

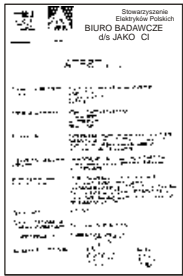
[www.wiremarkers.eu](http://www.wiremarkers.eu)

*J O A N N A*



*K U R A N T*





"Złota Iskra"





# WIRE MARKERS TYPE MZ<sup>®</sup>



## DESCRIPTION :

Wire Markers Type MZ<sup>®</sup> are resistant to most chemicals, oils, acids, common cleaning solvents and solutions. Durable imprint produced using our proprietary technology guarantees longevity and good abrasion resistance by embedding the imprint within a layer of clear PVC. Wire Markers Type MZ<sup>®</sup> are self-extinguishing and successfully passed a full cycle flammability tests conducted according to Underwriters Laboratories Inc. Standard UL 1581 Method VW-1 as confirmed by a Test Report. Wire Markers Type MZ<sup>®</sup> are patent, design and trade mark protected.

## MATERIAL :

PVC (polyvinyl chloride)

## COLOUR :

Yellow marker with black imprint.

Custom colours available upon request.

## APPLICATIONS :

Wire, cable, fibreoptic and telecommunication cable marking. Pneumatic and/or hydraulic line marking.

## THERMAL PROPERTIES :

Temperature range: continuous -30°C up to +100°C

## FLAMMABILITY :

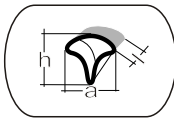
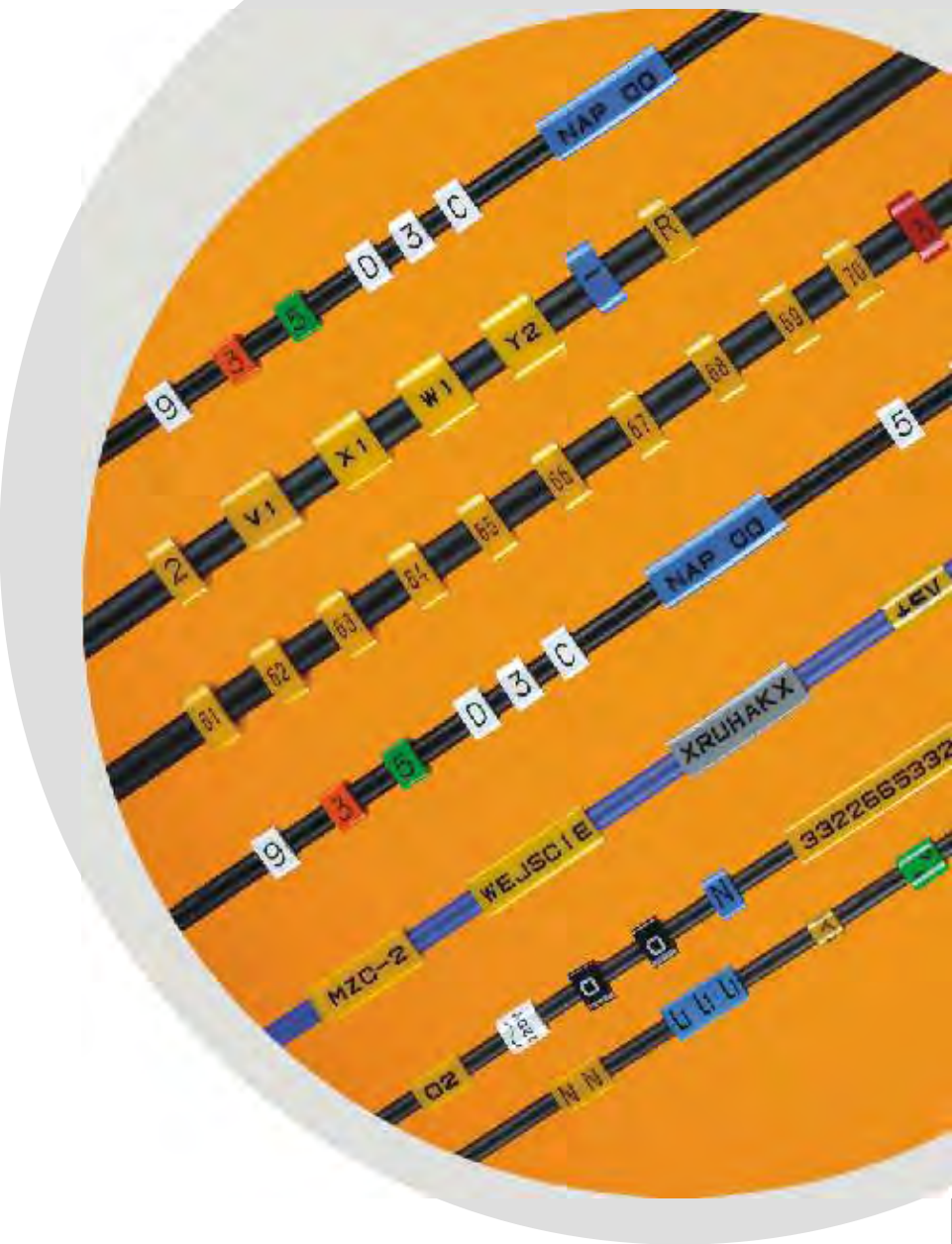
Self-extinguishing -UL 1581:2001 Method VW-1

## TESTS AND CERTIFICATION :

Meets the requirements of the European Directive 2002/95/EC (RoHS) dated January 27, 2003 restricting the use of some substances within electrical and electronic equipment.

Certificate of Conformance Biuro Badawcze Jako ci SEP, Certificate of Conformance with IEC European Standard 60.227-BBJ-SEP, Centrum Techniki Okr towej Gda sk, Certificate -Energoprojekt Pozna , Certificate - Polski Rejestr Statków.

**PACKAGING :** Standard packaging: 1000, 500 and 250 pcs. strips of pre-cut markers (all with same imprint) for easy detaching of individual pieces.

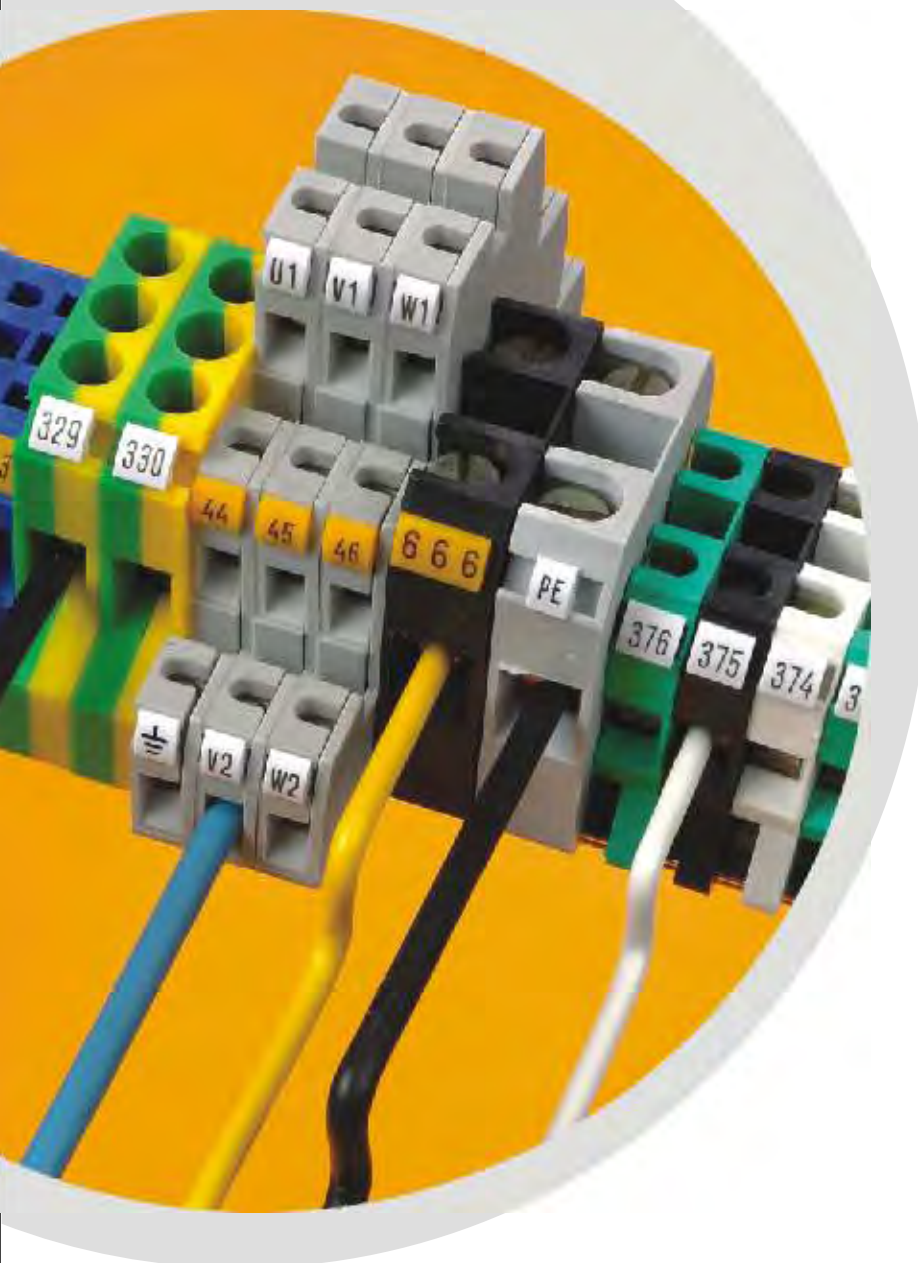


type	shape	wire or cable outside diameter (mm)	wire type (e.g.)	conductor's cross section mm <sup>2</sup>	markers dimensions (mm)		
					a	h	l
MZ-0		1,1 - 2,5	DY 500 TLY LgY 750	0,35 - 1,0 0,15 - 0,5 0,35 - 0,5	6	3	5
MZ-1		1,7 - 3,5	DY 500 LgY 750 DY 750	0,75 - 2,0(4) 0,35 - 2,5 0,5 - 2,5	6	7	5
MZ-2		3 - 6,5	DY 500 LgY 750 DY 750	2,5 - 10 1,5 - 6 2,5 - 6(10)	7	9	5
MZ-3		6 - 10,5	ALY 750 LgYd 750 YLY 1kV	16 - 35 6 - 25 1 - 10	10	16	5
MZ-4		10 - 16	LY 750 LgY 750 YLY 1kV	25 - 95 (16)25 - 70 10 - 35(50)	15	21	5
MZ-5		15 - 20	ALYd 750 LY 750 LgY 6kV YLY 1kV	70 - 150 70 - 150 10 - 35 35 - 70(95)	16	25	5

print symbols		
standard offer	0, 1, 2, 3, 4, ..... 9 A, B, C, D, ..... Z a, b, c, d, ..... z L1, L2, L3, PE, PEN + - ↓ ~ = , : /	numbers uppercase letters lowercase letters symbols signs
custom orders	1, 2, 3, 4, ..... 10 11, 12, 13, ..... 20 21, 22, 23, ..... 30 391, 392, ..... 400 10, 20, 30, ..... 100	strips 10 markers each
custom imprints available upon request	up to 12 different characters on each marker as per customers request	numbers uppercase letters lowercase letters symbols signs



# TERMINAL BLOCK MARKERS TYPE DK®



## DESCRIPTION :

Terminal Markers Type **DK®** are resistant to most chemicals, oils, acids, common cleaning solvents and solutions. Durable imprint produced using our proprietary technology guarantees longevity and good abrasion resistance by embedding the print within a layer of clear PVC. Terminal Markers Type **DK®** are self-extinguishing and successfully passed a full cycle flammability tests conducted according to Underwriters Laboratories Inc. Standard UL 1581 Method VW-1 as confirmed by a Test Report. Markers **DK®-Z5** (5mm width) fit a maximum of 2 characters, markers **DK®-Z6** (6mm width) fit a maximum of 3 characters.

## MATERIAL :

PVC (polyvinyl chloride)

## COLOUR :

Yellow marker with black imprint.

Custom colours available upon request.

## APPLICATIONS :

Terminal Markers **DK®** fit terminal blocks made by: SE "POKÓJ" Łódź, SIMET SA Jelenia Góra, ELEKTROBUDOWA Mikołów, PHOENIX-CONTACT (terminal blocks type UK-2,5B), WEIDMUELLER (terminal blocks series SAK), ENTRELEC (terminal blocks type MA 2,5/5) and many others.

## THERMAL PROPERTIES :

Temperature range: continuous -30°C up to +100°C

## FLAMMABILITY :

Self-extinguishing - UL 1581:2001 Method VW-1

## TESTS AND CERTIFICATION :

Meets the requirements of the European Directive 2002/95/EC (RoHS) dated January 27, 2003. restricting the use of some substances within electrical and electronic equipment.

Certificate of Conformance - Biuro Badawcze Jako ci - SEP, Certificate of Conformance with IEC European Standard 60.227-BBJ-SEP, Centrum Techniki Okr towej - Gda sk, Certificate - Energoprojekt Pozna , Certificate - Polski Rejestr Statków

**PACKAGING :** Standard packaging: 1000, 500 and 250 pcs. strips of pre-cut markers (all with same imprint) for easy detaching of individual pieces.

## print symbols

### standard offer

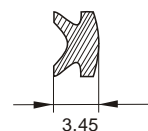
0, 1, 2, 3, 4, ..... 9  
A, B, C, D, ..... Z  
a, b, c, d, ..... z  
L1, L2, L3, PE, PEN  
+ - ↓ ~ = . , : /

numbers, uppercase letters  
lowercase letters, symbols,  
signs

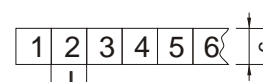
### custom orders

1, 2, 3, 4, ..... 10  
11, 12, 13, ..... 20  
21, 22, 23, ..... 30  
.....  
391, 392, ..... 400  
10, 20, 30, ..... 100

Note: Terminal Markers DK-Z5  
include numbers  
1 - 100



marker  
profile



L - pitch  
L = 5,8 - 6mm for DK/Z6  
L = 4,8 - 5mm for DK/Z5



# WIRE MARKERS TYPE MZ<sup>®</sup>/W



**DESCRIPTION :**

Wire Markers Type MZ<sup>®</sup>/W with reduced width to fit WAGO terminal blocks. The MZ<sup>®</sup>/W markers are resistant to most chemicals, oils, acids, common cleaning solvents and solutions. Durable imprint produced using our proprietary technology guarantees longevity and good abrasion resistance by embedding the imprint within a layer of clear PVC. Wire Markers Type MZ<sup>®</sup> are self-extinguishing and successfully passed a full cycle flammability tests conducted according to Underwriters Laboratories Inc. Standard UL 1581 Method VW-1 as confirmed by a Test Report. Wire Markers Type MZ<sup>®</sup> are patent, design and trade mark protected.

**MATERIAL :**

PVC (polyvinyl chloride)

**COLOUR :**

Yellow marker with black imprint.  
Custom colours available upon request.

**APPLICATIONS :** Wire, cable, fibreoptic and telecommunication cable marking. Pneumatic and/or hydraulic line marking.

**THERMAL PROPERTIES :**

Temperature range: continuous -30°C up to +100°C

**FLAMMABILITY :**

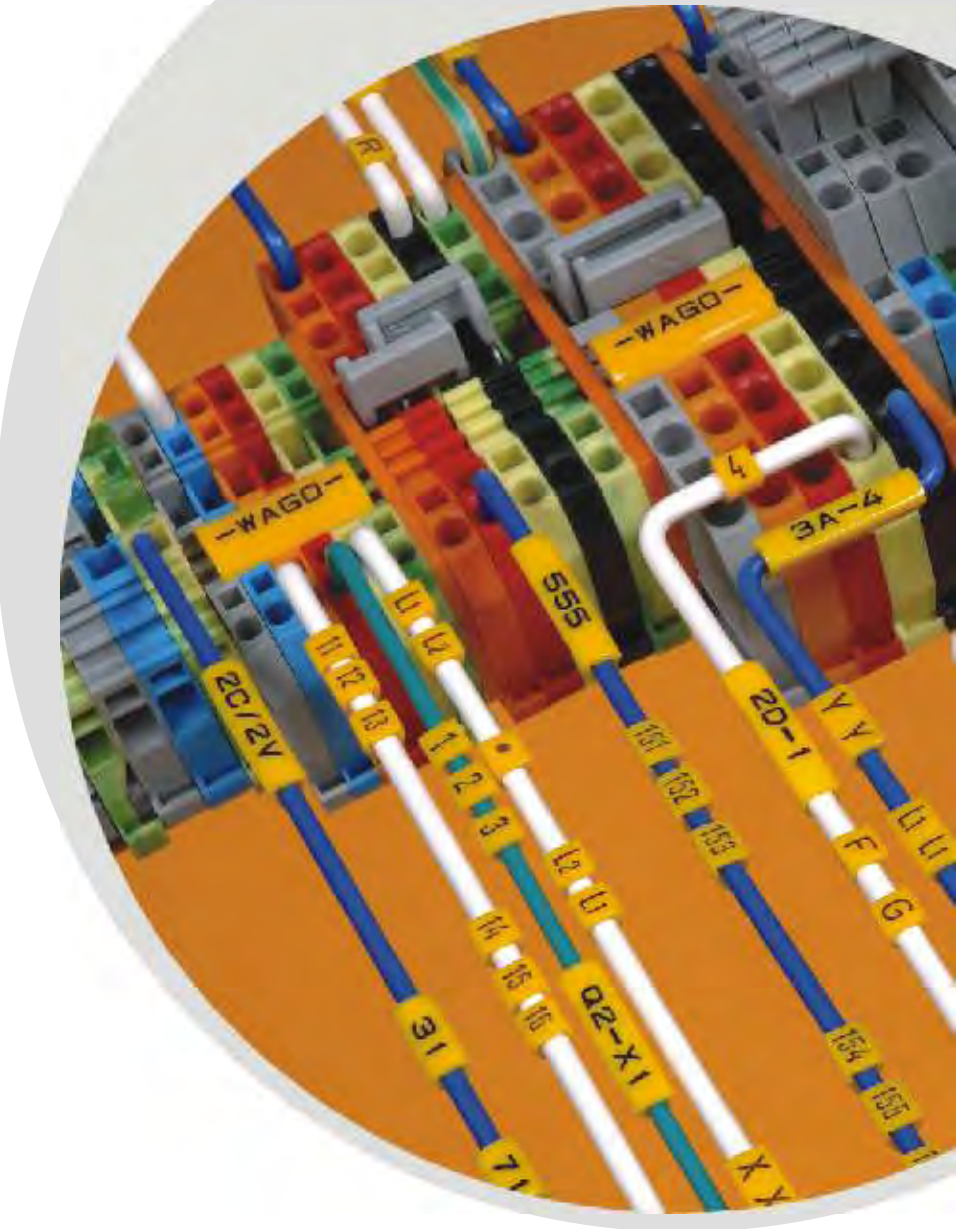
Self-extinguishing - UL 1581:2001 Method VW-1

**TESTS AND CERTIFICATION :**

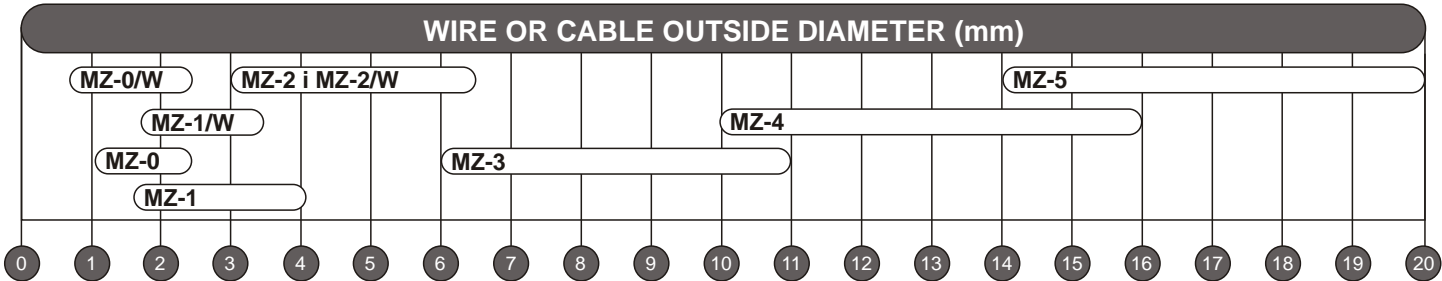
Meets the requirements of the European Directive 2002/95/EC (RoHS) dated January 27, 2003 restricting the use of some substances within electrical and electronic equipment.  
Certificate of Conformance Biuro Badawcze Jako ci SEP, Certificate of Conformance with IEC European Standard 60.227-BBJ-SEP, Centrum Techniki Okr towej Gda sk, Certificate -Energoprojekt Pozna , Certificate - Polski Rejestr Statków

**PACKAGING :**

Standard packaging: 1000, 500 and 250 pcs. strips of pre-cut markers (all with same imprint) for easy detaching of individual pieces.



type	shape	wire type (e.g.)	conductor's cross section (mm <sup>2</sup> )	markers dimensions (mm)
MZ-0/W		TLY, TDX DY 500 LgY 500	0,05 - 0,75 0,35 - 0,75 0,35 - 0,5	0,9 - 2,5
MZ-1/W		DY 500 LgY 750 LY 500	0,5 - 2,5 0,35 - 1,5 0,35 - 2,5	1,8 - 3,5
MZ-2/W		DY 750 LgY 750 LY 750	1,5 - 10,0 1,0 - 6,0 0,75 - 10,0	3,0 - 6,5





# LABELING SYSTEMS

Large family of cable and wire markers type MZ<sup>®</sup> offered by our company makes it easy to select just the right product for your specific needs. Markers size MZ-4 and/or MZ-5 are very well suited for larger cable sizes and wire harnesses. Individual wires and smaller diameter lines could be marked using sizes MZ-0 and/or MZ-1.

Cable ties of various lengths with threaded on cable markers are often used when more elaborate information is required, such as:

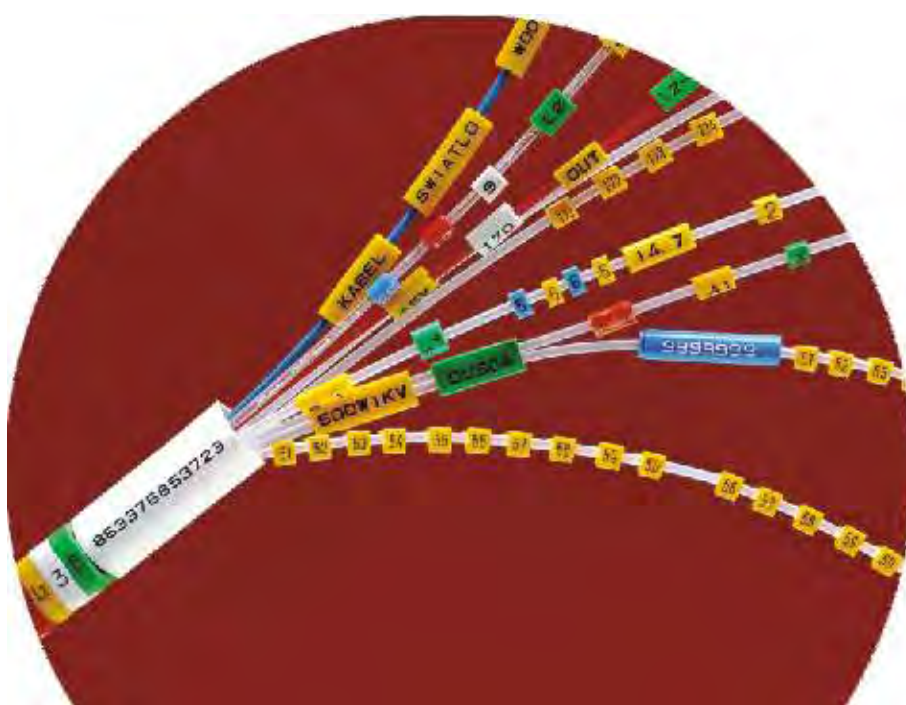
- cable type,
- owner info,
- reference,
- installation info and more.

Choosing one of our quality products you always get:

- long lasting, abrasion resistant imprint,
- excellent thermal and environmental durability confirmed by certification **BBJ-SEP** and European Standard **IEC** compliance,
- self extinguishing properties,
- wide range of colours, 11 offered,
- mounting stability,
- continuous temperature range -30 °C to +80 °C.

**Our wire markers were tested and/or certified by:**

- Biuro Badawcze Jakości - SEP - Certificate of Conformance,
- BBJ-SEP - Certificate of Conformance to IEC European Standard 60.227,
- Centrum Techniki Obróbkowej Gdansk - Certificate,
- Energoprojekt Poznań - Certificate,
- Polski Rejestr Statków - Certificate,





# WIRE MARKERS TYPE MZ<sup>®</sup>/MKK

## DESCRIPTION :

Wire Markers Type MZ<sup>®</sup>/MKK adhere to colours required by the international colour coding. Wire Markers Type MZ<sup>®</sup>/MKK are resistant to most chemicals, oils, acids, common cleaning solvents and solutions. Durable imprint produced using our proprietary technology guarantees longevity and good abrasion resistance by embedding the imprint within a layer of clear PVC. Wire Markers Type MZ<sup>®</sup> are self-extinguishing and successfully passed a full cycle flammability tests conducted according to Underwriters Laboratories Inc. Standard UL 1581 Method VW-1 as confirmed by a Test Report. Wire Markers Type MZ<sup>®</sup> are patent, design and trade mark protected.

## MATERIAL :

PVC (polyvinyl chloride)

## COLOUR :

0 - black, 1 - brown, 2 - red, 3 - orange, 4 - yellow, 5 - green, 6 - blue, 7 - purple, 8 - grey, 9 - white

## APPLICATIONS :

Wire, cable, fibreoptic and telecommunication cable marking. Pneumatic and/or hydraulic line marking.

## THERMAL PROPERTIES:

Temperature range: continuous -30°C up to +100°C

## FLAMMABILITY :

Self-extinguishing - UL 1581:2001 Method VW-1

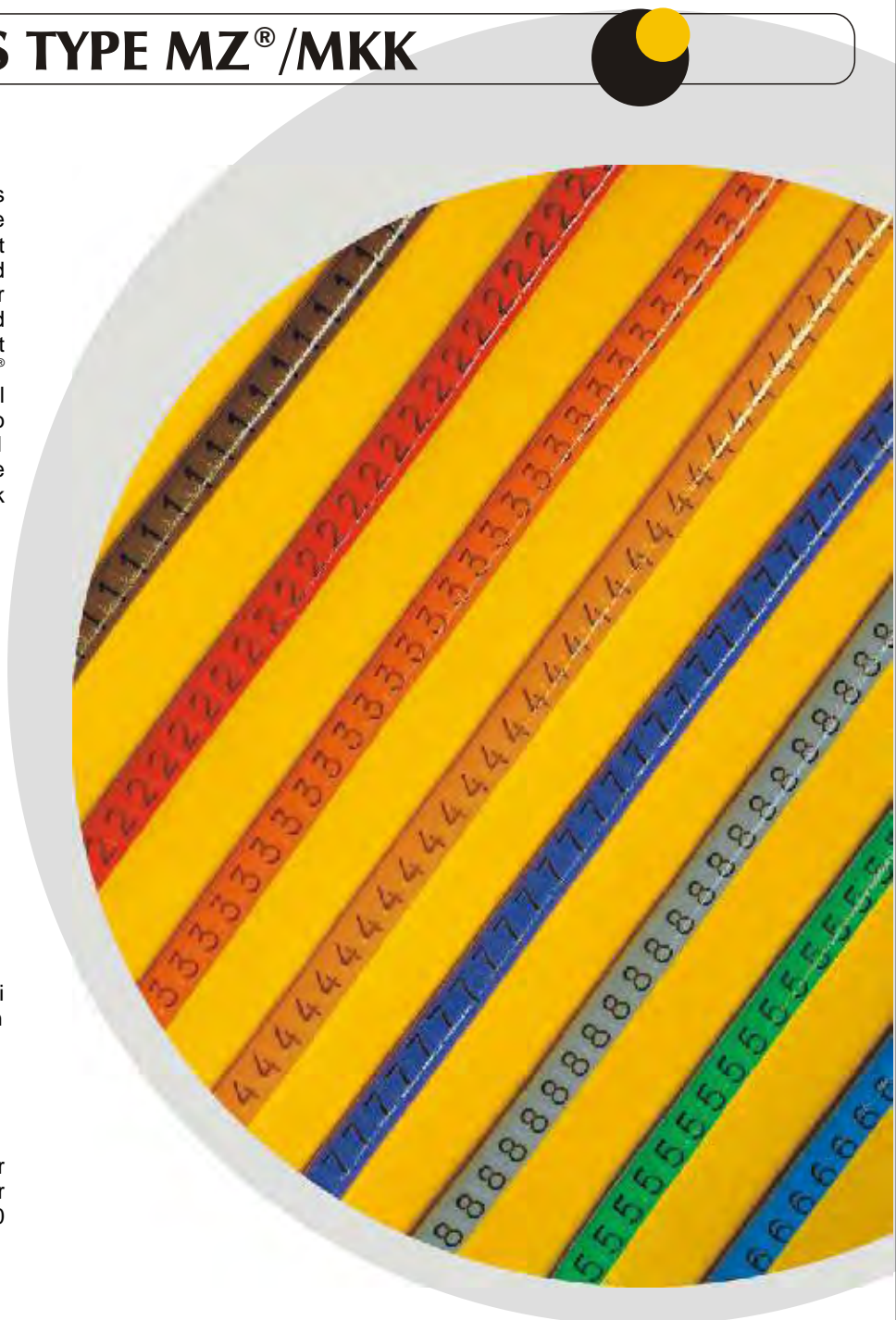
## TESTS AND CERTIFICATION :

Meets the requirements of the European Directive 2002/95/EC (RoHS) dated January 27, 2003 restricting the use of some substances within electrical and electronic equipment.

Certificate of Conformance Biuro Badawcze Jako ci SEP, Certificate of Conformance with IEC European Standard 60.227-BBJ-SEP, Centrum Techniki Okr towej Gda sk, Certificate -Energoprojekt Pozna , Certificate - Polski Rejestr Statków Certificate

## PACKAGING :

Standard packaging: 10 x 100 markers of one colour as strips of pre-cut markers, all with same imprint, for easy detaching of individual pieces for a total of 1000 markers.







Wire Markers Type MZ-T are made of self-extinguishing crosslinked polyethylene. Wire Markers Type MZ-T may be applied directly to the bare conductor or to an insulated wire. Having a larger internal diameter Wire Markers Type MZ-T may be applied over terminals, connectors etc. Durable imprint guarantees longevity and good abrasion resistance. Wire Markers Type MZ-T are printed to customer specifications using one or multiple characters in one or two lines using a combination of uppercase letters, numbers and/or symbols.

XLPE (crosslinked polyethylene).

Markers -white, yellow, blue, red or green. Custom colours available upon request.

Imprint - black or custom upon request.

Wire, cable, fibreoptic and telecommunication cable marking. Pneumatic and/or hydraulic line marking. Ideal for computer, telecommunication and cable TV applications. May be applied over terminals and connectors before heat shrinking and shrunk in place. Recommended for halogen free wire and cable applications.

Temperature range: continuous -30°C up to +80°C

Low smoking, self-extinguishing -  
UL 224 (FMVSS 302)

Same as heat shrink tubing. Meets the requirements of the European Directive 2002/95/EC (RoHS) dated January 27, 2003 restricting the use of some substances within electrical and electronic equipment. Meets DEF STAN 59-97, 3rd edition, type 8.

Standard Pack: 100 markers with the same imprint.

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# WIRE MARKERS TYPE MZ-E



**DESCRIPTION :**

Clear, flexible, closed profile Wire Markers Type **MZ-E** with label slot for individual marking. Carefully designed cross-section and choice of quality materials ensures mounting stability and limits marker's tendency to creep along. Label may be applied before as well as after installation. Marker length is 21 mm. Label size is identical for all 4 marker sizes. Labels can be marked by hand or using dot matrix or laser printers.

**MATERIAL :**

PVC (polyvinyl chloride)

**COLOUR :**

Clear, with white or yellow labels

**APPLICATIONS :**

Wire, cable, fibreoptic and telecommunication cable marking. Pneumatic and/or hydraulic line marking.

**THERMAL PROPERTIES :**

Temperature range: continuous -30°C up to +70°C

**FLAMMABILITY :**

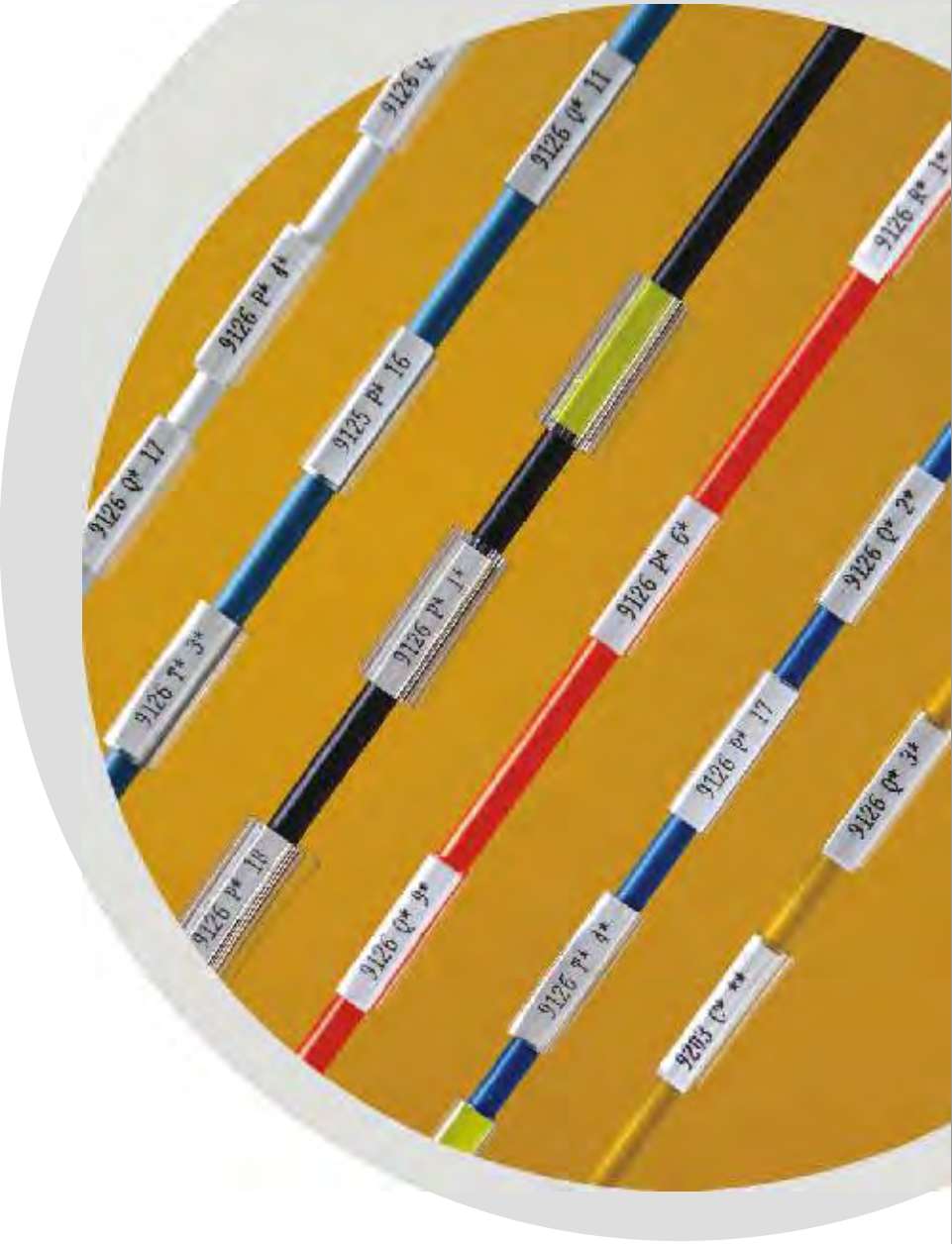
Self-extinguishing





**TESTS AND CERTIFICATION :**

Meets the requirements of the European Directive 2002/95/EC (RoHS) dated January 27, 2003 restricting the use of some substances within electrical and electronic equipment.

**PACKAGING :**

Standard packaging: 200 markers with a sheet of labels.



shape	type	wire or cable outside diameter (mm)	conductor's cross section mm²	packaging (pcs)
	MZ/E-02	1,3 - 3,0	0,25 - 1,5	200
	MZ/E-10	2,5 - 5,0	1,5 - 4,0	200
	MZ/E-20	4,0 - 10	2,5 - 16	200
	MZ/E-30	8,0 - 16	16 - 70	200





# WIRE MARKERS TYPE MZ-AS



**DESCRIPTION :**

Clear, flexible, closed profile blank Wire Markers Type MZ-AS for individual marking. Carefully designed cross-section and choice of quality materials ensures mounting stability and limits marker's tendency to creep along. Extended length of Wire Markers Type MZ-AS allows for multi-character text. Both, permanent markers or special printers can be used for marking. We also offer custom imprinting using our proprietary technology, which guarantees longevity and good abrasion resistance by embedding the imprint within a layer of clear PVC.

**MATERIAL :**

Electrical grade PVC (polyvinyl chloride)

**COLOUR :**

White with matte writing surface. Custom colours available upon request

**APPLICATIONS :**

Wire, cable, fibreoptic and telecommunication cable marking. Pneumatic and/or hydraulic line marking.

**THERMAL PROPERTIES :**

Temperature range : continuous -30°C up to +80°C

**FLAMMABILITY :**




Self-extinguishing - UL 1581:2001 Method VW-1

**TESTS AND CERTIFICATION :**

Meets the requirements of the European Directive 2002/95/EC (RoHS) dated January 27, 2003 restricting the use of some substances within electrical and electronic equipment.

**PACKAGING :**

Standard packaging: 100 markers of equal length.

type	shape	wire or cable outside diameter (mm)	conductor's cross section mm <sup>2</sup>	packaging (pcs)	dimensions (mm)	
					width	high
MZ-AS1		2,5 - 4	0,5 - 2,5	100	3,5	5,6
MZ-AS2		3,5 - 6	2,5 - 10,0	100	5	7,6
MZ-AS3		4,5 - 9	4 - 16,0	100	7,5	8,6



# WIRE MARKERS TYPE PCC



**DESCRIPTION:**

**Clip-on - open profile**

**Made of insulating materials**

**Do not creep along the conductor**

Due to their clip-on, open profile design wire markers type PCC may be installed:

- after final connections are made
- after terminals are installed
- during repairs without the need for re-connecting
- to wires and fibreoptic cables already attached to terminals and components.

Special design, shape and material's elasticity ensure markers' mounting stability limiting creep along the length of a conductor. Cleverly incorporated side prongs allow stacking many markers into multi character combinations with ease.

We offer wire markers PCC in 3 sizes (see table below)

**APPLICATIONS:**

Wire, cable, fibreoptic and telecommunication cable marking, pneumatic and/or hydraulic line marking.

**COLOURS:**

- capital letter, symbol and signs markers - yellow marker with black imprint,
- numbered markers - marker colours related to background colours as required by the international colour coding sequence.

**OPERATING TEMPERATURE:**

Continuous -40°C do +85°C (short term up to +105°C)

**MATERIAL:**

Poliamid 6.6

**PACKAGING:**

Standard pack contains 300 (PCC-30 - 200) markers with one and same imprint.

**Compliance with Directive EC:**

Meets the requirements of the European Directive 2002/95/EC (RoHS) dated January 27, 2003 restricting the use of some substances within electrical and electronic equipment.



Available imprint: numbers: 0 - 9

uppercase letters: A - Z

sings: + - . = /  $\perp$

type	shape	wire or cable outside diameter (mm)	conductor's cross section mm <sup>2</sup>	packaging (pcs)	length (mm)	no of characters
PCC-10		2,0 - 3,0	0,5 - 1,5	300	3,0	1
PCC-20		2,5 - 3,5	1,0 - 2,5	300	3,0	1
PCC-30		4,0 - 5,0	4,0 - 6,0	200	3,0	1





# WIRE MARKERS TYPE MZ<sup>®</sup>-DE

for individual marking with oversized tag



## DESCRIPTION :

Closed profile Markers Type MZ<sup>®</sup>-DE manufactured using translucent, flexible PVC are resistant to most chemicals, oils, acids, common cleaning solvents and solutions. Individually made oversized labels may be produced in-house or printed and supplied by us. Markers are mounted to the conductor using Cable Ties Type OTK allowing for greater flexibility and application to very large diameter cables and harnesses. Mounting ties also protect labels from misplacement and damage. Markers are self-extinguishing and passed a full cycle flammability tests conducted according to Underwriters Laboratories Inc. Standard UL 1581 Method VW-1 as confirmed by a Test Report

## APPLICATIONS :

Wire, cable, fibreoptic and telecommunication cable marking, pneumatic and/or hydraulic line marking

## COLOURS :

Clear, translucent markers

## TEMPERATURE RANGE :

-30°C to +70°C

## PACKAGING :

Standard package contains 100 markers. Please note, cable ties are not included! Wire ties and labels are sold separately.

## LABELS :

- 18mm x 9,5mm sheets of 352 labels
- 21mm x 4,6mm double sheets of 594 labels
- in-house produced labels on any suitable substrate

## COMPLIANCE WITH DIRECTIVE EC :

Meets the requirements of the European Directive 2002/95/WE (RoHS) dated January 27, 2003 restricting the use of some substances within electrical and electronic equipment.

## TESTS AND CERTIFICATION :

Self-extinguishing as per Standard UL 1581:2001 Method VW-1

type	shape	cable tie opening width (mm)	packaging (pcs)	width (mm)	thickness (mm)	length (mm)
MZ-DE1		3,0	100	11,0	2,5	35



# IDENTIFICATION TAGS TYPE TI



**DESCRIPTION :**

ID Tags Type TI are made of halogen free polyamide.  
ID Tags Type TI are used to mark wires, cables, wire harnesses and bundles etc. Text may be applied using permanent markers as well as using a permanent, abrasion resistant thermal method.  
ID tags are commonly fastened using cable ties.  
Multiple side openings allow for a free choice of mounting orientations.

**MATERIAL :**

Polyamide 6

**COLOUR :**

Natural. Custom colours available upon request.

**APPLICATIONS :**

Identification Tags Type TI are used to mark wires, cables, wire harnesses and bundles etc.

**THERMAL PROPERTIES :**

Temperature range - continuous -30°C ... +80°C

Temperature range - short term +140°C

Ignition Point +460°C

**FLAMMABILITY :**

Flammability Class V2 - UL 94

**TESTS AND CERTIFICATION :**

Meets the requirements of the European Directive 2002/95/EC (RoHS) dated January 27, 2003 restricting the use of some substances within electrical and electronic equipment.

**PACKAGING :**

Standard packaging: 50pcs.



Identification tag 80 x 50mm



Identification tag 80 x 25mm



length (mm)	width (mm)	packaging (pcs)
80	25	50
80	50	50



# ELECTRICAL PVC TUBING/SLEEVING

Termal Class A: temperature range -45°C to +105°C

Termal Class B: heat resistant up to +125°C



## DESCRIPTION :

Heat resistant electrical PVC tubing/sleeving is available with the inside diameter range from 0,5 mm to 35 mm and wall thickness range from 0,3 mm to 4,0 mm in a variety of standard and custom colours, plain or stripped. Special sizes and finishes are available upon request. Heat resistant electrical PVC tubing/sleeving withstands prolonged exposure to hot oils and is resistant to most chemicals, oils, acids, common cleaning solvents and solutions. Heat resistant electrical PVC tubing/sleeving is self-extinguishing and successfully passed a full cycle flammability tests conducted according to Underwriters Laboratories Inc. Standard UL 1581 Method VW-1 as confirmed by a Test Report.

## MATERIAL :

Electrical grade PVC certified to contain no cadmium and no lead

## COLOURS :

White, black, clear, blue, green, yellow, purple, red and other. Custom colours also available upon request.

## APPLICATIONS :

Wire, cable, hydraulic lines etc. insulation, sleeving, shielding and protection against abrasion and damage. Especially useful in elevated temperature applications such as automotive wire harnesses etc. Commonly used as liquid and gas lines and also as fuel lines. Other uses include wire marking and identification, etc.

## THERMAL PROPERTIES :

### Class A:

Temperature range - continuous -45°C up to +105°C

### Class B:

Temperature range - continuous -45°C up to +125°C

## OTHER PROPERTIES :

Thermal stability at 200°C - no less than 550 min.

Volume resistivity at 20°C -  $3,4 \times 10^{13}$  Ohm cm

Dielectric strength - 27kV/mm minimum

## STANDARDS :


PN-89/C-89209, PN-73/E-29200,

PN-EN 60684-1:2002, DIN 40621, IEC 332-1,

PN-92/T 90320

## COMPLIANCE WITH DIRECTIVE EC :

Meets the requirements of the European Directive 2002/95/WE (RoHS) dated January 27, 2003 restricting the use of some substances within electrical and electronic equipment

**TESTS AND CERTIFICATION :** Certificate of Conformance - Biuro Badawcze Jako ci - SEP, Flammability Test Report No. TP-03.026/ UL1581:2001 VW-1, Certificate - ZETOM Katowice Certificate - Faculty of Electrical Engineering - High Voltage Division, Technical University of Lodz Safety Mark B, 

## PACKAGING :

Coils 500m, 250m, 100m in lenght

Coils of any length up to 30kg in weight

Custom packaging available upon request.

typical internal diameter [mm]	typical range of wall thicknesses [mm]	estimated yield [mb/kg]
0,5; 1; 2	0,3 - 0,5	160 - 300
2; 3	0,5 - 1	125 - 155
3; 4	0,5 - 1	50 - 125
5; 6; 7	0,5 - 1,5	20 - 65
8; 9; 10; 11; 12	0,5 - 2	25 - 45
13; 14; 15; ...19	1 - 2	15 - 25
20; 21; 22; 23	1 - 2	10 - 15
24; 25; 26; ...30	1,0 - 2,0	5 - 10
31; ...35	1,0 - 2,5	3 - 5



# ELECTRICAL PVC TUBING/SLEEVING

TEMPERATURE RANGE -20°C to +80°C

## DESCRIPTION :

Electrical PVC tubing/sleeving is available in the inside diameter range from 0,5 mm to 35 mm and wall thickness range from 0,3 mm to 4,0 mm in a variety of standard and custom colours, plain or stripped. Special sizes and finishes are available upon request. Electrical PVC tubing/sleeving is resistant to most chemicals, oils, acids, common cleaning solvents and solutions. Electrical PVC tubing/sleeving is self-extinguishing and successfully passed a full cycle flammability tests conducted according to Underwriters Laboratories Inc. Standard UL 1581 Method VW-1 as confirmed by a Test Report.

## MATERIAL :

Electrical grade soft PVC (polyvinyl chloride)

## COLOURS :

White, black, clear, blue, green, yellow, purple, red and other. Custom colours also available upon request.

## APPLICATIONS :

Wire, cable, hydraulic lines etc. insulation, sleeving, shielding and protection against abrasion and damage. Commonly used as liquid and gas lines and also as fuel lines. Other uses include wire marking and identification, etc.

## THERMAL PROPERTIES :

Temperature range: continuous -20°C up to +80°C

## FLAMMABILITY :

Self-extinguishing - UL 1581:2001 Method VW-1

## TESTS AND CERTIFICATION :


Meets the requirements of the European Directive 2002/95/WE (RoHS) dated January 27, 2003 restricting the use of some substances within electrical and electronic equipment.

Certificate of Conformance - Biuro Badawcze

Jako ci - SEP,

Certificate of Conformance with IEC European

Standard 60.227-BBJ-SEP,

ZETOM Certificate No. 25/02 Safety Mark 

Test Report No. TP-03.026/ UL1581:2001 VW-1

## PACKAGING :

Coils 500m, 250m, 100m in length

Coils of any length up to 30kg in weight

Custom packaging available upon request.



typical internal diameter (mm)	typical range of wall thicknesses (mm)	estimated yield (m/kg)
0,5; 1; 2	0,3 - 0,5	160 - 300
2; 3	0,5 - 1	125 - 155
3; 4	0,5 - 1	50 - 125
5; 6; 7	0,5 - 1,5	20 - 65
8; 9; 10; 11; 12	0,5 - 2	25 - 45
13; 14; 15; ...19	1 - 2	15 - 25
20; 21; 22; 23	1 - 2	10 - 15
24; 25; 26; ... 30	1,0 - 2,0	5 - 10
31; ...35	1,0 - 2,5	3 - 5



# POLYETHYLENE TUBING PE



## DESCRIPTION :

Polyethylene tubing PE is available in the internal diameter range from 2 mm to 16 mm. Common uses include air lines, gas and liquid lines, protection, insulation, shielding as well as in short pieces to mark wires and cables. Polyethylene tubing PE is made using virgin polyethylene and is available in two distinct product groups:

with defined outside diameter ( 3 mm up to 16 mm +/- 0.1 mm) to fit standard fittings and clamps;

with defined inside diameter ( 2 mm up to 16 mm +/- 0.1 mm) to fit standard fittings and couplings.

## MATERIAL :

Virgin LDPE (low density polyethylene).

## COLOUR :

Natural. Custom colours available upon request with minimum order quantity of 20 kg.

## APPLICATIONS :

Air lines, gas and liquid lines, protection, insulation, shielding as well as in short pieces to mark wires and cables.

## THERMAL PROPERTIES :

Temperature range : continuous -10°C up to +40°C

## FLAMMABILITY :

Fire Hazard Class III

## TESTS AND CERTIFICATION :

Meets the requirements of the European Directive 2002/95/WE (RoHS) dated January 27, 2003 restricting the use of some substances within electrical and electronic equipment.

## PACKAGING :

Coils 50m, 100m in length

Custom packaging available upon request.

## STANDARD TYPES AND DIMENSIONS :

wall thicknesses 0,5mm	wall thicknesses 1,0mm	wall thicknesses 1,5mm	wall thicknesses 2,0mm
Ø 3/2	Ø 4/2	Ø 8/5	Ø 12/8
Ø 4/3	Ø 5/3	Ø 9/6	Ø 14/10
Ø 5/4	Ø 6/4	Ø 10/7	Ø 15/11
Ø 6/5	Ø 7/5	Ø 11/8	Ø 16/12
Ø 7/6	Ø 8/6	Ø 12/9	Ø 17/13
	Ø 9/7	Ø 13/10	Ø 18/14
	Ø 10/8	Ø 14/11	Ø 19/15
	Ø 12/10	Ø 15/12	Ø 20/16
	Ø 14/12	Ø 16/13	Ø 21/17
	Ø 16/14	Ø 17/14	Ø 22/18



# SPIRAL WRAP - WS®

## DESCRIPTION :

Spiral wrap WS® is available in the diameter range from 3mm to 20mm. It may be used to wrap bundles from 3mm to 60mm in combined outside diameter. Spiral wrap WS® is resistant to common solvents, lubricants and greases. It is also seawater and mould resistant. Due to its rigidity and shape Spiral wrap WS® is well suited to gather, bundle and wrap not only wires, cables and conductors of all types but also hydraulic and pneumatic lines, tubing and piping. Ideal in creating wire harnesses. Often used as colour coding and identification media.

## MATERIAL :

LDPE (low density polyethylene)

## COLOUR :

Black. Custom colours available with minimum order requirement of 20 kg

## APPLICATIONS :

Gathering, bundling and wrapping of variety of wires and cables, conductors, hydraulic and pneumatic lines, tubing and piping. Ideal in creating wire harnesses and as colour coding and identification media.

## THERMAL PROPERTIES :

Temperature range: continuous -30°C up to +70°C

## FLAMMABILITY :

Fire Hazard Class III

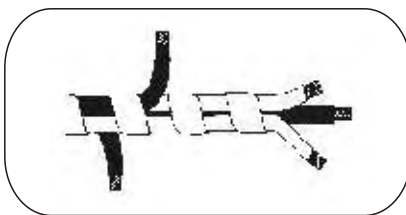
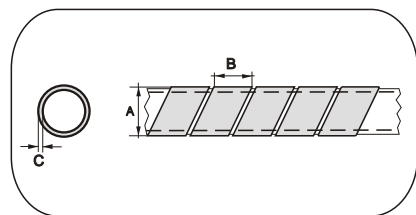
## TESTS AND CERTIFICATION :

Meets the requirements of the European Directive 2002/95/EC (RoHS) dated January 27, 2003 restricting the use of some substances within electrical and electronic equipment.

## PACKAGING :

Coils 50 m, 100 m in length.

Custom packaging available upon request.



type	colour and material	dimensions (mm)			bundle outside diameter (mm)
		A	B	C	
WS 3	PE black	3	4	0,5	3 - 10
WS 5		5	6	0,6	5 - 20
WS 10		10	11	0,9	10 - 30
WS 15		15	15	1,0	15 - 40
WS 20		20	19	1,3	20 - 60



# EDGE PROTECTOR TYPE OKB®

## DESCRIPTION :

Properly sized U-shaped Edge Protectors Type OKB® do not need gluing or fastening and offer protection as well as some insulating qualities. Edge Protectors Type OKB® are resistant to most chemicals, oils, acids, common cleaning solvents and solutions. Edge Protectors Type OKB® are self-extinguishing and successfully passed a full cycle flammability tests conducted according to Underwriters Laboratories Inc. standard UL 1581 Method VW-1 as confirmed by a Test Report.

## MATERIAL :

PVC (polyvinyl chloride)

## COLOUR :

Black, white, red, grey, blue, yellow, purple.  
Custom colours available upon request.

## APPLICATIONS

Mechanical protection of wires, cables, lines etc. Commonly used as grommets. Often applied to finish rough and uneven glass and sheet metal edges, to seal covers and access doors. Also used as a decorative finish to edges.

## THERMAL PROPERTIES :

Temperature range: continuous -30°C up to +70°C

## FLAMMABILITY :

Self-extinguishing - UL 1581:2001 Method VW-1

## TESTS AND CERTIFICATION :

Meets the requirements of the European Directive 2002/95/EC (RoHS) dated January 27, 2003 restricting the use of some substances within electrical and electronic equipment.

Test Report No. TP-03.026/ UL1581:2001 Method VW-1

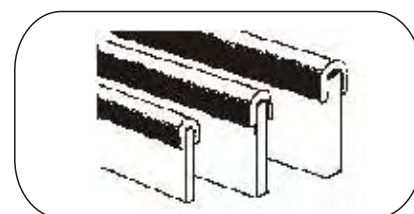
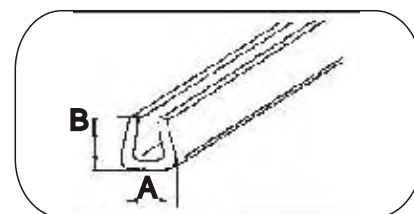
## PACKAGING :

Coils of any specified length up to a total weight of 30kg.

Custom packaging available upon request.

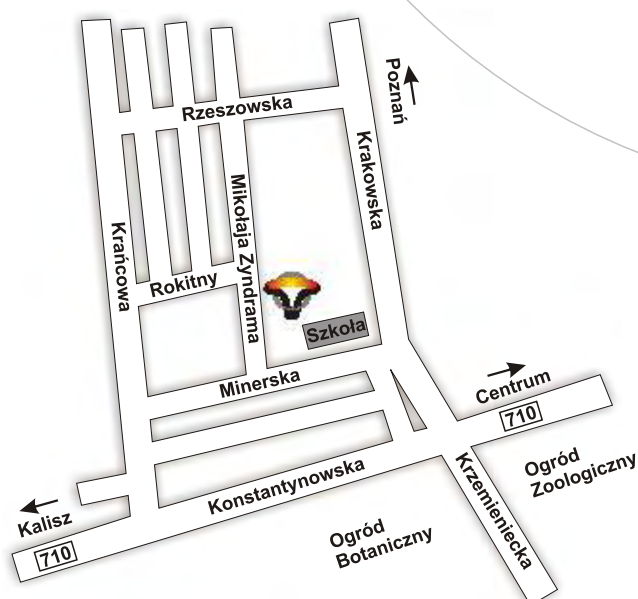


type	sheet metal thickness (mm)	approximate dimensions (mm)	
		A	B
OKB - 0,5	0,4 - 0,6	4	6
OKB - 1	0,7 - 1,1	4,5	8
OKB - 1,5	1,2 - 1,6	5	9
OKB - 2	1,7 - 2,2	5,5	10
OKB - 2,5	2,3 - 2,6	6	12
OKB - 3	2,7 - 3,3	6,5	13
OKB - 4	3,4 - 4,3	7	14
OKB - 5	4,4 - 5,3	9,5	19
OKB - 6	5,4 - 6,5	11	22





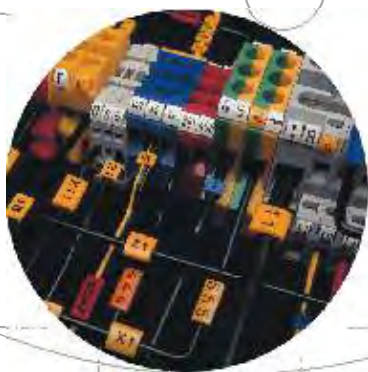
# Firma Kurant



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