 21 mm	200 pcs
PT+10030K	wire marker, cross - sectional area 1.5-4.0 mm^2 length 30 mm	500 pcs
PT+20015A	wire marker, cross - sectional area 2.5-16.0 mm^2 length 15 mm	100 pcs
PT+20021A	wire marker, cross - sectional area 2.5-16.0 mm^2 length 21 mm	100 pcs
PT+20030K	wire marker, cross - sectional area 2.5-16.0 mm^2 length 30 mm	200 pcs
PT+30015A	wire marker, cross - sectional area 16.0–75.0 mm^2 length 15 mm	50 pcs
PT+30021A	wire marker, cross - sectional area 16.0–75.0 mm^2 length 21 mm	50 pcs
PT+30030K	wire marker, cross - sectional area 16.0–75.0 mm^2 length 30 mm	200 pcs
MARKERS PTC		
PTC10015AN*	wire marker, diameter 2.4-3.0 mm length 15 mm	200 pcs
PTC10021AN*	wire marker, diameter 2.4-3.0 mm length 21 mm	200 pcs
PTC10030AN*	wire marker, diameter 2.4-3.0 mm length 30 mm	200 pcs
PTC20015AN*	wire marker, diameter 3.0-4.0 mm length 15 mm	200 pcs
PTC20021AN*	wire marker, diameter 3.0-4.0 mm length 21 mm	200 pcs
PTC20030AN*	wire marker, diameter 3.0-4.0 mm length 30 mm	200 pcs
PTC30015AN*	wire marker, diameter 4.0-5.0 mm length 15 mm	200 pcs
PTC30021AN*	wire marker, diameter 4.0-5.0 mm length 21 mm	200 pcs
PTC30030AN*	wire marker, diameter 4.0-5.0 mm length 30 mm	200 pcs
PTC40015AN*	wire marker, diameter 5.0-6.2 mm length 15 mm	100 pcs
PTC40021AN*	wire marker, diameter 5.0-6.2 mm length 21 mm	100 pcs

* - COLOUR (4-yellow , 9-white)

ARTICLE NUMBER	DESCRIPTION	PACKAGING
PTC40030A	wire marker, diameter 5.0-6.2 mm length 30 mm	100 pcs
PTC40030AN*	wire marker, diameter 5.0-6.2 mm length 30 mm	100 pcs
PTC50015AN*	wire marker, diameter 6.0-7.2 mm length 15 mm	100 pcs
PTC50021AN*	wire marker, diameter 6.0-7.2 mm length 21 mm	100 pcs
PTC50030AN*	wire marker, diameter 6.0-7.2 mm length 30 mm	100 pcs

CABLE MARKERS

PO/PKZ PROFILE		
PO-068TWSN*	profile PO-068TW to be mounted on POH or PKH holder	4.5 m
PO-068TWDN*	profile PO-068TW to be mounted on POH or PKH holder	25 m
PO-068TWBN*	profile PO-068 to be mounted on POH or PKH holder	50 m
PO-068QDN*	PO-068Q profile, mounted with cable ties	25 m
PO-06Q10SN	PO-06Q profile, mounted with cable ties	3,5 m
PO-06Q10DN*	PO-06Q profile, mounted with cable ties	40 m
PKZ20DN4	PKZ20 profile, ZEREX, mounted with POH or PKH holder	20 m
PKZ20Q10DN4	PKZ20Q10 profil, ZEREX, mounted with cable ties	20 m

MARKERS PM		
PM-10033AN	cable marker, length 33 mm and height 5 mm	100 pcs
PM-20033AN	cable marker, length 33 mm and height 10 mm	100 pcs
PM-20066AN	cable marker, length 66 mm and height 10 mm	50 pcs
PM-24066AN	cable marker, length 66 mm and height 12.5 mm	50 pcs
PM-24QKNT	profile PM-24 punched 10 mm	20 m

* - COLOUR (4 -yellow , 9-white)

ARTICLE NUMBER	DESCRIPTION	PACKAGING
MARKERS PTM		
PTM10023K	cable marker, length 23 mm and height 6 mm	500 pcs
PTM10030K	cable marker, length 30 mm and height 6 mm	500 pcs
PTM20020K	cable marker, length 20 mm and height 11 mm	500 pcs
CARRIER STRIPS POH		
POH07060AA0	carrier strips 60 mm	100 pcs
POH12082AA0	carrier strips 82 mm	100 pcs
POH18110AA0	carrier strips 110 mm	100 pcs
POH30152AA0	carrier strips 152 mm	100 pcs
CARRIER STRIPS PKH		
PKH070	carrier strip 70 mm	100 pcs
PKH070POL	carrier strip 70 mm (halogen free)	100 pcs
PKH110POL	carrier strip 110 mm (halogen free)	100 pcs
CABLE TIES PKB		
PKB25100A*	cable ties 100 x 2.5 mm white/black	100 pcs
PKB36140A*	cable ties 140 x 3.6 mm white/black	100 pcs
PKB25200A*	cable ties 200 x 2.5 mm white/black	100 pcs
PKB36200A*	cable ties 200 x 3.6 mm white/black	100 pcs
PKB28300A*	cable ties 300 x 2.8 mm white/black	100 pcs
PKB36300A*	cable ties 300 x 3.6 mm white/black	100 pcs

* - COLOUR (4-yellow , 9-white)

ARTICLE NUMBER	DESCRIPTION	PACKAGING

COMPONENT MARKERS

ARTICLE NUMBER	DESCRIPTION	PACKAGING
TAPE CASSETTES		
T1000-PLO60CN*	label 6 mm x 30 m	3 pcs
T1000-PLO90CN*	label 9 mm x 30 m	3 pcs
T1000-PL120CN*	label 12 mm x 30 m	3 pcs
T1000-PLO60CN8	label 6 mm x 27 m silver	3 pcs
T1000-PLO90CN8	label 9 mm x 27 m silver	3 pcs
T1000-PL120CN8	label 12 mm x 27 m silver	3 pcs
T1000-PLL		
T1000-PLL33CN9	self - laminating label 33 mm x 8 m white	3 pcs
PROFILE PP+		DN / SN
PP+06300^*	profile 6.3 mm for Phoenix Contact terminals white	40 m / 17 m
PP+10000^*	PP+ profile H = 10.2 mm, for ABB (Entrelec) terminal blocks	40 m / 17 m
PP+11000^*	profile 11.0 mm for Wago (Topjobs) terminals white	40 m / 17 m
PPA+ SELFADHESIVE PROFILE		
PPA+09000SN*	profile for component marking 9 mm	10 m
PPA+09000DN*	profile for component marking 9 mm	25 m
BACKPLATE MARKING SYSTEM		
PS-20018AT	transparent holder 17.5 mm	20 pcs
PS-20035AT	transparent holder 35.0 mm	20 pcs
PS-20053AT	transparent holder 52.5 mm	20 pcs
PS-20BPV	base profile with adhesive	10 m

* - COLOUR (4-yellow , 9-white);
^ - PACKAGING (D = DN-reel, S = SN-reel)

NEW LINE OF PACKAGING
✕✕✕®PROMARK™

SO LOOKS ORIGINAL

PROMARK-PL/PLL

✕✕✕®PROMARK™
CABLE ID PRINTER

PROMARK-RB

SEL...
ETYKIE
ÉTIQUET
ETIQUE

✕✕✕®PROMARK™
CABLE ID PRINTER

INK RIBBON CASSETTE
TAŚMA BARWIĄCA | FÄRGBAND | FARBBAND
RUBAN | CINTA DE TINTA | FITA DE TINTA
BARVÍCÍ PÁSKA | КРАСЯЩАЯ ЛЕНТА

PROMARK PL
LABEL TAPE
12mm
Set the cassette with 5-7mm
✕✕✕ PARTEX
MARKING SYSTEMS
MADE IN
JAPAN

Contact us and order your brand
new ProMark T1000 machine.

Partex Marking Systems

At Partex, we lead the world in industrial marking systems. We develop and manufacture products for the identification of wires, cables, pipes and components. From the individual electrician to the world's largest companies, our unique marking systems contribute towards increased efficiency and higher safety levels.

Quality and an environmental approach are natural parts of Partex's business and accordingly we are certificated to the ISO 9001, ISO 14001 and IRIS.

ISO 9001 ISO 14001 BUREAU VERITAS Certification

IRIS BUREAU VERITAS Certification

Marking Methods
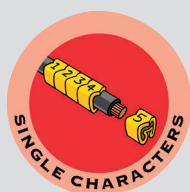
SINGLE CHARACTERS

Consists of single character markers that can be combined with each other to give total marking flexibility.

MULTI CHARACTERS

Allows you to order markers already printed with the complete information in accordance with your specification.

DO-IT-YOURSELF

Allows you to produce your own markers on site.

Material

PVC
PVC stands for polyvinyl chloride, and it contains halogens. PVC has a natural flame decreasing property. It has a long life span and is sufficiently resistant to climatic factors. The material is strong and flexible. The temperatures range is −30°C to +60°C (−22°F to 140°F).
ExempleS of products PA, PC, PK, PO, PY, PT+, PM etc.

ZEREX – Halogen free
Polyether-based thermoplastic, a compound of polyurethane (tpu). Zerex is a halogen free flame proof extrusion compound developed for applications requiring limited smoke and toxin generation. The temperature range is −30°C to +90°C (−22°F to +194°F). It has been approved for use in the subway systems of New York. Product with a Z is halogen free, such as PAZ, PKZ, POZ, PTZ etc.

Directives

RoHS
The RoHS Directive aims to reduce the risks to human health and the environment by replacing and restricting hazardous chemical substances in electric and electronic equipment. The Directive also aims to improve the prospects of cost-effective and sustainable recycling of material waste from electronic and electronic equipment.

RoHS = Restriction of the use of certain Hazardous Substances in electrical and electronic equipment.

http://eur-lex.europa.eu/

REACH
Regulation (EU) No 907/2006 concerns the registration, evaluation, authorisation and restriction of chemical substances. It also contains requirements addressed to the users of chemicals, unlike previous legislation.

REACH = Registration, Evaluation, Authorisation and restriction of Chemicals.

http://eur-lex.europa.eu/

Packaging options

Reel
Semi cut markers

Unsorted
Standard number sequences
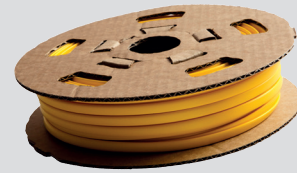
Carton
Marker strips

Compacta disc
Semi cut markers /
Continuous marker profile
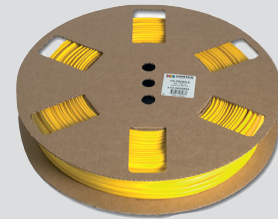
Sorted
To suit customer
requirements

DN-reel
Continuous profile

Strip pack
Cut / loose markers

Paginated
Standard number sequences

Reel
Continuous marker profile

Single bag
Marker strips

Box
Continuous profile
High quantity

Mini box
Heat shrinkable tubing

PA/PAZ/PY - CLOSED COMBINATION MARKER

- Permanent grip and adjustable sleeve, spring-action bellows.
- Chevron cut for twist protection.
- PA is available in Halogen free material (ZEREX).
- A-Z, 0-9 in yellow or white with black print as standard.
  0-9 in international colour code. Special colours on request.

Type	Diameter mm	Area mm^2	AWG	Length mm	No. of characters	Marker height mm	Marker width mm	Text height mm	STRIP PACK Cut/loose markers	SINGLE BAG Marker strips	REEL Semi cut markers	COMPACTA DISC Semi cut markers
PY-01	1.0 - 2.0	~0.2 - 0.7	~24-19	3	1	3.3	3.5	2.6	5 x 200 pcs	-	1000 pcs	-
PA-02/PAZ02	1.3 - 3.0	~0.2 - 1.5	~22-16	3	1	3.6	3.5	2.6	5 x 200 pcs	250 pcs	1000 pcs	500 pcs
PA-1/PAZ1	2.5 - 5.0	~1.5 - 4.0	~16-11	3	1	5.5	4.2	2.6	5 x 200 pcs	250 pcs	1000 pcs	500 pcs
PA-2/PAZ2	4.0 - 10.0	~2.5 - 16.0	~13-5	4	1	9.5	6.6	4.0	5 x 100 pcs	250 pcs	-	250 pcs
PA-3/PAZ3	8.0 - 16.0	~16.0 - 70.0	~5-	6	1	16.5	11.0	4.0	5 x 20 pcs	-	-	-

AWG and mm^2 sizes for guidance only

MD/MDH - INSTALLATION TOOL AND HOLDER FOR PA MARKERS
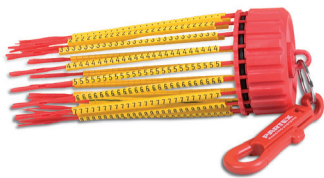
- The MD / MDH form a complete installation kit for PA02 and PA1 markers.
- An excellent aid for production, installation or maintenance work.
- The holder is easily loaded with the refill applicators.

Type	Holder and applicator with standard kit	Empty holder	Empty applicators	Applicator with standard kit	Applicator with colour code	Applicator with 3-Phase marking kit
PA-02 (Red)	MDH2002S	MDH2002	MD-02	MD-02S	MD-02SCC.09	-
PA-1 (Blue)	MDH2010S	MDH2010	MD-10	MD-10S	MD-10SCC.09	MD-10FMS

CAS/PAM CASSETTES AND PAD/PAV INSTALLATION TOOLS
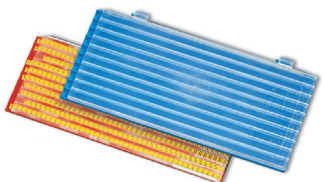
- Flexible aid for service and maintenance marking.
- Pocket size – easy to take along.
- CAS: Double-sided for right and left-mounting.

Cassettes ->	CAS-600	CAS-500	PAM-02	PAM-10
Designed for	PA-02	PA-1	PA-02	PA-1
Cassette colour	Red	Blue	Red	Blue
Max number of sleeves	600 pcs	500 pcs	440 pcs	440 pcs

Tools ->	PAD-3M	PAD-3T	PAD-4M	PAD-4T	PAD-5M	PAD-5T	PAV-02M	PAV-10M
Designed for	PA-02	PA-02	PA-1	PA-1	PA-1	PA-1	PA-02	PA-1
Material	Stainless steel	Teflon coated	Stainless steel	Teflon coated	Stainless steel	Teflon coated	Stainless steel	Stainless steel

SRP/SRC - STORAGE BOX

SRP
- Robust steel plate storage box for Partex compacta discs.
- Detachable upper tray for cable accessories.

SRC
- A cardboard storage box for Partex compacta discs.

PC - OPEN CLIP-ON COMBINATION MARKER

- Open marker sleeve for already connected wires.
- Simple "clip-on mounting" for secure, highly legible identification.
- Twist-protected for secure combination marking.
- Yellow or white with black print as standard.
  0-9 in international colour code. Special colours on request.

PC

Type	Diameter mm	Area mm²	AWG	Length mm	No. of characters	Marker height mm	Marker width mm	Text height mm	STRIP PACK Cut/loose markers or strips
PC-10	2.4 - 3.0	~0.4 - 1.5	~22 - 16	3	1	3.6	3.7	2.6	5 x 200 pcs
PC-20	3.0 - 4.0	~1.5 - 3.0	~16 - 12	3	1	4.2	4.5	2.6	5 x 200 pcs
PC-30	4.0 - 5.0	~3.0 - 4.0	~12 - 11	3	1	9.5	5.7	2.6	5 x 200 pcs
PC-40	5.0 - 6.2	~4.0 - 5.0	~11 - 10	4	1	16.5	6.9	4.0	5 x 200 pcs

AWG and mm² sizes for guidance only

PCA - CLIP-ON COMBINATION MARKER WITH LOCKING FUNCTION

- Open combination marking with locking function for already connected wires.
- Halogen free polyamide 6.6.
- Yellow or white with black print as standard.
  0-9 in international colour code. Special colours and prints on request.

PCA

Type	Diameter mm	Area mm²	AWG	Length mm	No. of characters	Marker height mm	Marker width mm	Text height mm	BAG Marker strips
PCA10	2.2 - 3.6	~0.5 - 2.5	~20 - 14	4	1	9	5	3	10 strips x 32 pcs
PCA20	3.6 - 6.0	~2.5 - 6.0	~14 -10	4	1	13	5	3	10 strips x 32 pcs

AWG and mm² sizes for guidance only

## PK/PKZ/POK - COMBINATION CABLE MARKER

PK / POK
- Easy mounted onto PKH/POH holders to fit any size of cable, tube or pipe.
- Yellow or white with black print as standard.
  0-9 in international colour code. Special colours on request.
- PK is available in Halogen free material (ZEREX).

PKH / POH
- Holders, easily mounted with cable ties

Type	Diameter mm	Length mm	Number of characters	Marker height mm	Marker width mm	Text height mm	STRIP PACK Cut/loose markers	COMPACTA DISC Semi cut markers
PK-2	-	4	1	-	11.3	4.0	5 x 100 pcs	500 pcs
PKZ	-	4	1	-	11.3	3.2	5 x 100 pcs	500 pcs
POK10	5.0 - 6.5	4	1	4.3	11.3	-	-	500 pcs

PKH

POH
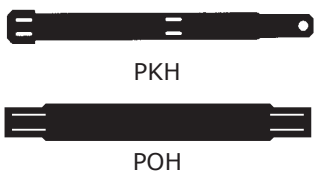
PKH / POH Marker holder ->	PKH070	PKH070POL*	PKH110POL*	POH07*	POH12*	POH18	POH30
Maximum number of POK	10	10	20	7	12	18	30
Maximum number of PK 2/4	10	10	20	8	13	19	30
Maximum number of PKZ 2/6	-	7	13	5	9	13	20
Number per pack (Bag):	100 pcs	100 pcs	100 pcs	100 pcs	100 pcs	100 pcs	100 pcs

*PKH070POL, PKH110POL, POH07 and POH12 are made in outdoor grade halogen free, black Polyamide 6.6.
The other holders are made in hard PVC.

PKS - STAINLESS STEEL CABLE MARKER

- Stainless steel markers and cable ties for aggressive environments.
- Available both as single character markers and customized markers.
- Holders are available with slits or with holes.

Type	Description	Length x Widht mm	Slit /Hole width mm	Max number of single characters	Packaging
PKS10040	Holder	10,3 x 47,0	4,8	6	50 pcs/bag
PKS10060	Holder	10,3 x 65,0	4,8	9	50 pcs/bag
PKS10080	Holder	10,3 x 87,0	4,8	13	50 pcs/bag
PKS10100	Holder	10,3 x 109,0	4,8	17	50 pcs/bag
PKS10120	Holder	10,3 x 128,0	4,8	20	50 pcs/bag

Type	Description
PKS10006PP.#	Strips of characters. # = A-Z, 0-9 etc.
PKS10GR100	**Compartment storage box, marker set 1:** 5 marker strips at 10 markers of each of the following characters: 0 1 2 3 4 5 6 7 8 9 + - ~ = EARTH / . : and blank. Holder PKS1OO4OFQS (5O pcs), PKS 1OO6OFQS (50 pcs) and PKS1O12OFQS (50 pcs) and cable ties (1OO pcs).
PKS10GR200	**Compartment storage box, marker set 2**: 5 marker strips at 10 markers of each of the following characters: A B C D E F G H J K L M N O P Q R S T U V W X Y Z Å Ä Ö Ü (and blank.
PSK55000-PKS	**Compartment storage box:** 50 of each of the following character: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z, 0 1 2 3 4 5 6 7 8 9, /, GRD, +, -. cable ties (300 pcs), holders PKS10060FQS (50 pcs) and holders PKS10100FQS (100 pcs).
Stainless cable ties	Available in lengths of 150/200/360 mm. Width: 4.6 mm.
PKS10MT	Manual tie fixing tool
PKS10GS4MT	Automatic tie fixing tool

PM - TRANSPARENT CABLE MARKER HOLDER

- Transparent holder for marker tags PF, PFC and PP+ profile.
- Mounted with cable ties.

Type	Punched profile	Length mm	Width mm	Width of punched hole mm	Packaging
PM-10	No	33	6.0	3.0	100 pcs
PM-20	No	33/45/66	11.3	3.0	100/50 pcs depending on marker size
PM-24	No	33/66	13.9	3.9	100/50 pcs depending on marker size
PM-20Q	Yes	20 m	11.3	3.0	DN reel
PM-24Q	Yes	20 m	13.9	3.9	DN reel

PTC - CLIP-ON CABLE MARKER HOLDER

- Open marker sleeve with label pocket for snap-on mounting on cables and wires. Suits PF, PFC and PP+.
- Simply clip-on for secure, highly legible identification.

Type	Pocket width mm	Diameter mm	Area mm^2	AWG	Sleeve lengths mm	Loose, cut sleeve in bag
PTC10	4.2	2.4 - 3.0	~0.4 - 1.5	~22 - 16	15/21/30	200 pcs
PTC20	4.2	3.0 - 4.0	~1.5 - 3.0	~16 - 12	15/21/30	200 pcs
PTC30	4.2	4.0 - 5.0	~3.0 - 4.0	~12 - 11	15/21/30	200 pcs
PTC40	4.2	5.0 - 6.2	~4.0 - 5.0	~11 - 10	15/21/30	100 pcs
PTC50	4.2	6.2 - 7.2	~5.0 - 6.0	~10 - 7	15/21/30	100 pcs

AWG and mm^2 sizes for guidance only

PTC

PT+/PT+PFC/PTZ+/PTM - CABLE MARKER HOLDER

- PT+   Transparent sleeve with pocket for marker tag PF, PFC042 and PP+.
- PT+PFC Transparent sleeve with pocket for marker tag PFC.
- PTZ+   Coloured sleeve with transparent pocket for PF, PFC and PP+ profile.
- PTM   Transparent sleeve with wings for marker tag PFC and PP+ profile.

PT+/PT+PFC

PT+ TRANSPARENT SLEEVE WITH TRANSPARENT POCKET

Type	Diameter mm	Area mm^2	AWG	Sleeve length mm	Loose, sleeves in bag	Suitable tags
PT+02	1.3 - 3.0	~0.25 - 1.5	~22 - 16	12/15/18/21/30	200 pcs	PF, PP+
PT+10	2.5 - 5.0	~1.5 - 4.0	~16 - 11	12/15/18/21/30	200 pcs	PF, PP+
PT+20	4.0 - 10.0	~2.5 - 16.0	~13 - 4	12/15/18/21/30	100 pcs	PF, PP+, PFC
PT+30	8.0 - 16.0	~16.0 - 75.0	~6 - 2/0-3/0	12/15/18/21/30	50 pcs	PF, PP+, PFC
PT+40	14.0 - 22.0	~50.0 - 150.0	~0 - 4/0-5/0	15/21/30	50 pcs	PP+, PFC

PT+PFC 02/10 TRANSPARENT SLEEVE WITH TRANSPARENT POCKET FOR PFC

Type	Diameter mm	Area mm^2	AWG	Sleeve length mm	Loose, sleeves in bag	Suitable tags
PT+PFC02	1.3 - 3.0	~0.25 - 1.5	~22 - 16	12/15/18/21/30	200 pcs	PFC
PT+PFC10	2.5 - 5.0	~1.5 - 4.0	~16 - 11	12/15/18/21/30	200 pcs	PFC

PTZ+

PTZ+ COLOURED SLEEVE WITH TRANSPARENT POCKET

Type	Diameter mm	Area mm^2	AWG	Sleeve length mm	Loose, sleeves in bag	Suitable tags
PTZ+02	1.3 - 3.0	~0.25 - 1.5	~22 - 16	12/15/18/21/30	200 pcs	PF, PTC, POZ
PTZ+10	2.5 - 5.0	~1.5 - 4.0	~16 - 11	12/15/18/21/30	200 pcs	PF, PTC, POZ
PTZ+20	4.0 - 10.0	~2.5 - 16.0	~13 - 4	12/15/18/21/30	100 pcs	PF, PTC, POZ
PTZ+30	8.0 - 16.0	~16.0 - 75.0	~6 - 2/0-3/0	12/15/18/21/30	50 pcs	PF, PTC, POZ

AWG and mm² sizes for guidance only

PTM

PTM TRANSPARENT SLEEVE WITH WINGS

Type	Sleeve length mm	Loose, sleeves in carton box	Suitable tags
PTM10	23/30	500 pcs	PP+, PFC
PTM20	20	500 pcs	PFC

PFC CARDS

- PFC marker tags in halogen free material. Available in white or yellow.
- Printing in card thermal transfer printer, fits PT+, PT+PFC, PTC, PTM and PM.

Type	Description	Marker tag length mm	Marker tag height mm
PFC042	Marker tag for cable marker	12 / 15 / 18 / 21 / 30	4.2
PFC07533	Marker tag for cable marker	33	7.5
PFC09518	Marker tag for cable or component marking	17.5	9.5
PFC095	Marker tag for cable marker	40 / 80	9.5
PFC07014	Marker tag for component marking	14	7.0
PFC12726	Marker tag for component marking	25.4	12.7
PFC45080	Marker tag for component marking	80	45.0

PF - MARKER TAGS FOR TRANSPARENT HOLDER

- PF marker tags are made of semi-rigid, halogen free, polyester foil in A4 size.
- Fits PT+, PTZ+, PTC, PM and PS transparent holders.

Type	Witdh mm	Length mm	Number of labels per sheet	Number of sheets per pack	Description
PF-10015	4.6	15.0	792	10	Yellow or White
PF-10021	4.6	21.0	594	10	Yellow or White
PF-20018	9.5	17.5	352	10	Yellow or White
PF-07533	7.6 - 7.8	33.0	100	10	White
PFA20018	9.5	17.5	352	10	Yellow or White with adhesive

PP+/PPA+ PROFILE

PP+
- Flat hard marker tag profile for PT+, PTC, PTM and PM etc.
- Developed for easy printing on site in the ProMark system.

PPA+
- Flat hard profile with adhesive tape for component marking.

Type	Description	Compacta disc width mm	Compacta disc length m	DN-Reel length m
PP+profile	Flat hard profile	4.6 / 6.3 / 9.0 / 10.2 / 11.0	17	50
PPA+profile	Flat hard profile, adhesive	9.0	10	25

PS - CABINET AND COMPONENT MARKING

- PS is a universal system for marking of control panels and components.
- PS is available as pre-printed markers and as production on site.
- 1 module = 17.5 mm.

Type	Description	Module length	Qty pack
PS-20 *	White marker with black text or transparent modules	1/3 , 1/2 , 1 , 1 1/2 , 2 , 3	20/50 pcs[1]

* = Desired character, (A, B, C, 1, 2, 3 etc.)
* = Strips of 12-number sequenses, 1-12, 13-24, 25-36, 37-48, 49-60, 61-72, 73-84, 85-96, 97-100
1 = 20 Letters or 50 Numbers.

Type	Description	White	Transparant	Length mm	Width mm	Qty pack
PS-20000	PS profile. Neutral, no text	PS-20000K9	PS-20000KT	1000	12.9	10x1m

Type	Description	White	Black	Length mm	Width mm	Qty pack
PS-20BP	Base profile with adhesive	PS-20BPV	PS-20BPS	1000	11.6	10x1m

Type	Description	Diameter mm	Max. thickness of installation surface mm	Qty pack
PS-R6	Plastic rivet for fixing base profile rail	3.0	0.5 - 1.5	100 pcs
PS-R7	Plastic rivet for fixing base profile rail	3.0	1.5 - 2.5	100 pcs

TX - TERMINAL BLOCK MARKING
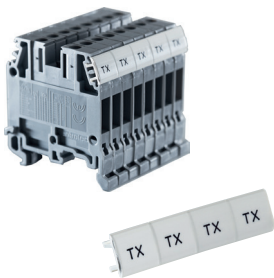
- TX terminal block markers fit most common terminal blocks.
- TX is available in pre-printed, customized and for production on site.

Type	TX marker lengths mm	TX marker width mm	TX marker height mm	Strips/bag
TX-96	5.0 / 5.2 / 6.0 / 6.2 / 7.3 / 8.0 / 8.2 / 10.0 / 10.2 / 12.0 / 14.1 / 15.1	9.6	4.0	10 strips
TX-61	5.1 / 6.1	6.1	2.8	10 strips

PPQ - CABLE MARKER

- Avaliable both pre-printed and as blank profile for print on site with for example MK10 / MK10-DH.
- Colours are white and yellow.
- Easy mounted with a cable tie to fit any size of cable, tube or pipe.

Type	Length mm	Width mm	DN-reel
PPQ10	40 / 60 / 80	10	20 m
PPQ19	40 / 60 / 80	19	20 m
PPQ38	60 / 80 / 100	38	20 m

PO/POZ PROFILE

- Very fast, one hand mounting onto cable or wire.
- POZ: Halogen free material.
- Standard colours are yellow and white. Other colours on request.

Type	Diameter mm		Area mm²	AWG	Compacta disc	DN-reel	Reel PO	Box PO	POZ
	min	max							
PO-01 / POZ01	1.3	1.8	~0.25	~23-20	6.0 m	60 m	250 m	-	250 m
PO02 / POZ02	1.7	2.2	~0.5	~20-18	5.0 m	60 m	250 m	-	250 m
PO-03 / POZ03	2.0	2.5	~0.75	~18-17	4.5 m	50 m	250 m	-	250 m
PO-04 / POZ04	2.2	2.8	~1.0	~17-15	4.5 m	50 m	200 m	-	200 m
PO-05 / POZ05	2.7	3.5	~1.5	~15-13	4.0 m	40 m	200 m	-	200 m
PO-06 / POZ06	3.2	4.0	~2.5	~13-11	3.5 m	40 m	200 m	-	200 m
PO-06Q10*	-	-	-	-	3.5 m	40 m	-	100 m	-
PO-068TW	6.8	7.0	-	-	4.5 m	25 m	50 m	-	-
PO-O68Q*	-	-	-	-	-	25 m	50 m	-	-
PO-07 / POZ07	3.8	4.7	~4.0	~11-9	3.5 m	30 m	100 m	-	100 m
PO-08 / POZ08	4.6	5.5	~6.0	~9-7	3 m	30 m	100 m	-	100 m
PO-09 / POZ09	5.6	7.0	~10.0	~7-5	-	-	50 m	-	50 m
PO-10 / POZ10	6.5	8.0	~16.0	~5-3	-	-	50 m	-	50 m
PO-11 / POZ11	7.0	9.5	~18.0	~4-3	-	-	50 m	-	-
PO-12 / POZ12	7.5	10.0	~20.0	~4-2	-	-	-	5x10 m	5x10 m
PO-14 / POZ14	9.5	12.0	~25.0	~1/0	-	-	-	5x10 m	5x10 m
PO-16 / POZ16	11.5	14.0	~35.0	~1/0-2/0	-	-	-	2x5 m	2x5 m
PO-18 / POZ18	13.5	16.0	~50.0	~2/0-3/0	-	-	-	2x5 m	2x5 m
PO-20 / POZ20	15.5	18.0	~70.0	~3/0-4/0	-	-	-	2x5 m	2x5 m
PO-22 / POZ22	17.5	20.0	~95.0	~4/0	-	-	-	2x5 m	2x5 m
PO-24 / POZ24	19.5	22.0	~120.0	~4/0-5/0	-	-	-	2x5 m	2x5 m
PO-26 / POZ26	21.5	24.0	~150.0	~5/0-6/0	-	-	-	2x5 m	2x5 m
PO-28 / POZ28	24.0	28.0	~185.0	~6/0-7/0	-	-	-	2x5 m	2x5 m

* = Pre-punched profile to be mounted with calbe ties

AWG and mm² sizes for guidance only

PHZ/PHZF - HEAT SHRINK TUBING FOR PRINTING

- Flexible halogen free heat shrink tubing for marking on site.
- 2:1 shrink ratio.
- Shrink temperature > 90°C.
- Working temperature -30°C to +105°C.
- Standard colour yellow and white. Other colours on request.

Type	Diameter mm		Diameter inches		Mini box	Reel
	Before	Shrinked	Before	Shrinked		
PHZ/PHZF20024	2.4	1.2	3/32	3/64	-	100 m
PHZ/PHZF20032	3.2	1.6	1/8	1/16	15 m	100 m
PHZ/PHZF20048	4.8	2.4	3/16	3/32	12 m	100 m
PHZ/PHZF20064	6.4	3.2	1/4	1/8	12 m	75 m
PHZ/PHZF20095	9.5	4.7	3/8	3/16	-	75 m
PHZ/PHZF20127	12.7	6.4	1/2	1/4	-	50 m
PHZ/PHZF20190	19.1	9.5	3/4	3/8	-	25 m
PHZ/PHZF20254	25.4	12.7	1	1/2	-	25 m
PHZ/PHZF20381	38.1	19.1	1.1/2	3/4	-	25 m
PHZ/PHZF20510	50.8	25.4	2	1	-	25 m

PAG - standard multi character

- Sequence, paginated or same marking characters on reels

Examples
- 2 paginated 20 number sequences: 060-079 (060, 060, 061, 61...079, 079)
- Same number: 27 (27, 27, 27, 27 etc.)

Type	Diameter mm	Area mm²	AWG	2 characters, sleeve length mm	3 characters, sleeve length mm	4 characters, sleeve length mm
PA-02	1.3-3.0	~0.2-1.5	~22-16	6	9	12
PA-1	2.5-5.0	~1.5-4.0	~16-11	6	9	12
PA-2	4.0-10.0	~2.5-16.0	~13-5	6	9	12
PC-10	2.4-3.0	~0.4-1.5	~22-16	6	9	12
PC-20	3.0-4.0	~1.5-3.0	~16-12	6	9	12

Compartment storage box

- Available in 5 different models; PA1, PA2, PA02, PK2, PKS
- Transparent lid for perfect overview
- Easy to refill with Partex standard products

Type	Description
PSK55000 - PA1	49 removable compartments containing PA1 markers: A-Z, 0-9, - /, GRD, +, -, Blank, L1, L2, L3, N, Teflon-coated installation tool in stainless steel
PSK55000 - PA2	50 removable compartments containing PA2 markers: A-Z, 0-9, - /, GRD, +, -, Blank, L1, L2, L3, N
PSK55000 - PA02	49 removable compartments containing PA02 markers and installation tools: A-Z, 0-9, - /, GRD, +, -, Blank, L1, L2, L3, N, Teflon-coated installation tool in stainless steel
PSK55000 - PK2	40 removable compartments containing PK2 markers, holders and cable ties: A-Z, 0-9, /, GRD, +, -, POH07 holders, POH12 holders, PKB25100A9 cable ties, PKB25100A0 cable ties
PSK55000 - PKS	40 removable compartments containing PKS markers, holders and cable ties: A-Z, 0-9, /, GRD, +, -, cable ties PKS46150AN16, holders PKS10060FQS, holders PKS10100FQS

SP/SPZ - spiral tubing
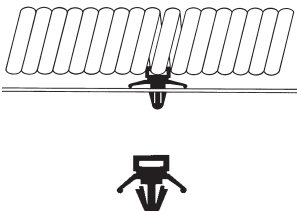
- Spiral tube for fitting of cables, conductors, tubes, wire bundles etc.
- Excellent protection against mechanical wear.
- SPZ: Halogen free material.

Type	Available as Halogen free	Internal diameter, mm	Internal diameter, inch	Box	Pack unit
SP-08100	No	8	.315	100 x 1m	1m
SP-10100	Yes	10	.394	60 x 1m	1m
SP-15100	Yes	15	.590	40 x 1m	1m
SP-20100	Yes	20	.787	40 x 1m	1m
SP-25100	Yes	25	.984	30 x 1m	1m
SP-30100	Yes	30	1.181	20 x 1m	1m
SP-40100	Yes	40 / 42	1.575 / 1.654	10 x 1m	1m
SP-50100	No	50	1.968	4 x 1m	1m

SPH-1

Snap-into fastener of spiral tube in holed mounting plates. 100 pcs in one bag

Cable ties

- Self-locking with high firmness
- Shaped end for easier insertion though the cable tie head
- Available for indoor and outdoor installation

Type	Description
Stainless Steel	Stainless steel cable ties for tough environments. Available in both uncoated and pure polyester coated 316 grade stainless steel.
Standard	Cable ties of high quality Nylon 6.6.
UV resistant	Ultra-violet resistant cable ties, specially manufactured with extra carbon added.
Metal detectable	A blue nylon cable tie with metal content spread throughout the material. Detectable by standard metal detectors. For the e.g. food-, pharmaceutical- and chemical industries.
Metal barbed	A smooth cable tie with a stainless steel "barbed tooth" providing higher flexibility and higher strength for demanding environments
Accessories	Cable fixings, cable tie bases, mounts and tools.

PLS - partex label system
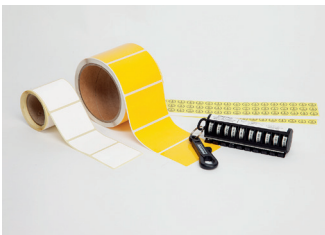
- Labels for cable and component marking.
- Available for indoor and outdoor use.
- Print your own labels with laser- or thermal transfer printer.

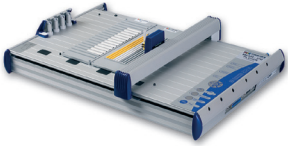| Type	Description
PLL	Adhesive labels in polyester for laser printer. Colours: Yellow, white, silver.
PLT	Adhesive labels in polyester on roll for thermal transfer printer. Colours: Yellow, white, silver.
PLB	Pre-printed labels with standard symbols, numbers and letter. Colours: Yellow.
PLD	Dispenser with pre-printed labels (rolls). Colours: Yellow, white.

ProSleeve

- Series of high-specification heat shrink, cable marker and panel label system in ladder format.
- Developed to meet a specific demand; such as fire safety, high temperature, military standards etc.
- Pre-printed or to be printed on site with a thermal transfer printer.

CABLE MARKERS

PANEL LABELS

HEAT SHRINK TUBE

	Type	Description
CABLE MARKERS	CMZ	ZERO HALOGEN. Cable marker made of zero halogen, crosslinked UV stabilised polyolefin with low toxicity.
	CML	EXTENDED FIRE SPECIFICATION. Cable marker made of zero halogen, crosslinked UV stabilised polyolefin with low toxicity. London underground approved.
	CMT	EXTREME TEMPERATURE. High temperature rated, flexible, highly flame retardant, polyvinylidene fluoride printable cable markers. Excellent chemical and mechanical properties.
	CMD	DIESEL SPECIFICATION. CMD meets printing and fluid resistance standards of SNCF NF F 00-608 type H, SAE-AS5942, as well as MIL-STD-202 Method 215K and SAE-AMS-DTL-23053-6 class 1 standards.
	CMM	MILITARY GRADE. CMM meets printing and fluid resistance standards of NF F 00-608 type H, SAE-AS5942, as well as MIL-STD-202 Method 215K and SAE-AMS-DTL-23053-6 class 1 standards.
PANEL LABELS	EPL	ENHANCED PANEL LABELS. Innovative labels specifically designed to replace engraved and plotted plates.
	EPF	ENHANCED PANEL LABELS LOW FIRE HAZARD. EPF are made of low fire hazard zero halogen, self extinguishing, crosslinked UV stabilised polyolefin with low toxicity. It is mostly used for mass transit and underground applications
HEAT SHRINK TUBE	SG	STANDARD GRADE. Flame retardant UL224 VW-1 Flammability. Self extinguishing. Shrink Ratio 2:1
	HF	HALOGEN FREE. Low smoke, flame retardant heat shrinkable tubing. Shrink Ratio 2:1
	MS	MILITARY SPECIFICATION. Very flexible, high temperature rated, highly flame retardant, UL and CSA recognised heat shrinkable tubing. Shrink Ratio 3:1
	NF	NF DIESEL SPECIFICATION. Diesel resistant sleeve meet the material and physical property requirements of SEA-AMS-DTL-23053-6 Class 1. Shrink Ratio 3:1
	ET	EXTREME TEMPERATURE PERFORMANCE. High temperature rated, flexible, highly flame retardant, polyvinylidene fluoride printable sleeves. Excellent chemical and mechanical properties with low friction surface. Shrink Ratio 2:1
	EF	EXTENDED FIRE SPECIFICATION. Flame retardant, zero halogen, low smoke, low toxicity cross linked UV stabilised and printable polyolefin. Meets London Underground Limited Standard 1-085. Shrink Ratio 2:1

MK500 - PLOTTER

- Provides complete multi character marking for cables, wires, terminal blocks and components.
- Prints on PA+, PC, PK, POH, PFC, TX, and PS products.

THE BASIC MK500 KIT INCLUDES
Plotter MK500
Software PMS
Printer Cable

DESCRIPTION
Print: Plotter pens with etching ink
Speed: 5 to 40 mm/s
PC connection: USB or RS232
Profile types: Pre-cut profiles

MOCA - THERMAL TRANSFER PRINTER

- Complete marking system for cable, wires and components.
- Thermal transfer printing onto Partex PFC cards.
- Windows based printer controlled by Partex software WinSign.

THE BASIC MOCA KIT INCLUDES:
MOCA card printer
Software Winsign
Ribbon
Printer cable

DESCRIPTION
Print: Ribbon, thermal transfer printing
Speed: 500 cards/hour
PC connection: USB
Profile types: PFC-cards

ProMark T-1000 - THERMAL TRANSFER PRINTER

- Compact, portable and robust printer for cable, wire and component marking on site.
- Feeds, prints and cuts Partex PO/POZ, PP+, PPA+, PHZ and PL/PLL.
- USB connection, controlled by Partex software WinSign.

THE BASIC T-1000 KIT INCLUDES
PROMARK T-1000 Printer
Software Winsign
Power cable, USB cable, AC adapter
Ink ribbon (40 m)
Tube atthachement
Reel stand
Soft carrying case
PO-05 profile, PO-068TW profile

DESCRIPTION
Print: Ribbon, thermal transfer printing
Speed: 18,5, 25 or 40 mm/s
PC connection: USB
Profile types: Continuous profiles
                  Tape cassettes

MK10/MK10DH - THERMAL TRANSFER PRINTER

- Compact heavy duty printer for high demand production.
- Feeds, prints and cuts bulk Partex profiles and self-adhesive profiles.
- USB connection, controlled by Partex software WinSign.
- Single or dual printer head.

THE BASIC MK10 KIT INCLUDES
MK10 Printer
Software WinSign
USB cable
Power Cable
Ribbon
Cutting unit

DESCRIPTION
Print: Ribbon, thermal transfer printing
Speed: 125 mm/s
PC connection: USB
Profile types: Continuous profiles

EOS1 - THERMAL TRANSFER PRINTER

- Small table printer for high demand production.
- Feeds and prints Partex profiles and self-adhesive profiles.
- USB connection, controlled by Partex software WinSign.

THE BASIC EOS1 KIT INCLUDES
EOS1
USB cable
Power Cable

DESCRIPTION
Print: Ribbon, thermal transfer printing
Speed: 125 mm/s
PC connection: USB
Profile types: Continuous profiles

- Laser engraved signs in plastic, aluminium or stainless steel.
- Avaliable in multiple colors and sizes.
- Self adhesive back for easy mounting.

Plastic	Plastic mirror engraved	Aluminium	Stainless steel	Dimension cm²
PE-003P	PE-003PM	-	-	0-3.0
PE-007P	PE-007PM	-	-	3.1-7.0
-	-	PE-008A	PE-008S	8.0
-	-	PE-012A	PE-012S	12.0
PE-015P	PE-015PM	-	-	7.1-15.0
		PE-016A	PE-016S	16,0
		PE-024A	PE-024S	24,0
PE-025P	PE-025PM		-	15.1-25.0
		PE-032A	PE-032S	32.0
		PE-036A	PE-036S	36.0
PE-040P	PE-040PM	PE-040A	PE-040S	25.1-40.0
		PE-048A	PE-048S	48.0
PE-055P	PE-055PM	-	-	40.1-55.0
		PE-060A	PE-060S	60.0
		PE-064A	PE-064S	64,0
PE-070P	PE-070PM	-	-	55.1-70.0
PE-085P	PE-085PM	-	-	70.1-85.0
PE-100P	PE-100PM	-	-	85.1-100.0
PE-115P	PE-115PM	-	-	100.1-115.0
PE-125P	PE-125PM	-	-	115.1-125.0
PE-135P	PE-135PM	-	-	125.1-135.0
PE-145P	PE-145PM	-	-	135.1-145.0
PE-175P	PE-175PM	-	-	145.1-175.0

Standard sizes - other sizes avaliable on request
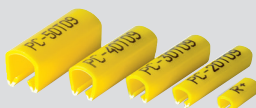
Customized multi-character markers

CLOSED WIRE MARKER

Product group		Diameter mm	AREA mm²	AWG	Sleeve length min-max mm
PVC	ZEREX				
PY-01	-	1.0–2.0	~0.2–0.7	~24–19	6–39
PA+02	PAZ+02	1.3–3.0	~0.2–1.5	~22–16	9–48
PA+05	PAZ+05	2.0–4.0	~0.5–2.5	~18–14	9–48
PA+1	PAZ+1	2.5–5.0	~0.75–4.0	~16–11	9–48
PA+11	PAZ+11	2.8–5.5	~1.0–6.0	~16–10	9–48
PA+2	PAZ+2	4.0–10.0	~2.5–16.0	~13–5	9–48
PA-3	PAZ-3	8.0–16.0	~16.0–70.0	~5–	9–48
PO-01	POZ01	1.3–1.8	~0.25	~23–20	9–48
PO-02	POZ02	1.7–2.2	~0.5	~20–18	9–48
PO-03	POZ03	2.0–2.5	~0.75	~18–17	9–48
PO-04	POZ04	2.2–2.8	~1.0	~17–15	9–48
PO-05	POZ05	2.7–3.5	~1.5	~15–13	9–48
PO-06	POZ06	3.2–4.0	~2.5	~13–11	9–48
PO-07	POZ07	3.8–4.7	~4.0	~11–9	9–48
PO-08	POZ08	4.6–5.5	~6.0	~9–7	9–48
PO-09	POZ09	5.6–7.0	~10.0	~7–5	9–48
PO-10	POZ10	6.5–8.0	~16.0	~5–3	9–48
PO-11	POZ11	7.0–9.5	~18.0	~4–3	9–48
PO-12	POZ12	7.5–10.0	~20.0	~4–2	9–48
PO-14	POZ14	9.5–12.0	~25.0	~1/0	9–48
PO-16	POZ16	11.5–14.0	~35.0	~1/0–2/0	9–48
PO-18	POZ18	13.5–16.0	~50.0	~2/0–3/0	9–48
PO-20	POZ20	15.5–18.0	~70.0	~3/0–4/0	9–48
PO-22	POZ22	17.5–20.0	~95.0	~4/0	9–48
PO-24	POZ24	19.5–22.0	~120.0	~4/0–5/0	9–48
PO-26	POZ26	21.5–24.0	~150.0	~5/0–6/0	9–48
PO-28	POZ28	24.0–28.0	~185.0	~6/0–7/0	9–48

LENGTH AND CHARACTERS

Max number of characters	Sleeve length mm
3	9
4	12
5	15
7	18
9	21
12	24
13	27
15	30
17	33
19	36
21	39
24	42
27	45
30	48

OPEN WIRE MARKER

Product group		Diameter mm	AREA mm²	AWG	Sleeve length min-max mm
PVC	ZEREX				
PC-10	PCZ10	2.4–3.0	~1.0	~22–16	9–48
PC-20	PCZ20	3.0–4.0	~2.5	~16–12	9–48
PC-30	PCZ30	4.0–5.0	~4.0	~12–11	9–48
PC-40	PCZ40	5.0–6.2	~6.0	~11–10	9–48
PC-50	-	6.0–7.2	~10.0	~7–5	9–48

CABLE MARKER

Product group		Length mm	Max no of characters	Punched holes
PVC	ZEREX			
PK	PKZ	9–48 (min-max)	3-30	No
PK-20Q18	-	18	7	Both ends
PK-20Q25	PKZ20Q25	25	12	In center
PK-20Q40	PKZ20Q40	40	21	Both ends
PK-20Q60	-	60	42	Both ends
PK-20Q80	-	80	60	Both ends
PK-20Q100	-	100	82	Both ends

Type	Width mm	Length mm	Max no of characters	Punched holes
PPQ+10	10	40 / 60 / 80	6 / 12 / 18	Both ends
PPQ+19	19	40 / 60 / 80	6 / 12 / 18	Both ends
PPQ+38	38	60 / 80 / 100	12 / 18 / 25	Both ends

STAINLESS STEEL MARKER

Type	Width mm	Length mm	Max no of characters	Punched holes
PKS10	10	39 / 50* / 70* / 90* / 110* / 130	5 / 8 / 13 / 18 / 23 / 28	1 in both ends
PKS19	19	50 / 70 / 90 / 110 / 130	8 / 13 / 18 / 23 / 28	1 in both ends
PKS25	25,4	50 / 70 / 90 / 110 / 130	8 / 13 / 18 / 23 / 28	1 in both ends
PKS32	32	50 / 70 / 90 / 110 / 130	8 / 13 / 18 / 23 / 28	2 in both ends
PKS38	38	50 / 70 / 90 / 110 / 130	8 / 13 / 18 / 23 / 28	2 in both ends

* Available with large slits. Please note less maximum numbers of characters due to large slits.

AWG and mm² sizes for guidance only

CUSTOMIZED PA+PROFILE

CUSTOMIZED MARKERS AS COUNTINUOUS PROFILE

CUSTOMIZED PK-PROFILE

CUSTOMIZED PK20Q-PROFILE

CUSTOMIZED PC-PROFILE

CUSTOMIZED MARKERS SORTED ON CARDBORD SHEET

CUSTOMIZED PKS MARKER

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PRODUCT OVERVIEW

PARTEX
MARKING SYSTEMS

www.partex.nu

English
September 2012

PARTEX develops manufactures and markets marking systems for cables, wires, pipes, hoses and electric components.

These systems are characterised by versatility, usefulness and quality.

70% of PARTEX products are exported and the company is represented in about 70 countries, either company subsidiaries or distributors.
The PARTEX MARKING SYSTEMS are used in the electrical industry.
Marking is as common in OEM, end-user and installation industries.

Correctly carried out marking reduces costs of service and maintenance, reconstruction and extension, as well as loss of production. PARTEX marking will particularly ensure such reduction.

Quality and an environmental approach are natural parts of PARTEX's business and accordingly we are certified to the ISO 9001 and ISO 14001 standards.

REACH

WEEE

ISO 9001 ISO 14001 BUREAU VERITAS Certification

TransQ empowered by Achilles
Qualified

IRIS BUREAU VERITAS Certification

√ **RoHS**

Halogen free

The demand for halogen free products started after the fatal underground fire in London 1987. Every year more and more companies upgrade their installations with products that are halogen free. We at PARTEX aim to give you a halogen free alternative (ZEREX) to all our products.

The halogens are five non-metallic elements found in group 17 of the periodic table. The term "halogen" means "salt-former" and compounds containing halogens are called "salts". All halogens have 7 electrons in their outer shells, giving them an oxidation number of -1. The halogens exist, at room temperature, in all three states of matter:

State	Halogen
Solid	Iodine, Astatine
Liquid	Bromine
Gas	Fluorine, Chlorine

With halogen free markers says it is normal to a product that does not contain PVC. Halogen free products are often a requirement in new projects and is slightly more expensive than ordinary products.

The reason for the use of halogen-free markers is that when PVC burns it releases chlorine contained in the plastic, that can react with water (used to extinguish the fire) to form hydrochloric acid-smoke. Hydrochloric acid is highly toxic if inhaled.

The toxicity of smoke is of highest concern within enclosed spaces where means of escape by persons are limited; examples include mass transit rail cars, ships, and Offshore Oil and Gas platforms. There have been several tragic fires that have occurred involving transit vehicles over recent years that have brought heightened concern to this issue. In a February 2003 incident, news reports of a fire involving two trains in a Daegu, South Korea subway station told of how toxic fumes and heavy black smoke prevented firefighters from making a quick rescue of those trapped. 120 were killed and many others injured in that incident.

Common "Halogen-Free" Terminology:

- ZEREX (PARTEX)
- Halogen Free
- Zero Halogen
- No Halogen
- 0H
- ZH

PAZ is a closed wire marker that is available in different sizes. The different sleeves can be mounted on a wire with the diameter of 1.3 up to 16.0 mm. This profile is available as both single and multi character marking. The characters are printed with black etching ink with high resolution. The standard colours for PAZ are yellow and white, but other colours on request.

PKZ is a cable marker that is available as both single and multi character marking. Single characters can be combined on a holder and mounted on the wire with cable ties. Multi character marker can be mounted on a holder, but can also be punched so that you can tread a cable tie through the marker. The characters are printed with black etching ink with high resolution. The standard colours for PAZ are yellow and white, but other colours on request.

POZ is an oval marking profile with a diameter range from 1.3 to 28.0 mm. The profile is delivered as continuous tube on big reels, compactadiscs or strips in cartons for marking on site. The marker information can be printed by using printers such as MK10, SP2000 and MK9 ProMark. The standard colours for POZ are yellow and white, but other colours on request.

PCZ is an open wire marker with a diameter range from 2.4 to 7.2 mm. This profile is only available as multi character marking. The characters are printed with black etching ink with high resolution. The standard colours for PCZ are yellow and white, but other colours on request.

PHZ & PHZ-F is a thin wall zero halogen shrinkable tubing with excellent fire safety characteristics. This is allied to low smoke emissions and evolution of acid gases. The profile has a shrink ratio of 2:1 and can be printed on site with Partex marking equipment. We can also print on the tube if you send us a document with the marking information. The profile has a diameter range from 1.6 to 51.0 mm.

The **PTZ+** sleeves are designed for X-Card PFC tags, PF foils and PP-profile. The sleeve consists of a yellow basic sleeve and a transparent oval pocket. For other colours, please contact Partex.

PTZ+15, PTZ+25 and PTZ+35 sleeves are designed in special dimensions with wider pocket for larger labels in order to accommodate more marking information.

PPQZ, is a profile with pre-punched cable markers that can be cut and printed on with the MK10 system. The profile is delivered on a big reel with over 300 markers (20m). The marker is mounted on a cable by using cable tiesmore marking information.

SPZ, a flexible spiral tube for fitting cables, conductors, tubes, wire bundles etc.

Manufacturers

To meet the customer's specifications and different standards, many train manufacturers use PARTEX halogen free wire markers for their projects. They send us their wiring lists by email and in a matter of days they will receive the complete sets of pre-printed markers at their production site

The markers are sorted and packed according to their requirements, making the application procedure quick, fail-safe and cost effective.

Correct marking will increase efficiency and safety. End users are seeing the value of marking. Contractors and installers see that they can add value to their services by including marking. The amount of time saved when a technician troubleshoot a properly administered cabling system versus an unlabeled system. It can be minimized through proper management.

For more than 40 years PARTEX has been a supplier to the Swedish railway industry, and now PARTEX deliver marking systems worldwide. The specifications and demands in this industry are among the toughest in the world. Quality and environmental concerns are of uppermost importance in the PARTEX organization.

Some companies that are using PARTEX products.

- **ABB**
- **ALSTOM**
- **BEHR**
- **BOMBARDIER**
- **DELLNER COUPLERS**
- **ELECTRO MOTIVE DIESEL (EMD)**
- **HYUNDAI ROTEM**
- **IVECO**
- **KOCKUMS MARINE**
- **KONČAR**
- **MERMEC**
- **NEWAG**
- **PESA**
- **SAAB AUTOMOBILE**
- **SCANIA**
- **SESCO**
- **SIEMENS**
- **TVAB**
- **VOLKSWAGEN**
- **VOLVO**
- **WÄRTSILÄ**

PA+ / PAZ - WIRE MARKERS

`123 M2` `123 M3`

- **PA+ with unique patented grooves for easier mounting and flat top for improved readability.**
- **Multi-character marking on one single sleeve.**

+ Availible in PVC (PA+) or halogen free (PAZ) material.
+ Diameter range from 1.3 mm up to 16.0 mm
+ Can be printed on site with PARTEX printers or ordered customized with the marker information you want. (M2)

PK / PKZ - CABLE MARKERS

`123 M2` `123 M3`

- **A cable marker that can be mounted on a holder and then mounted on a cable with cable ties.**
- **The Cable marker can also be punched so that it can be mounted directly onto a cable with cable ties**

+ Availible in PVC (PK) or halogen free (PKZ) material.
+ One or two lines of text
+ Can be printed on site with PARTEX printers or ordered customized with the marker information you want. (M2)

PO / POZ - CABLE AND WIRE MARKERS

`123 M2` `123 M3`

- **Oval marking profile with sizes for a big cable diameter range.**
- **Customized multi-character marking on one single sleeve.**
- **Permanent marking but still adjustable on cable or wire..**

+ Availible in PVC (PO) or halogen free (POZ) material.
+ Diameter range from 1.3 mm up to 28.0 mm
+ Can be printed on site with PARTEX printers or ordered customized with the marker information you want. (M2)

PHZ & PHZF - HEAT SHRINK TUBING

`123 M2` `123 M3`

- **Flexible zero halogen thin wall polyolefin heat shrink tubing for marking.**
- **Diameter size from 1.6 mm up to 50.8 mm**
- **Flexible and easy mounted on cables and wires.**

+ 2:1 shrink ratio.
+ Diameter range from 1.6 mm up to 50.8 mm
+ Low smoke generation and evolution of acid gases.
+ Can be printed on site with PARTEX printers or ordered customized with the marker information you want. (M2)

Track and Signal

Many companies in the Track and Signal industry uses PARTEX as a supplier. They work with third rail electrification, power supply systems, signal works and infrastructure maintenance for main line, metro and light rail systems. PARTEX has markers suited for all applications

When laying new track or maintenance existing tracks these companies uses PARTEX PKS system. The AISI 316 steel has good resistance to heat, cold, corrosion, acids, chemicals etc. and this makes it an ideal marker to use for marking every cable along the tracks.

The PKS system can be ordered as customized (M2) and we punch in the information you want on each text carrier. The text can be ordered on one or two lines. With the single carrier system you can combine your own information on each carrier with help of single characters.

We use the same carrier for our customized marker as we use for our single character. This makes it possible for you to order a pre-punched text on each carrier and then on site just add a number or text information with single characters.

For example we at PARTEX punch in the information "Signal" and you can add on site the information "1" and "5" with single characters. You will now have a marker with the information "Signal 15"

For other applications you can use customized wire markers such as PA+/PAZ and cable markers PK/PKZ if they will be located in a less hostile environment then the PKS applications.

Some companies that are using PARTEX products.

- **ABB**
- **BANVERKET**
- **BALFOUR BEATTY RAIL**
- **DEUTSCHE BAHN**
- **JERNBANEVERKET**
- **STRUKTON**

PKS SINGEL CHARACTERS

- **Marking can be carried out on site with the help of easy-to-use single-characters, supplied either in refill packs or in complete sets.**
- **Good resistance to heat, cold, corrosion, acids, chemicals etc.**

+ The system comprises marker carriers with holes at either end or as slots for direct threading of steel cable ties, enabling rapid fitting.
+ AISI 316

PKS MULTI CHARACTERS

- **Text is stamped on the marker carriers themselves, to form complete multi-character markers**
- **Good resistance to heat, cold, corrosion, acids, chemicals etc.**
- **One or two rows of text**

+ The system comprises marker carriers with holes at either end or as slots for direct threading of steel cable ties, enabling rapid fitting.
+ AISI 316

PKS-GS4MT

- **Automatic cable tie tensioner and cutter for Partex stainless steel cable ties.**
- **The tool will correctly tension the ties and automatically cut off the tail when this is achieved.**

+ Width: 140mm,
+ Length: 180mm
+ Height: 30mm.
+ Weight: 0.6kg

PKS CABLE TIES

- **Stainless steel cable ties for hostile environments.**
- **High quality cable ties with good resistance to heat, cold, corrosion, acids, chemicals etc.**

+ Width: 4.6mm,
+ The cable ties are available as coated and uncoated.
+ Lengths: 150, 200 or 360 mm.
+ AISI 316

MAINTENANCE

All trains need maintenance, from the simplest train to a bullet train. A train will not make any money during the time it is in maintenance. Therefore it is very important to repair the train and get it to haul cargo or passengers in the fastest way possible. One way to do this is to minimize the time the technician has to troubleshoot. Less time is needed if the cable systems aboard the trains are labeled correctly.

Time and money is one thing, but the most important reason for identification is SAFETY! Would you troubleshoot a system were the cables contain high voltage and not labeled at all?

It is also very important to make sure that after an upgrade or a repair that the system once again is labeled correctly. This will make it easy to troubleshoot the system in the future.

For a scheduled repairs or upgrades it is very convenient to order multi-character markers from PARTEX. Send your marker information to PARTEX. We will produce it, sort it according to your specifications and then ship them to you on site, ready for immediate application. This may speed up the time needed for the maintenance.

Another solution is to buy one of PARTEX "Do it yourself" systems. These printers are perfect for small series of markers or as a complement to the pre-ordered multi-character markers.

Some companies that are using PARTEX products.

- **BOMBARDIER SERVICE**
- **EUROMAINT**
- **NEDTRAIN**
- **TRAINMAINT**

MK9 - Thermal transfer printer

- **Compact, portable, ID printer for cable, wire and component marking on site.**
- **Feeds, prints and cuts PARTEX PO/POZ (PO/POZ-02 to PO/POZ-07), PP, PPA and PHZ (PHZ032 to PHZ064) and self adhesive labels (PL)**

+ Print: Ribbon, thermal transfer printing,
+ Speed: up to 35 mm/s,
+ PC connection: USB-cable
+ Profile types: Continuous profiles and Tape cassettes

MK10 - Thermal transfer printer

- **Compact heavy duty printer for high demand production for wire, cable and component marking. (PO, PHZ, PP, PK etc.)**
- **Feeds, prints and cuts bulk PARTEX profiles and self adhesive profiles.**

+ Print: Ribbon, thermal transfer printing,
+ Speed: up to 125 mm/s,
+ PC connection: USB
+ Profile types: Continuous profiles

MK10-DH - Thermal transfer printer

- **Feeds, cuts and prints on both sides of bulk PARTEX profiles. (PO, PHZ, PKZ etc.)**
- **Compact heavy duty printer for high demand production for wire, cable and component marking.**

+ Print: Ribbon, thermal transfer printing,
+ Speed: up to 125 mm/s,
+ PC connection: USB
+ Profile types: Continuous profiles

MK500 - Plotter

- **Provides complete multi character marking for cables, wires, terminal blocks and components.**
- **Prints on PA+, PC, PK, POH, PFC, TX, and PS products.**

+ Print: Plotter pens with etching ink
+ Speed: 5 to 40 mm/s,
+ PC connection: USB
+ Profile types: Pre-cut profiles

M2: Customized multi-character marking on one single sleeve

Rational installation with one step mounting procedure saves time and marking costs.

Selection between three packagings consisting of:
1. Semi detached unsorted sleeves in big loops.
2. Customized sorted according to project demands.
3. Sorted and put on a cardboard sheet for excellent overview, random picking and mounting order.

The markers can be printed with black etching ink or on some products with laser. White and yellow are the standard colours, other colours on request.

MARKING TYPES
1. Closed wire marking: PY, PA+/PAZ and PO/POZ. (PA-3/PAZ3 can be delivered with 1- or 2-line text).
2. Open wire marking: PC/PCZ
3. Cable marking: PK/PKZ and PO/POZ bigger sizes with one or two lines of text. PK2 25 mm and PK2 40 mm punched for direct mounting with cable ties.
4. PO series cable and wire marking from size PO-01 to PO-28.
5. Stainless steel cable markers: PKS with one or two lines of text. With slots for direct mounting with stainless steel cable ties or with holes for mounting with rivets or screws
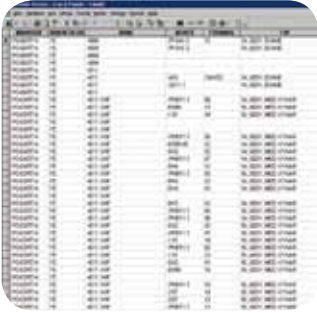
MARKING INFORMATION
Transfer of marking information to PARTEX via e-mail (e.g. with enclosed Excel files), fax or mail.

Contact PARTEX for more information.

Single-character markers vs. Multi-character marker
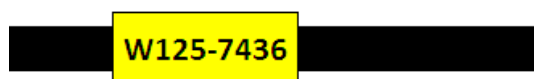
1. I.D. DATA

Send us your I.D. information by email, fax or mail to PARTEX. We handle databases, drawings and most PC file formats (Excel, txt-files etc.). Let us take care of your problems!

Send/e-mail to
k.order@partex.se

2. DATA INPUT

Our order processing department formats the information and passes it on to the manufacturing unit.

3. MANUFACTURING

Our machines execute the information and the printed markers head for the sorting area.

4. SORTING

The markers are sorted according to your request and specifications.

Quality control staff check markers files and finished product before releasing the shipment.

5. DELIVERY

Agreements with global freight agents mean quick and correct deliveries worldwide.

The markers arrive at your production site, ready for immediate application.

TESTS

To ensure that PARTEX MARKING SYSTEMS can withstand all kinds of stresses and strains, they are tested by the Swedish National Testing and Research Institute, where they are subjected to a series of strict tests.

These cover everything from how well the products stand up to mould and rust attacks, to how they withstand fire extreme temperatures, UV radiation and different types of chemical.

Some of the tests conducted are listed below:

TESTS	METHOD AND CRITERIA
Flammability	According to UL94.
Temperature – low	Sleeves held at – 30°C (–22°F) for 4 hours. Check for cracks, breakage or similar damage. Also check for mountability and dismountability.
Temperature – high	Sleeves held at + 70°C (+158°F) for 1 hour. If material passes test, repeated checks at higher temperatures are made.
Ageing resistance	Accelerated ageing in heat oven corresponding to use at 20°C (+68°F) for 30 years. Check for cracks, breakage or similar damage. (Max 50% reduction in elongation before breakage.) Also check for mountability and dismountability.
UV resistance	Accelerated test corresponding to iso 4892-2 exposure 1 year outdoors in southern Sweden. Check for brittleness and changes in colour and readability.
Abrasion resistance of marking text	Mounted sleeves kept for 24 hours at +23°C & −2°C (+73.4°F & 28.4°F) immersed in the chemical. Drying for 2 hours then check for functionality, colour fastness and print legibility. CHEMICALS USED Synthetic diesel oil, Sulphuric acid 2 5 %, Basic cleaning agent (Berol 226, 10%), Distilled water, Sea water (5% NaCl), Transformer oil (Nytro 10x), Ethanol 95%, Other chemicals on request.
Dielectric resistivity	According to IEC 93
Ozone resistance	Test specimens are elongated 33% and exposed to 100 +− 5 pphm ozone at +65°C & −3°C (+149°F & 26.6°F) for 192 hours.

CONTACT PARTEX FOR DETAILED PRODUCT TEST REPORTS

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