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## Identification and marking



Cable accessories

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# Identification and marking

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Cable accessories

# Marking rings SR

## assembly rods



### SR assembly rods

Simple handling afforded by assembly rods characterise these marking rings. The nozzle-shaped assembly rod is forced onto the line and the snap-on sleeve pushed with the thumb. The marker sits tight on the line without slip.

### Material

Copolymer

### Technical data

Temperature range: -40°C to +105°C

Part No.	Colour with inscription	Type	Cable cross section from - to mm <sup>2</sup>	Cable-Ø from - to mm	Stick colour	Units	net EUR/100 units at acceptance of		
							1	2 - 5	6 - 10
95697	-	Assembly rod for SR 15	10 - 16	5,8 - 8,5	orange	5	o. r.	o. r.	o. r.
95797	-	Assembly rod for SR 17	16 - 25	8,5 - 11,5	orange	5	o. r.	o. r.	o. r.
99821	-	Assembly rod for SR 21	25 - 70	11,5 - 15,5	grey	2	o. r.	o. r.	o. r.
99822	-	Assembly rod for SR 24	70 - 100	15 - 19	grey	2	o. r.	o. r.	o. r.

o. r. = on request



Cable accessories

# Marking rings SR



## SR

Simple handling afforded by assembly rods characterise these marking rings. The nozzle-shaped assembly rod is forced onto the line and the snap-on sleeve pushed with the thumb. The marker sits tight on the line without slip. Available in white or yellow with black marking.

## Application

1.0 mm to 19.0 mm  
 0.10 mm<sup>2</sup> - 100 mm<sup>2</sup>

## Material

Copolymer

## Properties

Halogen-free, resistant to oils, cleaning agents, fuels and alkalis.

## Technical data

Temperature range: -40°C to +105°C

## Note

Code:  
 Replace the XX by the number of your required letter, figure or symbol.  
 1 item = indicated quantity of a symbol  
 Product No. 956xx up to 959xx loose, without rod.

Part No.	Colour with inscription	Type	Cable cross section from - to mm <sup>2</sup>	Cable-Ø from - to mm	Stick colour	Units	net EUR/100 units at acceptance of		
							1	2 - 5	6 - 10
950xx	white/yellow with black	SR 01	0,1 - 0,5	1,0 - 1,4	brown	300	o. r.	o. r.	o. r.
951xx	white/yellow with black	SR 02	0,5 - 0,7	1,4 - 1,8	grey	300	o. r.	o. r.	o. r.
952xx	white/yellow with black	SR 03	0,75 - 1,0	1,9 - 2,6	green	300	o. r.	o. r.	o. r.
953xx	white/yellow with black	SR 06	1,5 - 3,4	2,6 - 3,5	red	300	o. r.	o. r.	o. r.
954xx	white/yellow with black	SR 09	2,5 - 6,0	3,3 - 4,5	blue	300	o. r.	o. r.	o. r.
955xx	white/yellow with black	SR 12	6 - 10	4,5 - 6	yellow	300	o. r.	o. r.	o. r.
956xx	white/yellow with black	SR 15	10 - 16	5,8 - 8,5	-	50	o. r.	o. r.	o. r.
957xx	white/yellow with black	SR 17	16 - 25	8,5 - 11,5	-	50	o. r.	o. r.	o. r.
958xx	white/yellow with black	SR 21	25 - 70	11 - 15,5	-	50	o. r.	o. r.	o. r.
959xx	white/yellow with black	SR 24	70 - 100	15 - 19	-	50	o. r.	o. r.	o. r.

o. r. = on request



Cable accessories

# Marking Rings SR

## How to find the correct product code.

Replace the XX by the number of your required letter, figure or symbol.

### Basic colour: white

e. g.	A	△	...	00
	B	△	...	01
	C	△	...	02
	D	△	...	03
	E	△	...	04
	F	△	...	05
	G	△	...	06
	H	△	...	07
	I	△	...	08
	J	△	...	09
	K	△	...	10
	L	△	...	11
	M	△	...	12
	N	△	...	13
	O	△	...	14
	P	△	...	15
	Q	△	...	16
	R	△	...	17
	S	△	...	18
	T	△	...	19
	U	△	...	20
	V	△	...	21
	W	△	...	22
	X	△	...	23
	Y	△	...	24
	Z	△	...	25
	0	△	...	60
	1	△	...	61
	2	△	...	62
	3	△	...	63
	4	△	...	64
	5	△	...	65
	6	△	...	66
	7	△	...	67
	8	△	...	68
	9	△	...	69
	+	△	...	80
	-	△	...	81
	•	△	...	82
	/	△	...	83
	~	△	...	84
	↓	△	...	85
	neutral	△	...	86

### Basic colour: yellow

A	△	...	30
B	△	...	31
C	△	...	32
D	△	...	33
E	△	...	34
F	△	...	35
G	△	...	36
H	△	...	37
I	△	...	38
J	△	...	39
K	△	...	40
L	△	...	41
M	△	...	42
N	△	...	43
O	△	...	44
P	△	...	45
Q	△	...	46
R	△	...	47
S	△	...	48
T	△	...	49
U	△	...	50
V	△	...	51
W	△	...	52
X	△	...	53
Y	△	...	54
Z	△	...	55
0	△	...	70
1	△	...	71
2	△	...	72
3	△	...	73
4	△	...	74
5	△	...	75
6	△	...	76
7	△	...	77
8	△	...	78
9	△	...	79
+	△	...	90
-	△	...	91
•	△	...	92
/	△	...	93
~	△	...	94
↓	△	...	95
neutral	△	...	96

Example: Product code 95435 indicates ring type SR 09, letter „F“ in yellow.



Cable accessories

# Cable marker type E WM

a product by Thomas & Betts



## E WM

Self-adhesive cable marker in practical pocket book size.  
 10 side marker on siliconised carrier cards.  
 Installation applications, for repair and maintenance.  
 Book dimension: 15 x 8 cm  
 Marker: 5 x 31 mm  
 Perforated individual characters, 5 x 5 mm

## Material

Fibre tape  
 adhesive  
 Covering: carton

## Properties

Permanently self-adhesive, insensitive to moisture and oils.

## Technical data

Temperature range: -35°C to +95°C  
 Adhesion: 7.0 N/mm on steel

Part No.	Type	Book content	Marker	Units	net EUR/100 items at acceptance of		
					1	2 - 5	6 - 10
91148	E WM 0-9	40	Marker: 0 to 9	1	o. r.	o. r.	o. r.
91149	E WM 0-45	10	Marker: 0 to 45	1	o. r.	o. r.	o. r.
91150	E WM 46-90	10	Marker: 46 to 90	1	o. r.	o. r.	o. r.
91151	E WM A-Z	10	Marker: A to Z, +, -, 0 to 15	1	o. r.	o. r.	o. r.
91152	E WM 123	150	Marker: 1, 2, 3	1	o. r.	o. r.	o. r.
91153	E WM ABC	150	Marker: A, B, C	1	o. r.	o. r.	o. r.
91154	E WM ABC	10	Marker: 1 to 33, A, B, C, +, -, ; and for each 20 markers: T1, T2, T3	1	o. r.	o. r.	o. r.
91155	E WM A-90	4	Marker: 0 to 90, and for each 2 markers: A - Z, +, -, 0 to 15	1	o. r.	o. r.	o. r.

o. r. = on request



Cable accessories

# Cable marker type WMBW

a product by Thomas & Betts



## WMBW

Self-adhesive, writable cable marker in practical pocket book size.  
 10 side marker on siliconised carrier cards.  
 Installation applications, for repair and maintenance.  
 Book dimension: 15 x 8 cm

## Material

Vinyl strips  
 adhesive  
 Covering: carton

## Technical data

Temperature range: -30°C to +70°C  
 Adhesion: 5.2 N/mm on steel  
 Markable with: pencil, ball-pen, india ink pen

Part No.	Type	Book content	Size mm	Description field mm	Units	net EUR/100 items at acceptance of		
						1	2 - 5	6 - 10
91158	WMBW 3	30	25,0 x 124,0	25,0 x 25,0	1	o. r.	o. r.	o. r.
91159	WMBW 5	50	25,0 x 70,0	19,0 x 25,0	1	o. r.	o. r.	o. r.
91160	WMBW 12	200	13,0 x 32,0	13,0 x 16,0	1	o. r.	o. r.	o. r.
91161	WMBW 14	400	6,0 x 32,0	6,0 x 16,0	1	o. r.	o. r.	o. r.
91162	WMBW 34	140	19,0 x 32,0	16,0 x 19,0	1	o. r.	o. r.	o. r.

o. r. = on request



Cable accessories

# Cable marker type TM



## TM

Self-adhesive, writable cable marker in practical pocket book size.  
 10 side marker on siliconised carrier cards.  
 Installation applications, for repair and maintenance.  
 Book dimension: 15 x 8 cm

## Material

PVC  
 adhesive  
 UV-resistant  
 oil-resistant  
 self-extinguishing

Adhesive: acrylate  
 Covering: carton

## Properties

Resistant to:

- Water
- Alcohol
- Oils
- Greases
- Fuels
- Aliphatic solvents
- Weak acids
- Salts
- Alkalis

## Technical data

Temperature range: -40°C to +80°C

Markable with: pencil, ball-pen, india ink pen, matrix printer

Part No.	Type	Book content	Size mm	Description field mm	Units	net EUR/100 items at acceptance of		
						1	2 - 5	6 - 10
91146	TM 50	90	15,0 x 50,0	15,0 x 25,0	1	o. r.	o. r.	o. r.
91180	TM 75	60	25,0 x 75,0	25,0 x 25,0	1	o. r.	o. r.	o. r.
91181	TM 150	30	25,0 x 150,0	25,0 x 25,0	1	o. r.	o. r.	o. r.
91147	TM 230	30	25,0 x 230,0	25,0 x 25,0	1	o. r.	o. r.	o. r.

o. r. = on request



Cable accessories



# indian pen WT

a product by Thomas & Betts



## WT 163M-1 / WT 163M-3 ink pen

An adherent ink ensures that information and markings remain permanently visible. The ink is wipe, water and oil-resistant.

Part No.	Type	Colour	Units	net EUR/item at acceptance of		
				1	2 - 4	5 - 10
91119	WT 163-M1	black	1	o. r.	o. r.	o. r.
91120	WT 163-M3	red	1	o. r.	o. r.	o. r.

o. r. = on request



Cable accessories



## Pre-assembled cable protection systems for robotics and handling systems

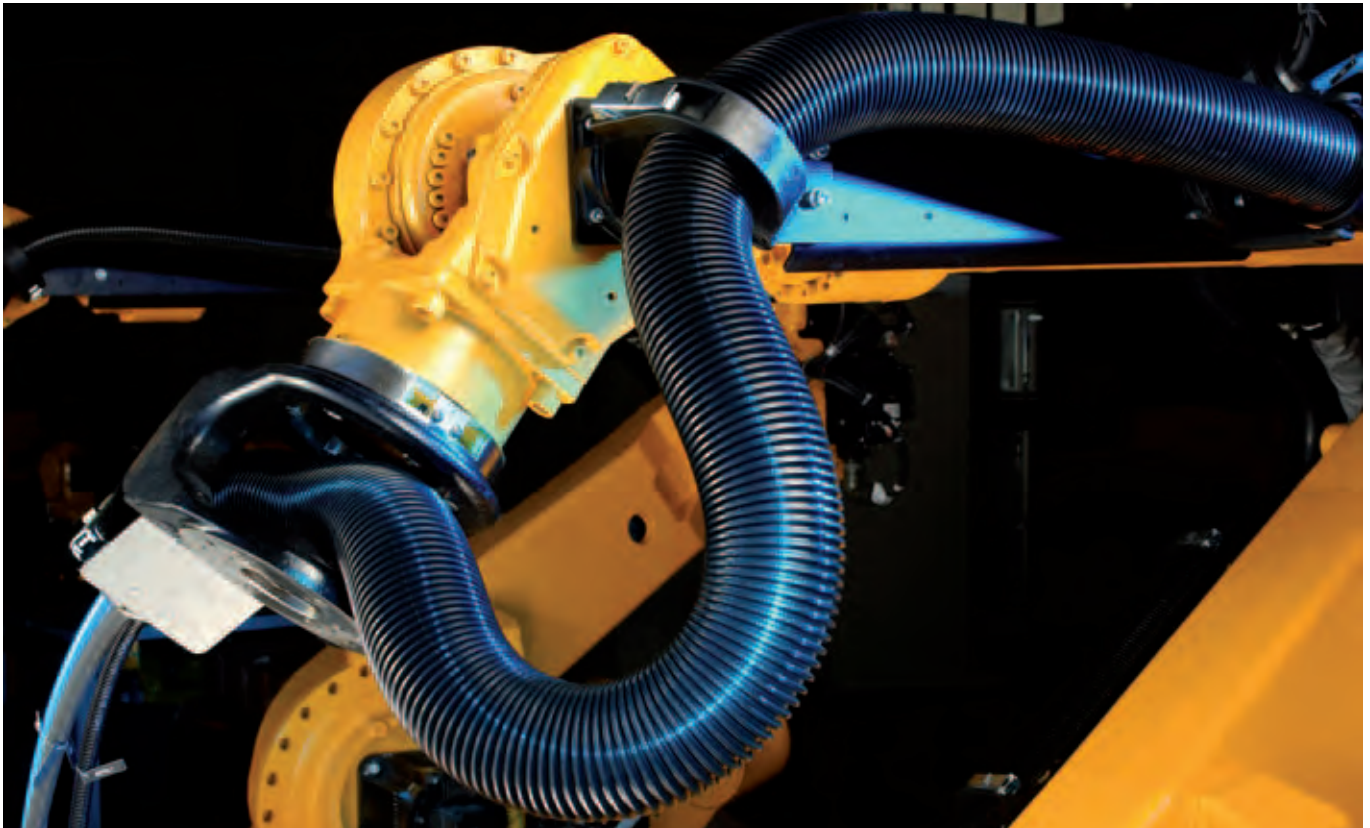


Photo: Helukabel®

After more than 30 years of experience with cables and wires, we have the solutions that fit the requirements that have come to us through the use of robots. With HELUROBOTICS, we offer specially assembled cable protection systems. From the planning, engineering and assembly to installation and servicing, we offer a wide range of complex solutions as individual or special solutions. The cables, wires, add-on systems and the cable protection system that is used are then tuned to the application, built and installed. This includes manufacturing and development, including the metal components, for handling, MAG and spot-welding, as series, individual or special solutions as well as service and installation.

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