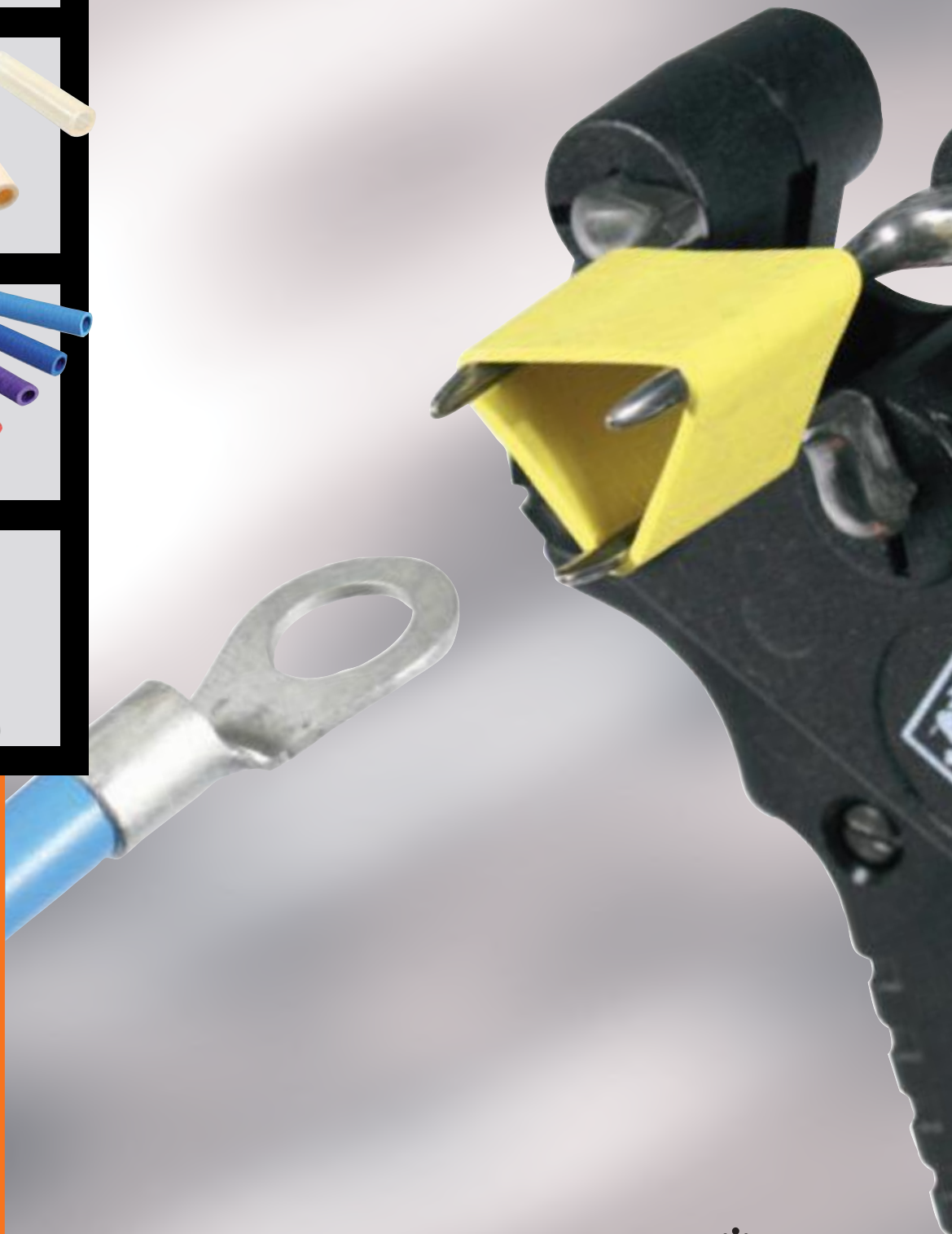




A1

Sleeves





SES HELAVIA and SILAVIA sleeves support and insulate the ends of electric cables. SES sleeves can be used in conjunction with SES coloured or printed markers.

SES sleeves help to protect from dirt deposits, corrosion and abrasion. SES sleeves can be used as protectors. Thanks to SES sleeves the cabling is ergonomic.

Page

- A1/1 HELAVIA standard sleeves in polychloroprene rubber black and coloured

HELAVIA sleeves British norm in polychloroprene rubber black and colours



- A1/2 HELAVIA sleeves in special lengths in polychloroprene rubber black



- A1/3 SILAVIA standard sleeves in silicone rubber for high temperatures natural, transparent and colours



- A1/4 Lubricant for HELAVIA and SILAVIA sleeves



- A1/90 Sleeve expander
The sleeve expander of the last generation have been designed with a view to ease of use and confort, particularly for the female workforce. The ergonomic aspect, a robust construction with modern, appropriate materials and finish are very important points.



HELAVIA® standard sleeves in polychloroprene rubber for SES® sleeve process



HELAVIA®




HELAVIA

Material:	polychloroprene rubber quality 3490
Operating temperatures:	-30 to +90°C (+110°C short time)
Hardness shore A:	40 ±5
Tensile strength at break:	>6,5 MPa
Ultimate elongation:	>500 %
Tear strength:	>10 kN/m
Dielectric strength:	>13 kV/mm
Volume resistivity:	4x10 ⁹ Ω.cm
Flame resistance:	V0 UL94
Lubricated sleeves:	until type A4



Standard colour: **010**
black



type	artide number	for wires Ø (mm)	length mm	Ø int. mm	wall thickness mm	
A0-M	0201 0071 010	1,25 - 2	20	1,25	0,5	1000
A0-C	0201 0001 010					100
A1-M	0201 0072 010	1,75 - 3,5	20	1,75	0,5	1000
A1-C	0201 0002 010					100
A1bis-M	0201 0073 010	2,4 - 4,5	20	2,4	0,6	1000
A1bis-C	0201 0003 010					100
A1K*-M	0201 0081 010	2,5 - 5,5	25	2,5	0,9	1000
A1K*-C	0201 0011 010					100
A2-M	0201 0074 010	3 - 6	25	3	0,6	1000
A2-C	0201 0004 010					100
A2K*-M	0201 0082 010	4 - 8	30	4	1,2	1000
A2K*-C	0201 0012 010					100
A3-M	0201 0075 010	5 - 9	25	5	0,7	1000
A3-C	0201 0005 010					100
A4-M	0201 0076 010	7,5 - 12	30	7,5	0,8	1000
A4-C	0201 0006 010					100
A5-D	0201 0077 010	10 - 15	35	10	0,9	500
A5-C	0201 0007 010					100
A8-D	0201 0078 010	12 - 20	50	12	1,2	500
A8-C	0201 0008 010					100
A9-D	0201 0079 010	14 - 23	50	14	1,3	500
A9-C	0201 0009 010					100
A10-D	0201 0080 010	17 - 28	50	17	1,3	500
A10-C	0201 0010 010					100



* thick-walled sleeves.

HELAVIA® standard sleeves in polychloroprene rubber for SES® sleeve process



HELAVIA®



Standard colours:

001	002	003	004	005	006	007	008	013	015	020
white	blue	green	yellow	orange	brown	red	purple	grey	pink	light blue

Example for order:

code group	detail article	code colours
02010	XXXX	XXXX

type	article number	for wires Ø (mm)	length mm	Ø int. mm	wall mm	
A0-FM COLOR	0201 0071 ***					1000
A0-FC COLOR	0201 0001 ***	1,25 - 2	20	1,25	0,5	100
A1-FM COLOR	0201 0072 ***					1000
A1-FC COLOR	0201 0002 ***	1,75 - 3,5	20	1,75	0,5	100
A1bis-FM COLOR	0201 0073 ***					1000
A1bis-FC COLOR	0201 0003 ***	2,4 - 4,5	20	2,4	0,6	100
A1K*-FM COLOR	0201 0081 ***					1000
A1K*-FC COLOR	0201 0011 ***	2,5 - 5,5	25	2,5	0,9	100
A2-FM COLOR	0201 0074 ***					1000
A2-FC COLOR	0201 0004 ***	3 - 6	25	3	0,6	100
A2K*-FM COLOR	0201 0082 ***					1000
A2K*-FC COLOR	0201 0012 ***	4 - 8	30	4	1,2	100
A3-FM COLOR	0201 0075 ***					1000
A3-FC COLOR	0201 0005 ***	5 - 9	25	5	0,7	100
A4-FM COLOR	0201 0076 ***					1000
A4-FC COLOR	0201 0006 ***	7,5 - 12	30	7,5	0,8	100
A5-FD COLOR	0201 0077 ***					500
A5-FC COLOR	0201 0007 ***	10 - 15	35	10	0,9	100
A8-FD COLOR	0201 0078 ***					500
A8-FC COLOR	0201 0008 ***	12 - 20	50	12	1,2	100
A9-FD COLOR	0201 0079 ***					500
A9-FC COLOR	0201 0009 ***	14 - 23	50	14	1,3	100
A10-FD COLOR	0201 0080 ***					500
A10-FC COLOR	0201 0010 ***	17 - 28	50	17	1,3	100

* thick-walled sleeves.



Standard colour: 060 yellow/green

A0-C BICOL	0201 0001 060	1,25 - 2	20	1,25	0,5	100
A1-C BICOL	0201 0002 060	1,75 - 3,5	20	1,75	0,5	100
A1bis-C BICOL	0201 0003 060	2,4 - 4,5	20	2,4	0,6	100
A2-C BICOL	0201 0004 060	3 - 6	25	3	0,6	100
A3-C BICOL	0201 0005 060	5 - 9	25	5	0,7	100
A4-C BICOL	0201 0006 060	7,5 - 12	30	7,5	0,8	100
A5-C BICOL	0201 0007 060	10 - 15	35	10	0,9	100
A8-C BICOL	0201 0008 060	12 - 20	50	12	1,2	100
A9-C BICOL	0201 0009 060	14 - 23	50	14	1,3	100
A10-C BICOL	0201 0010 060	17 - 28	50	17	1,3	100



HELAVIA® sleeves - British norm
in polychloroprene rubber
for SES® sleeve process



HELAVIA®



HELAVIA

Material: polychloroprene rubber
 quality 3490

Operating temperatures: -30 to +90°C (+110°C short time)

Hardness shore A: 40 ±5

Tensile strength at break: >6,5 MPa

Ultimate elongation: >500 %

Tear strength: >10 kN/m

Dielectric strength: >13 kV/mm

Volume resistivity: 4x10⁹ Ω.cm

Flame resistance: V0 UL94

Specifications: British norm BS 3858 type 1C

Lubricated sleeves: all types

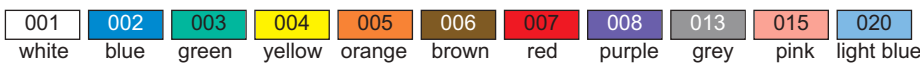


Standard colour: **010**
 black

type	article number length 20 mm	article number length 25 mm	for wires Ø (mm)	Ø int. mm	wall mm	
A0a-M	0201 0611 010	0201 0612 010	1,2 - 2,5	1,2	0,75	1000
A0a-C	0201 0601 010	0201 0602 010				100
A0bis-M	0201 0613 010	0201 0614 010	1,5 - 3	1,5	0,75	1000
A0bis-C	0201 0603 010	0201 0604 010				100
A1a-M	0201 0615 010	0201 0616 010	2 - 4	2	0,75	1000
A1a-C	0201 0605 010	0201 0606 010				100
A2a-M	0201 0617 010	0201 0618 010	3 - 6	3	0,75	1000
A2a-C	0201 0607 010	0201 0608 010				100
A3a-M	-	0201 0619 010	5 - 10	5	1	1000
A3a-C	-	0201 0609 010				100



Standard colours:



Example for order:

code group	detail article	code colours
02010	xxxx	xxxx

type	article number length 20 mm	article number length 25 mm	for wires Ø (mm)	Ø int. mm	wall mm	
A0a-M COLOR	0201 0611 ***	0201 0612 ***	1,2 - 2,5	1,2	0,75	1000
A0a-C COLOR	0201 0601 ***	0201 0602 ***				100
A0bis-M COLOR	0201 0613 ***	0201 0614 ***	1,5 - 3	1,5	0,75	1000
A0bis-C COLOR	0201 0603 ***	0201 0604 ***				100
A1a-M COLOR	0201 0615 ***	0201 0616 ***	2 - 4	2	0,75	1000
A1a-C COLOR	0201 0605 ***	0201 0606 ***				100
A2a-M COLOR	0201 0617 ***	0201 0618 ***	3 - 6	3	0,75	1000
A2a-C COLOR	0201 0607 ***	0201 0608 ***				100
A3a-M COLOR	-	0201 0619 ***	5 - 10	5	1	1000
A3a-C COLOR	-	0201 0609 ***				100



HELAVIA® sleeves in special lengths in polychloroprene rubber for SES® sleeves process



HELAVIA®



HELAVIA

Material:	polychloroprene rubber quality 3490
Operating temperatures:	-30 to +90°C (+110°C short time)
Hardness shore A:	40 ±5
Tensile strength at break:	>6,5 MPa
Ultimate elongation:	>500 %
Tear strength:	>10 kN/m
Dielectric strength:	>13 kV/mm
Volume resistivity:	4x10 ⁹ Ω.cm
Flame resistance:	V0 UL94
Lubricated sleeves:	until type A4



Standard colour: 010
black



type	for wires Ø (mm)	wall thickness mm	article number							
			length 10 mm	length 15 mm	length 20 mm	length 25 mm	length 30 mm	length 40 mm	length 50 mm	
A0-SP	1,25 - 2	0,5	0201 0101 010	0201 0113 010	0201 0071 010	0201 0134 010	0201 0143 010	0201 0153 010	0201 0165 010	1000
A1-SP	1,75 - 3,5	0,5	0201 0102 010	0201 0114 010	0201 0072 010	0201 0135 010	0201 0144 010	0201 0154 010	0201 0166 010	1000
A1bis-SP	2,4 - 4,5	0,6	0201 0103 010	0201 0115 010	0201 0073 010	0201 0136 010	0201 0145 010	0201 0155 010	0201 0167 010	1000
A1K*-SP	2,5 - 5,5	0,9	0201 0111 010	0201 0123 010	0201 0132 010	0201 0081 010	0201 0152 010	0201 0163 010	0201 0172 010	1000
A2-SP	3 - 6	0,6	0201 0104 010	0201 0116 010	0201 0125 010	0201 0074 010	0201 0146 010	0201 0156 010	0201 0168 010	1000
A3-SP	5 - 9	0,7	0201 0105 010	0201 0117 010	0201 0126 010	0201 0075 010	0201 0147 010	0201 0157 010	0201 0169 010	1000
A4-SP	7,5 - 12	0,8	0201 0106 010	0201 0118 010	0201 0127 010	0201 0137 010	0201 0076 010	0201 0158 010	0201 0170 010	1000
A5-SP	10 - 15	0,9	0201 0107 010	0201 0119 010	0201 0128 010	0201 0138 010	0201 0148 010	0201 0159 010	0201 0171 010	500
A8-SP	12 - 20	1,2	0201 0108 010	0201 0120 010	0201 0129 010	0201 0139 010	0201 0149 010	0201 0160 010	0201 0078 010	500

* thick-walled sleeves.

Other lengths and colours: please consult us.
Minimum order: 1 complete coil (see page A2/1-01).



SILAVIA standard sleeves in silicone rubber for high temperatures for SES® sleeves process



SILAVIA



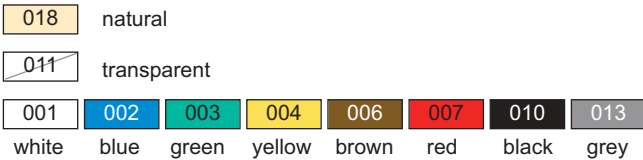
SILAVIA

Material: silicone rubber quality 2412
Operating temperatures: -80 to +200°C (+250°C short time)
Hardness shore A: 40 ±5
Tensile strength at break: >7 MPa
Ultimate elongation: >600 %
Tear strength: >20 kN/m
Dielectric strength: 18 kV/mm
Volume resistivity: 10¹⁵ Ω.cm

Lubricated sleeves: until type A4



Standard colours:



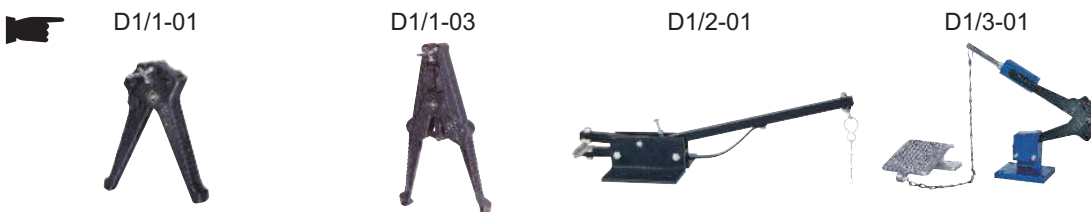
Example for order:

code group	detail article	code colours
0205	0xxx	xxx



type	article number			for wires Ø (mm)	length mm	Ø int. mm	wall thickness mm	
	natural 018	transparent 011	colours xxx					
SILAVIA A0-SC	0205 0001 018	0205 0051 011	0205 0021 ***	1,3 - 1,8	20	1,25	0,5	100
SILAVIA A1-SC	0205 0002 018	0205 0052 011	0205 0022 ***	1,9 - 2,5	20	1,75	0,5	100
SILAVIA A1bis-SC	0205 0003 018	0205 0053 011	0205 0023 ***	2,4 - 3	20	2,4	0,6	100
SILAVIA A1K*-SC	0205 0011 018	0205 0061 011	0205 0031 ***	2,5 - 4	25	2,5	0,9	100
SILAVIA A2-SC	0205 0004 018	0205 0054 011	0205 0024 ***	3 - 4	25	3	0,6	100
SILAVIA A2K*-SC	0205 0012 018	0205 0062 011	0205 0032 ***	4 - 6	30	4	1,2	100
SILAVIA A3-SC	0205 0005 018	0205 0055 011	0205 0025 ***	5 - 7	25	5	0,7	100
SILAVIA A4-SC	0205 0006 018	0205 0056 011	0205 0026 ***	7,5 - 9	30	7,5	0,8	100
SILAVIA A5-SC	0205 0007 018	0205 0057 011	0205 0027 ***	10 - 13	35	10	1	100
SILAVIA A8-SC	0205 0008 018	0205 0058 011	0205 0028 ***	13 - 16	50	12	1,2	100
SILAVIA A9-SC	0205 0009 018	0205 0059 011	0205 0029 ***	15 - 19	50	14	1,3	100
SILAVIA A10-SC	0205 0010 018	0205 0060 011	0205 0030 ***	18 - 25	50	17	1,3	100

* thick-walled sleeves.



Lubricant for sleeves HELAVIA® and SILAVIA



LUB2



LUB2


Material: made of vaseline oil
Taste (+25°C): without

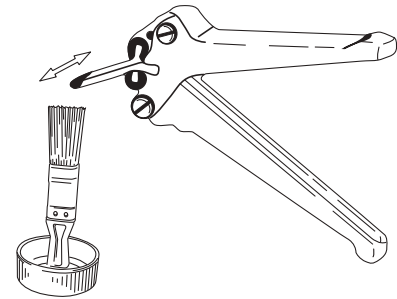
Specifications: special SES-STERLING product for an easier application of HELAVIA and SILAVIA sleeves. It does not affect elastomers and rubbers.

Thanks to its brush in the cap, LUB2 allows the minimum quantity of lubricant necessary to apply sleeves easily from the expander prongs.

It is an odourless, tasteless, vaseline oil-based product that can be used in the proximity of foodstuffs and is not toxic.



type	artide number	
LUB2 can of 0,25 L with brush	0707 0001 000	1



In order to use our SES **sleeving and sleeves** efficiently, a series of **expanders and applications aids** are available.

The illustrations below indicate this versatile range.

If you need more details, please see "**TOOLS**" chapter of this catalogue, Group D1.



sleeve expanders serie KP
D1/1-01



sleeve expanders series KY
D1/1-03



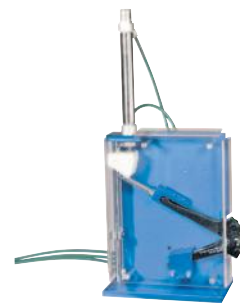
sleeve expanders series KN and KNS
D1/2-01



bench mounted sleeving tool
D1/2-01



bench mounted
sleeving tool with foot pedal
D1/3-01



pneumatically controlled
sleeve expander
D1/3-01



A2

Elastomer sleeving





SES-STERLING specialise in manufacturing high elasticity sleeving.
The standard programme consists of HELAVIA polychloroprene tubing and SILAVIA silicone tubing.
Sleeving to your specific dimensions can be supplied.
These sleeving provide elastic and mechanical performance and a good resistance to aging.

Page

- A2/1 HELAVIA sleeving in polychloroprene rubber with or without lubricant
black and colours
- HELAVIA sleeving to British standard in polychloreprene rubber
black and colours

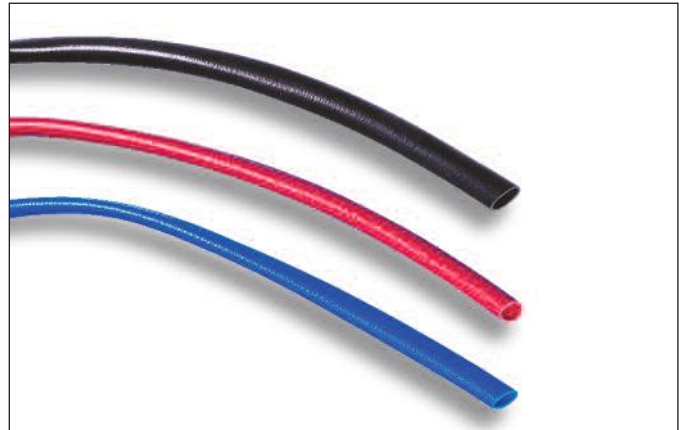


- A2/2 SILAVIA sleeveins in silicone rubber with or without lubricant
black and colours



HELAVIA

Material:	polychloroprene rubber quality 3490
Operating temperatures:	-30 to +90°C (+110°C short time)
Shore hardness A:	40 ±5
Tensile strength at break:	>6,5 MPa
Ultimate elongation:	>500 %
Tear strength:	>10 kN/m
Dielectric strength:	>13 kV/mm
Volume resistivity:	4x10 ⁹ Ω.cm
Flame resistance:	V0 UL94
Application:	mechanical protection and dielectric insulating
Lubricated sleeving:	until type A4




Standard colours:

010 black											
<table border="0"> <tr> <td>001 white</td> <td>002 blue</td> <td>003 green</td> <td>004 yellow</td> <td>005 orange</td> <td>006 brown</td> <td>007 red</td> <td>008 purple</td> <td>013 grey</td> <td>015 pink</td> <td>020 light blue</td> </tr> </table>	001 white	002 blue	003 green	004 yellow	005 orange	006 brown	007 red	008 purple	013 grey	015 pink	020 light blue
001 white	002 blue	003 green	004 yellow	005 orange	006 brown	007 red	008 purple	013 grey	015 pink	020 light blue	
060 yellow/green											

Example for order:

code group	detail article	code colours
0210	00xxx	xxx

type	article number			dimensions (mm)			 m
	black 010	colours xxx	yellow/green 060	for cable Ø	int. Ø	wall thickness	
HELAVIA A0	0210 0001 010	0210 0051 ***	0213 0101 060	1,25 - 2	1,2	0,5	100
HELAVIA A1	0210 0002 010	0210 0052 ***	0213 0102 060	1,75 - 3,5	1,75	0,5	100
HELAVIA A1bis	0210 0003 010	0210 0053 ***	0213 0103 060	2,4 - 4,5	2,4	0,6	100
HELAVIA A1K*	0210 0007 010	0210 0057 ***	-	2,5 - 5,5	2,5	0,9	100
HELAVIA A2	0210 0004 010	0210 0054 ***	0213 0104 060	3 - 6	3	0,6	100
HELAVIA A2K*	0210 0008 010	0210 0058 ***	-	4 - 8	4	1,2	100
HELAVIA A3	0210 0005 010	0210 0055 ***	0213 0105 060	5 - 9	5	0,7	100
HELAVIA A4	0210 0006 010	0210 0056 ***	0213 0106 060	7,5 - 12	7,5	0,8	100
HELAVIA A5	0210 0009 010	0210 0059 ***	0213 0107 060	10 - 15	10	0,9	50
HELAVIA A8	0210 0010 010	0210 0060 ***	0213 0108 060	12 - 20	12	1,2	50
HELAVIA A9	0210 0011 010	0210 0061 ***	0213 0109 060	14 - 23	14	1,3	50
HELAVIA A10	0210 0012 010	0210 0062 ***	0213 0110 060	17 - 28	17	1,3	40

* thick-walled sleeving


• HELAVIA sleeving to British Standard BS3858 type 1C

Standard colours:

010 black											
<table border="0"> <tr> <td>001 white</td> <td>002 blue</td> <td>003 green</td> <td>004 yellow</td> <td>005 orange</td> <td>006 brown</td> <td>007 red</td> <td>008 purple</td> <td>013 grey</td> <td>015 pink</td> <td>020 light blue</td> </tr> </table>	001 white	002 blue	003 green	004 yellow	005 orange	006 brown	007 red	008 purple	013 grey	015 pink	020 light blue
001 white	002 blue	003 green	004 yellow	005 orange	006 brown	007 red	008 purple	013 grey	015 pink	020 light blue	

Example for order:

code group	detail article	code colours
0206	00xxx	xxx

type	article number		dimensions (mm)			 m
	black 010	colours xxx	for cable Ø	int. Ø	wall thickness	
HELAVIA A0a	0206 0601 010	0206 0651 ***	1,2 - 2,5	1,2	0,75	100
HELAVIA A0bis	0206 0602 010	0206 0652 ***	1,5 - 3	1,5	0,75	100
HELAVIA A1a	0206 0603 010	0206 0653 ***	2 - 4	2	0,75	100
HELAVIA A2a	0206 0604 010	0206 0654 ***	3 - 6	3	0,75	100
HELAVIA A3a	0206 0605 010	0206 0655 ***	5 - 10	5	1	100

SILAVIA sleeving silicone rubber for very high temperatures



SILAVIA



SILAVIA

Material:	silicone rubber quality 2412
Operating temperatures:	-80 to +200°C (+250°C short time)
Shore hardness A:	40 ±5
Tensile strength at break:	>7 MPa
Ultimate elongation:	>600 %
Tear strength:	>20 kN/m
Dielectric strength:	>18 kV/mm
Volume resistivity:	10 ¹⁵ Ω.cm
Specifications:	mechanical protection and dielectric isolation for high temperatures.
Lubricated sleeves:	until type A4




Standard colours:

018	natural
011	transparent
001	white
002	blue
003	green
004	yellow
006	brown
007	red
010	black
013	grey

Example for order:

code group	detail article	code colours
0211	0xxx	xxx

type	article number			dimensions (mm)			 m
	natural 018	transparent 011	color xxx	for cable Ø	int. Ø	wall thickness	
SILAVIA A0	0211 0001 018	0211 0021 011	0211 0051 ***	1,3 - 1,8	1,25	0,5	100
SILAVIA A1	0211 0002 018	0211 0022 011	0211 0052 ***	1,9 - 2,5	1,75	0,5	100
SILAVIA A1bis	0211 0003 018	0211 0023 011	0211 0053 ***	2,4 - 3	2,4	0,6	100
SILAVIA A1K*	0211 0013 018	0211 0031 011	0211 0061 ***	2,5 - 4	2,5	0,9	100
SILAVIA A2	0211 0004 018	0211 0024 011	0211 0054 ***	3 - 4	3	0,6	100
SILAVIA A2K*	0211 0014 018	0211 0032 011	0211 0062 ***	4 - 6	4	1,2	100
SILAVIA A3	0211 0005 018	0211 0025 011	0211 0055 ***	5 - 7	5	0,7	100
SILAVIA A4	0211 0006 018	0211 0026 011	0211 0056 ***	7,5 - 9	7,5	0,8	70
SILAVIA A5	0211 0009 018	0211 0027 011	0211 0057 ***	10 - 13	10	1	40
SILAVIA A8	0211 0010 018	0211 0028 011	0211 0058 ***	13 - 16	12	1,2	35
SILAVIA A9	0211 0011 018	0211 0029 011	0211 0059 ***	15 - 19	14	1,3	30
SILAVIA A10	0211 0012 018	0211 0030 011	0211 0060 ***	18 - 25	17	1,3	30

* thick-walled sleeving