

Servo Cables



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Motor connection, feedback and transmission cables with UL recognition, CSA approval

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You will find halogen-free motor connection cables 0.6/1 kV in chapter A

Applications

■ Applications combined motor connection cables

These flexible motor connection cables are used for the power supply of motors. Depending on the construction type supply and control conductors are possible. The cables are suitable for high mechanical demands in dry, damp and wet conditions as well as at low temperatures.

Exemplary applications:

SL 801 C SL 841 C SL 871 C SL 863 C	Highly flexible cable track applications in industries with intelligent servo drives, e.g. automation technologies, machine construction, construction of industrial robots and plants, motive power, control and manufacturing engineering, in handling systems, car manufacturing industry, in cable tracks on wood-working centres, colour coding acc. to DESINA
SL 806 C	Flexible applications in industries with intelligent servo drives, e.g. automation technologies, machine construction, construction of industrial robots and plants, motive power, control and manufacturing engineering, in handling systems, car manufacturing industry, in engineered machining centres, optimised combination of supply and control cores in order to supply energy for drives and their temperature monitor respectively for the brake to stop
SL 875 C	All-in-one cable solution with integrated elements for digital signal feedback

C
3

■ Applications motor feedback and transmission cables

Feedback cables are used for controlling motor speed and for giving feedback values. Transmission cables produce transmit control pulses for positioning and procedure characteristics, e.g. connection of speedo, brake and pulse generators.

Exemplary applications:

SL 802 C SL 803 C SL 839 C SL 842 C SL 843 C SL 807 C SL 808 C	Highly flexible, mobile connection cables for e.g. speedo, brake, temperature control in motors, for continuously flexible applications in automation technology, control and production engineering, in cable tracks on wood-working machines, machine and industrial plant construction, even with high mechanical demands and in dry, damp and wet conditions, as well as at low temperatures flexible connection cables e.g. for speedo, brake, temperature control in motors, for continuously flexible applications in automation technology, control and product engineering
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■ Applications motor connection cables for DNC* motors 0.6/1 kV

These cables are suitable for the fixed installation and flexible use e.g. in machine and industrial plant construction with average mechanical demand in dry, damp and wet conditions.

Exemplary applications:

SL 810 SL 811 SL 820	Automation technology, control and product engineering, machine and industrial plant construction, motor construction on drive systems
SL 812 C SL 813 C SL 851 C	Automation technology, control and product engineering, machine and industrial plant construction, motor construction, on drive systems, power supply cable between frequency converter and servo motor
SL 823 C SL 833 C SL 860 C SL 834 C	Industries with intelligent servo drives, e.g. automation technology, motive power, control and production engineering, handling systems, car manufacturing industry, cable tracks

*three-phase shunt motor

SAB Servo cables are particularly applicable on Siemens and Indramat drives and controls.

Applications

■ Applications motor connection cables for DNC* motors on frequency converters U^{1.7} kV

These cables are to be used for power wiring at frequency converters, speed changeable motors, industrial drives and especially if increased EMC characteristics are required in various areas of industry.

The cables can be used at average mechanical stress for fixed installations as well as flexible applications without tensile stress and without restricted movement without forced movement in dry, damp or wet conditions and in explosive proof areas. They are generally not to be used for outdoor applications. However, in rare cases it is permissible if the cables are fixed and protected against solar radiation.

Exemplary applications:

SL 851 C

Climate technologies, food industry, paper and steel production, metal finishing and printing machine engineering. Due to the low mutual capacitance this cable allows a more efficient power transfer than conventional PVC cables. Electromagnetic influences are reduced as low as possible by the low surface transfer impedance

*three-phase shunt motor









■ DESINA - DistributEd and Standardized INstAllation technology

DESINA is an extensive concept for standardizing and distributing fluid and electric installations of machines and plants. A co-operation of machine construction, car manufacturing and supply industries has, furthermore, set up the specification of necessary components.

DESINA applies already existing solutions such as open bus systems, industrial standards for connectors, etc. By standardizing components, interfaces and connecting systems, e.g. an optical fibre copper hybrid cable, most varying systems can be realised on a physical basis.

The following sheath colours are defined as a function code:

	orange	RAL 2003:	servo cable, screened
	green	RAL 6018:	measuring systems, screened
	violet	RAL 4001:	field bus, hybrid cables
	yellow	RAL 1021:	sensor/actuator cable, unscreened 4 x 0.34 mm ² copper
	black	RAL 9005:	power cable, unscreened
	grey	RAL 7001:	24 V control cable, unscreened

The sheaths of all cables are to be resistant against industrial lubricants.

■ You will find further information about the safe application of cables on pages N/31-40

SERVO CABLES

Selection table

		Cable type																						
		SL 811	SL 813 C	SL 820	SL 823 C	SL 801 C	SL 806 C	SL 810	SL 812 C	SL 851 C	SL 802 C	SL 803 C	SL 807 C	SL 808 C	SL 860 C	SL 863 C	SL 834 C	SL 871 C	SL 875 C	SL 841 C	SL 833 C	SL 842 C	SL 843 C	SL 839 C
Application	Combined motor connection cable					•	•									•		•	•	•				
	Feedback cable										•		•										•	
	Transmission cable											•		•										•
	Motor connection cable	•	•	•	•				•	•	•					•		•				•		•
	Motor connection cable for frequency converters	•	•	•	•				•	•	•							•				•		•
Temperature range fixed laying*	Screened		•		•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	+ 90 °C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	+ 70 °C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	- 30 °C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	- 40 °C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	- 50 °C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Voltage	Nominal voltage supply cores U ₀ /U 0.6/1 kV	•	•	•	•	•	•		•	•					•	•	•	•	•	•	•	•	•	
	Peak operating voltage max. 30 V											•						•			•		•	
	Peak operating voltage max. 350 V											•						•			•		•	
	Peak operating voltage max. 500 V						•	•			•		•					•			•		•	
Standards	UL acc. to AWM Style														•	•	•	•	•	•	•	•	•	
	CSA acc. to AWM I/II/A/B																	•	•	•	•	•	•	
	DESINA colours		•		•	•						•			•			•	•	•	•	•	•	
Characteristics	Halogen-free			•	•	•					•	•					•	•	•	•	•	•	•	
	Labs uncritical**			•	•	•					•	•					•	•	•	•	•	•	•	
	Very good oil resistance acc. to DIN VDE	•	•	•	•	•					•	•				•	•	•	•	•	•	•	•	
	Oil resistance acc. to internal standard						•	•	•	•			•	•							•	•	•	
	Outer sheath surface: low adhesion	•	•	•	•	•					•	•									•	•	•	
	Good resistance against acids, alkalines, solvents, hydraulic liquids etc.	•	•	•	•	•					•	•						•	•	•	•	•	•	
Low capacity construction															•	•	•	•	•					



**Labs = enamel moisturing interfering substances

*The temperature range for flexible application is mentioned on the corresponding catalogue page

SL 811 PUR motor connection cable with PVC cores 0.6/1 kV

BRÖCKSKES · D-VIERSEN · SL 811 0,6/1 kV 4 x 1,5 mm² CE



Marking for SL 811 08110415:

SAB BRÖCKSKES · D-VIERSEN · SL 811 0,6/1 kV 4 x 1,5 mm² CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Colour code:	black cores with consecutive numbers acc. to EN 50334 and a green-yellow earth wire
Stranding:	in layers
Wrapping:	non-woven tape
Sheath material:	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Sheath colour:	grey (RAL 7000)

Outstanding features:

- flexible
- rugged sheath
- oil resistant
- EAC approval

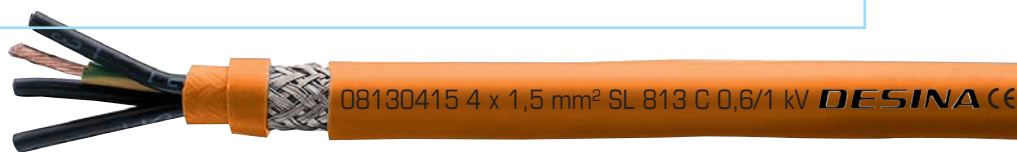
Technical data:

Nominal voltage:	U ₀ /U 0.6/1 kV
Testing voltage U:	4000 V
Min. bending radius	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<i>continuously flexible:</i>	10 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range	
<i>fixed laying:</i>	-40/+70 °C
<i>flexible application:</i>	+5/+70 °C
Oil resistance:	very good - PUR TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17

item no.	no. of cores x cross section n x mm ²	AWG	largest single wire ø mm	outer-ø ± 5 % mm	copper figure kg/km	cable weight ≈ kg/km
08110415	4 x 1,50	16 / 4c	0,16	9,3	57,6	125
08110425	4 x 2,50	14 / 4c	0,16	11,1	96,0	191
08110440	4 x 4,00	12 / 4c	0,16	12,9	153,6	268
08110460	4 x 6,00	10 / 4c	0,21	14,7	230,4	356
08110470	4 x 10,00	8 / 4c	0,21	18,5	384,0	601
08110480	4 x 16,00	6 / 4c	0,21	21,9	614,4	862
08110490	4 x 25,00	4 / 4c	0,21	26,2	960,0	1297
08110495	4 x 35,00	2 / 4c	0,21	29,5	1344,0	1751
08110496	4 x 50,00	1 / 4c	0,31	35,0	1920,0	2423
08110515	5 x 1,50	16 / 5c	0,16	10,6	72,0	154
08110525	5 x 2,50	14 / 5c	0,16	12,8	120,0	230
08110540	5 x 4,00	12 / 5c	0,16	14,2	192,0	317
08110560	5 x 6,00	10 / 5c	0,21	16,7	288,0	449
08110570	5 x 10,00	8 / 5c	0,21	20,4	480,0	739
08110580	5 x 16,00	6 / 5c	0,21	24,6	768,0	1079
08110590	5 x 25,00	4 / 5c	0,21	28,9	1200,0	1597

Other dimensions and colours are possible on request.

SL 813 C PUR motor connection cable with PVC cores and overall copper screen 0.6/1 kV



Marking for SL 813 C 08130415:
SAB BRÖCKSKES · D-VIERSEN · 08130415 4 x 1,5 mm² SL 813 C 0,6/1 kV **DESINA** C

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Colour code:	black cores with consecutive numbers acc. to EN 50334 and a green-yellow earth wire
Stranding:	in layers
Inner sheath:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Sheath material:	PUR, TPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Sheath colour:	orange (RAL 2003)

Outstanding features:

- very good EMC characteristics
- flexible
- rugged sheath
- oil resistant
- EAC approval
- **DESINA®** colours (see page C/4)

Technical data:

Nominal voltage:	U ₀ /U 0.6/1 kV
Testing voltage U:	4000 V core/screen 2000 V
Min. bending radius	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<i>continuously flexible:</i>	12 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range	
<i>fixed laying:</i>	-40/+70 °C
<i>flexible application:</i>	+5/+70 °C
Oil resistance:	very good - PUR TPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17

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DESINA

item no.	no. of cores x cross section n x mm ²	AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
08130415	4 x 1,50	16 / 4c	0,16	12,4	113,8	228
08130425	4 x 2,50	14 / 4c	0,16	15,4	165,9	345
08130440	4 x 4,00	12 / 4c	0,16	17,0	257,3	449
08130460	4 x 6,00	10 / 4c	0,21	19,2	346,3	594
08130470	4 x 10,00	8 / 4c	0,21	23,0	524,5	877
08130480	4 x 16,00	6 / 4c	0,21	26,4	777,0	1242
08130490	4 x 25,00	4 / 4c	0,21	30,7	1156,8	1763
08130495	4 x 35,00	2 / 4c	0,21	34,0	1574,3	2258
08130496	4 x 50,00	1 / 4c	0,31	39,3	2177,9	3076
08130515	5 x 1,50	16 / 5c	0,16	13,7	139,4	286
08130525	5 x 2,50	14 / 5c	0,16	16,7	222,8	420
08130540	5 x 4,00	12 / 5c	0,16	18,7	306,5	575
08130560	5 x 6,00	10 / 5c	0,21	20,8	422,1	733
08130570	5 x 10,00	8 / 5c	0,21	25,3	638,2	1097
08130580	5 x 16,00	6 / 5c	0,21	28,7	955,6	1524
08130590	5 x 25,00	4 / 5c	0,21	33,4	1427,1	2172
08130595	5 x 35,00	2 / 5c	0,21	37,4	1927,5	2748

Other dimensions and colours are possible on request.



for DNC motors
on frequency
converters

SL 820 PUR motor connection cable with TPE cores 0.6/1 kV

BRÖCKSKES · D-VIERSEN · SL 820 0,6/1 kV 4 x 1,5 mm² CE



Marking for SL 820 C 08200415:
SAB BRÖCKSKES · D-VIERSEN · SL 820 0,6/1 kV 4 x 1,5 mm² CE

Construction:

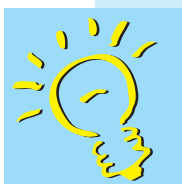
Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	TPE
Colour code:	black cores with consecutive numbers acc. to EN 50334 and a green-yellow earth wire
Stranding:	in layers
Wrapping:	non-woven tape
Sheath material:	PUR, TPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Sheath colour:	orange (RAL 2003)

Technical data:

Nominal voltage:	U ₀ /U 0.6/1 kV
Testing voltage U:	4000 V
Min. bending radius	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<i>continuously flexible:</i>	10 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range	
<i>fixed laying:</i>	-50/+90 °C
<i>flexible application:</i>	-40/+90 °C
Oil resistance:	very good - TPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17

Outstanding features:

- very high flexibility
- suitable for cable tracks
- oil resistant
- very long service life
- adhesion-free installation
- halogen-free
- labs uncritical
(labs = enamel moisturing interfering substances)
- flexible at low temperatures
- EAC approval

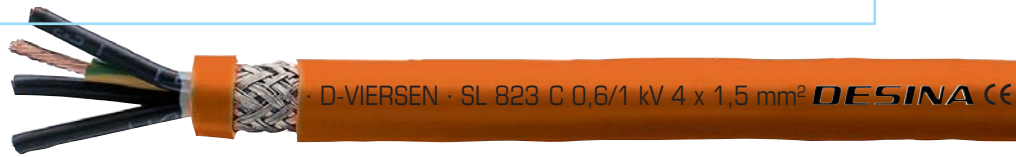


for DNC motors
on frequency
converters

item no.	no. of cores x cross section n x mm ²	AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
08200415	4 x 1,50	16 / 4c	0,16	8,5	57,6	102
08200515	5 x 1,50	16 / 5c	0,16	9,3	72,0	125
08200425	4 x 2,50	14 / 4c	0,16	10,7	96,0	160
08200525	5 x 2,50	14 / 5c	0,16	11,4	120,0	193
08200440	4 x 4,00	12 / 4c	0,16	12,4	153,6	247
08200540	5 x 4,00	12 / 5c	0,16	13,2	192,0	290
08200460	4 x 6,00	10 / 4c	0,21	15,1	230,4	351
08200560	5 x 6,00	10 / 5c	0,21	16,5	288,0	443
08200470	4 x 10,0	8 / 4c	0,21	17,5	384,0	552
08200570	5 x 10,0	8 / 5c	0,21	19,2	480,0	641
08200480	4 x 16,0	6 / 4c	0,21	21,2	614,4	796
08200580	5 x 16,0	6 / 5c	0,21	23,3	768,0	979
08200490	4 x 25,0	4 / 4c	0,21	24,3	960,0	1161
08200590	5 x 25,0	4 / 5c	0,21	26,8	1200,0	1433
08200495	4 x 35,0	2 / 4c	0,21	28,6	1344,0	1588
08200496	4 x 50,0	1 / 4c	0,31	32,3	1920,0	2212

Other dimensions and colours are possible on request.

SL 823 C PUR motor connection cable with TPE cores and overall copper screen 0.6/1 kV



Marking for SL 823 C 08230415:
SAB BRÖCKSKES · D-VIERSEN · SL 823 C 0,6/1 kV 4 x 1,5 mm² **DESINA** CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	TPE
Colour code:	black cores with consecutive numbers acc. to EN 50334 and a green-yellow earth wire
Stranding:	in layers
Wrapping:	two layers of non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Sheath material:	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Sheath colour:	orange (RAL 2003)

Outstanding features:

- very good EMC characteristics
- very high flexibility
- suitable for cable tracks
- oil resistant
- very long service life
- adhesion-free installation
- halogen-free
- labs uncritical
(labs = enamel moisturing interfering substances)
- flexible at low temperatures
- EAC approval
- DESINA® colours (see page C/4)

Technical data:

Nominal voltage:	U ₀ /U 0.6/1 kV
Testing voltage U:	4000 V core/screen 2000 V
Min. bending radius	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<i>continuously flexible:</i>	12 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range	
<i>fixed laying:</i>	-50/+90 °C
<i>flexible application:</i>	-40/+90 °C
Oil resistance:	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17

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item no.	no. of cores x cross section n x mm ²	AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
08230415	4 x 1,50	16 / 4c	0,16	9,5	95,8	141
08230425	4 x 2,50	14 / 4c	0,16	11,9	147,0	217
08230440	4 x 4,00	12 / 4c	0,16	13,0	210,2	289
08230460	4 x 6,00	10 / 4c	0,21	15,9	300,5	420
08230470	4 x 10,0	8 / 4c	0,21	18,5	489,9	627
08230480	4 x 16,0	6 / 4c	0,21	22,4	751,3	965
08230490	4 x 25,0	4 / 4c	0,21	25,5	1118,2	1363
08230495	4 x 35,0	2 / 4c	0,21	29,5	1533,4	1848
08230496	4 x 50,0	1 / 4c	0,31	34,5	2148,7	2553

Other dimensions and colours are possible on request.



for DNC motors
on frequency
converters

SL 801 C Combined TPE/PUR motor connection cable with overall copper screen 0.6/1 kV

01 C 4 x 0,75 mm² + 2 x (2 x 0,34 mm²) **DESINA** 



Marking for SL 801 C 08010407:

SAB BRÖCKSKES · D-VIERSEN · SL 801 C 4 x 0,75 mm² + 2 x (2 x 0,34 mm²) **DESINA** 

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6 >0,5 mm ² with reference to DIN VDE 0812
Insulation:	TPE
Colour code:	black cores with consecutive numbers acc. to EN 50334; (except 0,34 mm ² = coloured) and a green-yellow earth wire supply cores: U1, V2, W3 and a green-yellow earth wire control cores: BR1 and BR2
from item no. 08011415:	
Stranding:	control cores 0,34 mm ² - 2,5 mm ² twisted to pairs
Screen:	pairs wrapped with Alu-foil, tinned copper braid
Wrapping:	pairs with PETP foil
Stranding:	screened control pairs and supply cores twisted together in layers
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Sheath material:	PUR, TPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Sheath colour:	orange (RAL 2003)

Technical data:

Nominal voltage:	supply cores	U ₀ /U 0.6/1 kV
Peak operating voltage:	control cores	max. 500 V
Testing voltage U:	supply cores	4000 V
	control cores	max. 1500 V
Min. bending radius		
<i>fixed laying:</i>		5 x d
<i>flexible application:</i>		10 x d
<i>continuously flexible:</i>		12 x d
Radiation resistance:		5x10 ⁷ cJ/kg
Temperature range		
<i>fixed laying:</i>		-50/+90 °C
<i>flexible application:</i>		-40/+90 °C
Oil resistance:		very good - TPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:		good against acids, alkalines, solvents, hydraulic liquids etc.
Weather resistance:		very good
Absence of harmful substances:		acc. to RoHS directive of the European Union see page N/17

Outstanding features:

- very good EMC characteristics
- long service life
- adhesion-free installation
- high flexibility
- halogen-free
- labs uncritical
(labs = enamel moisturing interfering substances)
- flexible at low temperatures
- EAC approval
- **DESINA®** colours (see page C/4)



Cable harnessing possible on request

item no.	dimensions	AWG		largest single wire ø mm	outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
		supply cores	control cores (pairs)				
08010407	4 x 0,75 + 2 x (2 x 0,34)	19 / 4c	22 / 2pr	0,16/0,11	10,5 ± 0,5	115,5	160
08010410	4 x 1,00 + 2 x (2 x 0,75)	18 / 4c	19 / 2pr	0,16	12,0 ± 0,5	154,2	209
08010415	4 x 1,50 + 2 x (2 x 0,75)	16 / 4c	19 / 2pr	0,16	12,2 ± 0,5	174,3	233
08010425	4 x 2,50 + 2 x (2 x 1,00)	14 / 4c	18 / 2pr	0,16	15,0 ± 0,8	236,8	312
08010441	4 x 4,00 + (2 x 1,00) + (2 x 1,50)	12 / 4c	18 / 1pr + 16 / 1pr	0,16	17,8 ± 0,6	349,8	463
08010461	4 x 6,00 + (2 x 1,00) + (2 x 1,50)	10 / 4c	18 / 1pr + 16 / 1pr	0,21/0,16	18,6 ± 0,8	437,6	580
08010471	4 x 10,00 + (2 x 1,00) + (2 x 1,50)	8 / 4c	18 / 1pr + 16 / 1pr	0,21/0,16	22,5 ± 1,0	613,5	792
08010485	4 x 16,00 + 2 x (2 x 1,50)	6 / 4c	16 / 2pr	0,21/0,16	27,6 ± 0,8	880,6	1130
08010490	4 x 25,00 + 2 x (2 x 1,50)	4 / 4c	16 / 2pr	0,21/0,16	28,0 ± 1,0	1237,0	1507
08010495	4 x 35,00 + 2 x (2 x 1,50)	2 / 4c	16 / 2pr	0,21/0,16	32,0 ± 1,0	1647,3	2011
08010496	4 x 50,00 + 2 x (2 x 2,50)	1 / 4c	14 / 2pr	0,21/0,16	38,2 ± 1,0	2324,0	2866
08011415	4 x 1,50 + (2 x 1,50)	16 / 4c	16 / 1pr	0,16	12,5 ± 0,4	161,8	213
08011425	4 x 2,50 + (2 x 1,50)	14 / 4c	16 / 1pr	0,16	13,8 ± 0,4	202,1	266
08011440	4 x 4,00 + (2 x 1,50)	12 / 4c	16 / 1pr	0,16	14,9 ± 0,4	270,4	353
08011460	4 x 6,00 + (2 x 1,50)	10 / 4c	16 / 1pr	0,21/0,16	16,7 ± 1,1	382,5	490
08011470	4 x 10,00 + (2 x 1,50)	8 / 4c	16 / 1pr	0,21/0,16	19,2 ± 1,6	549,4	698
08011480	4 x 16,00 + (2 x 1,50)	6 / 4c	16 / 1pr	0,21/0,16	23,0 ± 1,7	802,2	1008
08011490	4 x 25,00 + (2 x 1,50)	4 / 4c	16 / 1pr	0,21/0,16	26,9 ± 1,0	1171,1	1448
08011495	4 x 35,00 + (2 x 1,50)	2 / 4c	16 / 1pr	0,21/0,16	31,0 ± 1,0	1592,3	2012
08011496	4 x 50,00 + (2 x 1,50)	1 / 4c	16 / 1pr	0,21/0,16	34,8 ± 1,0	2203,3	2695

Other dimensions and colours are possible on request.

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SL 806 C Combined PE/PVC motor connection cable with overall copper screen 0.6/1 kV



D-VIERSEN · SL 806 C 4 x 0,75 mm² + 2 x (2 x 0,34 mm²)

Marking for SL 806 C 08060407:
SAB BRÖCKSKES · D-VIERSEN · SL 806 C 4 x 0,75 mm² + 2 x (2 x 0,34 mm²) CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5 < 0,50 mm ² with reference to DIN VDE 0812
Insulation:	control cores: PE L/MD acc. to VDE 0819 part 103 supply cores: PVC TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Colour code:	black cores with consecutive numbers acc. to EN 50334; (except 0,34 mm ² = coloured) and a green-yellow earth wire
Stranding:	control cores 0,34 mm ² - 1,5 mm ² twisted to pairs
Screen:	pairs wrapped with Alu-foil, tinned copper braid
Wrapping:	pairs with PETP foil
Stranding:	screened control pairs and supply cores twisted together in layers
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Sheath material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Sheath colour:	grey (RAL 7000)

Technical data:

Nominal voltage:	supply cores	U ₀ /U 0.6/1 kV
Peak operating voltage:	control cores	max. 500 V
Testing voltage U:	supply cores	4000 V
	control cores	1500 V
Min. bending radius		
<i>fixed laying:</i>		5 x d
<i>flexible application:</i>		10 x d
Radiation resistance:		8 x 10 ⁷ cJ/kg
Temperature range		
<i>fixed laying:</i>		-30/+70 °C
<i>flexible application:</i>		-5/+70 °C
Oil resistance:		acc. to internal standard, see page N/15
Chem. resistance:		see page N/11
Absence of harmful substances:		acc. to RoHS directive of the European Union see page N/17

C
11

Outstanding features:

- very good EMC characteristics
- high functionality
- space-saving application
- good handling
- EAC approval

item no.	dimensions	AWG		largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
		supply cores	control cores (pairs)				
08060407	4 x 0,75 + 2 x (2 x 0,34)	19 / 4c	22 / 2pr	0,21/0,16	12,7	123,0	205
08060415	4 x 1,50 + 2 x (2 x 0,75)	16 / 4c	19 / 2pr	0,26/0,21	14,0	180,6	274
08060425	4 x 2,50 + 2 x (2 x 0,75)	14 / 4c	19 / 2pr	0,26/0,21	15,4	230,2	346
08060440	4 x 4,00 + (2 x 1,00) + (2 x 1,50)	12 / 4c	18 / 1pr + 16 / 1pr	0,31/0,21/0,26	17,2	349,1	473
08060460	4 x 6,00 + (2 x 1,00) + (2 x 1,50)	10 / 4c	18 / 1pr + 16 / 1pr	0,31/0,21/0,26	19,1	429,3	581
08060470	4 x 10,00 + 2 x (2 x 1,00)	8 / 4c	18 / 2pr	0,41/0,21	22,6	595,9	843
08060480	4 x 16,00 + 2 x (2 x 1,50)	6 / 4c	16 / 2pr	0,41/0,21	27,5	860,0	1197
08060490	4 x 25,00 + 2 x (2 x 1,50)	4 / 4c	16 / 2pr	0,41/0,26	31,5	1254,2	1690
08060495	4 x 35,00 + 2 x (2 x 1,50)	2 / 4c	16 / 2pr	0,41/0,26	35,2	1678,3	2340

Other dimensions and colours are possible on request.

SL 810

PVC motor connection cable 0.6/1 kV

SL 812 C

PVC motor connection cable with overall copper screen 0.6/1 kV



Marking for SL 810 08100415:

SAB BRÖCKSKES · D-VIERSEN · SL 810 0,6/1 kV 4 x 1,5 mm² CE

Marking for SL 812 C 08120415:

SAB BRÖCKSKES · D-VIERSEN · SL 812 C 0,6/1 kV 4 x 1,5 mm² CE

C
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Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Colour code:	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
Stranding:	in layers
Sheath material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Sheath colour:	grey (RAL 7000)
SL 812 C:	PVC inner sheath over the stranding tinned copper braid, PVC outer sheath in grey (RAL 7000)

Technical data:

Nominal voltage:	U ₀ /U 0.6/1 kV	
Testing voltage U:	4000 V	
SL 812 C:	core/screen 2000 V	
Min. bending radius	SL 810	SL 812 C
<i>fixed laying:</i>	4 x d	5 x d
<i>flexible application:</i>	6 x d	10 x d
Radiation resistance:	8 x 10 ⁷ cJ/kg	
Temperature range		
<i>fixed laying:</i>	-40/+70 °C	
<i>flexible application:</i>	+5/+70 °C	
Oil resistance:	acc. to internal standard, see page N/15	
Chem. resistance:	see page N/11	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17	

Outstanding features:

- very good EMC characteristics (SL 812 C)
- high functionality
- good handling
- EAC approval



for DNC motors
on frequency
converters

SL 810

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
08100415	4 x 1,50	0,26	9,6	57,6	142
08100425	4 x 2,50	0,26	11,4	96,0	210
08100440	4 x 4,00	0,31	13,3	153,6	302
08100460	4 x 6,00	0,31	14,9	230,4	407
08100470	4 x 10,0	0,41	20,7	384,0	752
08100480	4 x 16,0	0,41	24,1	614,4	1069
08100490	4 x 25,0	0,41	29,3	960,0	1662
08100495	4 x 35,0	0,41	32,6	1344,0	2197
08100496	4 x 50,0	0,41	37,2	1920,0	3001
08100515	5 x 1,50	0,26	10,9	72,0	182
08100525	5 x 2,50	0,26	12,5	120,0	257
08100540	5 x 4,00	0,31	14,5	192,0	368
08100560	5 x 6,00	0,31	16,3	288,0	497
08100570	5 x 10,0	0,41	22,6	480,0	915
08100580	5 x 16,0	0,41	26,4	768,0	1309
08100590	5 x 25,0	0,41	32,1	1200,0	2039

SL 812 C

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
08120415	4 x 1,50	0,26	12,0	111,7	232
08120425	4 x 2,50	0,26	13,4	155,7	301
08120440	4 x 4,00	0,31	15,1	250,8	410
08120460	4 x 6,00	0,31	16,7	328,9	521
08120470	4 x 10,0	0,41	20,9	522,2	827
08120480	4 x 16,0	0,41	24,7	783,4	1175
08120490	4 x 25,0	0,41	29,4	1157,7	1743
08120495	4 x 35,0	0,41	33,2	1565,8	2306
08120496	4 x 50,0	0,41	37,5	2165,5	2800
08120515	5 x 1,50	0,26	12,9	131,5	288
08120525	5 x 2,50	0,26	14,7	206,0	366
08120540	5 x 4,00	0,31	16,7	290,5	491
08120560	5 x 6,00	0,31	18,1	399,2	615
08120570	5 x 10,0	0,41	22,8	645,5	890
08120580	5 x 16,0	0,41	27,0	942,8	1393
08120590	5 x 25,0	0,41	32,3	1419,5	2087

Other dimensions and colours are possible on request.

SL 851 C (2YSLCYK-J) PE/PVC motor connection cable with overall copper screen 0.6/1 kV



Marking for SL 851 C 08510415:
SAB BRÖCKSKES · D-VIERSEN · SL 851 C 4 x 1,5 mm² CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	PE L/MD acc. to VDE 0819 part 103
Colour code:	coloured acc. to HD 308 (VDE 0293 part 308) and a green-yellow earth wire
Stranding:	in layers
Wrapping:	Alu-foil
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Sheath material:	special PVC
Sheath colour:	black (RAL 9005)

Outstanding features:

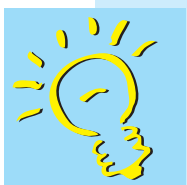
- low surface transfer impedance
- low mutual capacitance
- very good EMC characteristics
- EAC approval

Technical data:

Nominal voltage:	U ₀ /U 0.6/1 kV
Maximum operating voltage:	<i>in three-phase current and single phase current operation:</i> U ₀ /U 0,7/1,2 kV <i>in D.C. current operation:</i> U ₀ /U 0,9/1,8 kV <i>peak value of alternating current:</i> U [^] 1,7 kV
Testing voltage U:	4000 V core/screen 2500 V
Min. bending radius	≤ 12 mm > 12 mm up to ≤ 20 mm > 20 mm
<i>fixed laying:</i>	5 x d 7,5 x d 10 x d
<i>flexible application:</i>	10 x d 15 x d 20 x d
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature range	
<i>fixed laying:</i>	-30/+70 °C
<i>flexible application:</i>	-15/+70 °C
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Oil resistance:	acc. to internal standard, see page N/15
Chem. resistance:	see page N/11
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17

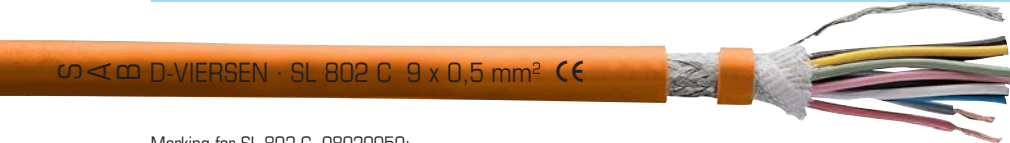
item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
08510415	4 x 1,50	0,26	10,7	107,5	173
08510425	4 x 2,50	0,26	12,3	164,2	242
08510440	4 x 4,00	0,31	14,3	221,2	328
08510460	4 x 6,00	0,31	16,2	330,6	455
08510470	4 x 10,00	0,41	20,0	514,1	711
08510480	4 x 16,00	0,41	25,7	768,6	1111
08510490	4 x 25,00	0,41	30,3	1228,2	1684
08510495	4 x 35,00	0,41	34,2	1624,7	2218
08510496	4 x 50,00	0,41	37,0	2225,1	2710

Other dimensions and colours are possible on request.



for DNC motors
on frequency
converters
U[^] 1,7 kV

SL 802 C TPE/PUR feedback cable with overall copper screen
SL 803 C TPE/PUR transmission cable with overall copper screen



Marking for SL 802 C 08020050:
 SAB BRÖCKSKES · D-VIERSEN · SL 802 C 9 x 0,5 mm² CE



Marking for SL 803 C 08030112:
 SAB BRÖCKSKES · D-VIERSEN · SL 803 C 10 x 0,14 mm² + 2 x 0,5 mm² DESINA CE

C
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Construction:

Conductor:	bare copper strands with reference to DIN VDE 0812
Insulation:	TPE
Colour code:	coloured
Stranding SL 802 C:	in layers
SL 803 C:	in layers or pairwise
Screen:	acc. to dimension: pairs with tinned copper wires braided or wrapped
Inner sheath:	TPE
Stranding:	cores/pairs twisted together in layers
Wrapping:	non-woven tape or netting tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Sheath material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Sheath colour:	orange (RAL 2003) or green (RAL 6018)

Technical data:

Peak operating voltage SL 802 C:	max. 500 V
SL 803 C:	max. 350 V
Testing voltage U:	2000 V
Min. bending radius <i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<i>continuously flexible:</i>	12 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range <i>fixed laying:</i>	-50/+90 °C
<i>flexible application:</i>	-40/+90 °C
Oil resistance:	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17

Outstanding features:

- very good EMC characteristics
- very high flexibility
- very long service life
- adhesion-free installation
- oil resistant
- halogen-free
- labs uncritical
(labs = enamel moisturing interfering substances)
- flexible at low temperatures
- EAC approval
- DESINA® colours (see page C/4)



suitable for resolvers and shaft encoders

item no.	dimensions	sheath colour	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
08020050	9 x 0,50	orange	0,16	7,8	66,2	97
08030009	4 x 2 x 0,25 + 2 x 0,50	orange	0,11/0,16	7,8	51,8	81
08030010	4 x 2 x 0,25 + 2 x 1,00	orange	0,11/0,16	7,9	63,3	93
08030160	3 x 2 x 0,25 + 3 x 0,25 + 2 x 1,00	orange	0,11/0,16	7,9	65,8	96
08030040	3 x 2 x 0,25	orange	0,11	6,3	33,2	52
08030060	4 x 2 x 0,14 + (4 x 0,14) D + 4 x 1,00	orange	0,11/0,16	9,7	88,5	135
08030012	4 x 2 x 0,14 + 4 x 0,50	green	0,11/0,16	7,9	54,9	86
08030112	10 x 0,14 + 2 x 0,50	green	0,11/0,16	7,0	44,0	66
08030114	10 x 0,14 + 4 x 0,50	green	0,11/0,16	7,8	55,6	83
08030013	4 x 2 x 0,38 + 4 x 0,50	green	0,11/0,16	8,9	75,9	112
08030020	3 x (2 x 0,14 C) + 2 x 1,00	green	0,11/0,16	8,6	80,6	102
08030022	3 x (2 x 0,14 C) + 2 x (0,50 C)	green	0,11/0,16	8,8	87,6	108
08031050	3 x (2 x 0,14 D) + 4 x 0,14 + 4 x 0,22 + 2 x 0,50	green	0,11	9,5	77,9	121

Other dimensions and colours are possible on request.

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SERVO CABLES

SL 807 C PE/PVC feedback cable with overall copper screen

SL 808 C PE/PVC transmission cable with overall copper screen



Marking for SL 807 C 08070050:
SAB BRÖCKSKES · D-VIERSEN · SL 807 C 9 x 0,5 mm² CE

Marking for SL 808 C 08080112:
SAB BRÖCKSKES · D-VIERSEN · SL 808 C 10 x 0,14 mm² + 2 x 0,5 mm² CE

Construction:

Conductor:	bare copper strands with reference to DIN VDE 0812
Insulation:	PE L/MD acc. to DIN VDE 0819 part 103
Colour code:	coloured
Stranding SL 807 C: SL 808 C:	in layers in layers or pairwise
Screen:	acc. to dimension: pairs screened or wrapped with tinned copper braid
Wrapping:	PETP foil
Stranding:	cores/pairs twisted together in layers
Wrapping:	PETP foil
Screen:	tinned copper braiding
Sheath material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Sheath colour:	grey (RAL 7000)

Technical data:

Peak operating voltage SL 807 C: SL 808 C:	max. 500 V max. 350 V
Testing voltage U:	2000 V
Min. bending radius	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<i>continuously flexible:</i>	12 x d
Radiation resistance:	8×10^7 cJ/kg
Temperature range	
<i>fixed laying:</i>	-30/+70 °C
<i>flexible application:</i>	-5/+70 °C
Oil resistance:	acc. to internal standard, see page N/15
Chem. resistance:	see page N/11
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17

C
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Outstanding features:

- good EMC characteristics
- high functionality
- space-saving application
- good handling
- EAC approval



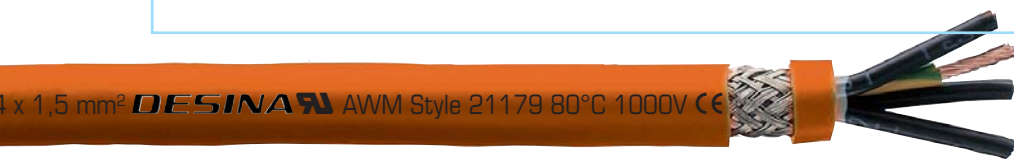
suitable for
resolvers and
shaft encoders

item no.	dimensions	sheath colour	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
motor feedback cable						
08070050	9 x 0,50	grey	0,21	8,4	68,2	107
transmission cable						
08080009	4 x 2 x 0,25 + 2 x 0,50	grey	0,16/0,21	8,1	53,7	82
08080010	4 x 2 x 0,25 + 2 x 1,00	grey	0,16/0,21	8,4	63,3	93
08080012	4 x 2 x 0,14 + 4 x 0,50	grey	0,11/0,21	8,3	54,9	85
08080112	10 x 0,14 + 2 x 0,50	grey	0,11/0,21	7,4	44,0	73
08080114	10 x 0,14 + 4 x 0,50	grey	0,11/0,21	8,0	57,5	92
08080013	4 x 2 x 0,38 + 4 x 0,50	grey	0,21	10,1	78,7	128
08080020	3 x (2 x 0,14 C) + 2 x 1,00	grey	0,11/0,21	8,2	77,9	100
08080022	3 x (2 x 0,14 C) + 2 x (0,50 C)	grey	0,11/0,21	8,2	81,9	100

Other dimensions and colours are possible on request.



SL 860 C Low capacity PVC motor connection cable with overall copper screen 0,6/1 kV



Marking for SL 860 C 08600415:

SAB BRÖCKSKES · D-VIERSEN · 08600415 4 x 1,5 mm² DESINA AWM Style 21179 80°C 1000V CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	special Polymer
Colour code:	black cores with consecutive numbers acc. to EN 50334 and a green-yellow earth wire
Stranding:	specially adjusted layering
Wrapping:	foil
Screen:	tinned copper braiding
Sheath material:	PVC
Sheath colour:	orange (RAL 2003)

Outstanding features:

- UL recognized
- very good EMC characteristics
- very good stripping
- low capacity construction
- very good oil resistance
- EAC approval

Technical data:

Nominal voltage:	U ₀ /U 0.6/1 kV	
Voltage UL:	1000 V	
Testing voltage:	core/core	4000 V
	core/screen	4000 V
Min. bending radius		
<i>fixed laying:</i>	5 x d	
<i>flexible application:</i>	10 x d	
Temperature range	DIN VDE	UL: up to +80 °C
<i>fixed laying:</i>	-30/+70 °C	
<i>flexible application:</i>	+0/+70 °C	
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL FT1	
Oil resistance:	very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17	

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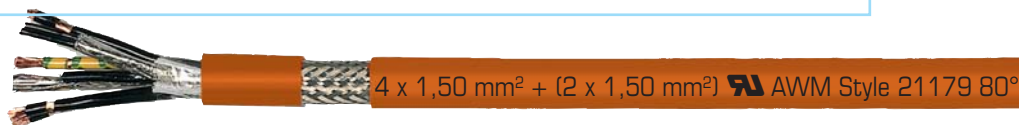
DESINA

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
08600415	4 x 1,50	0,26	8,5	81,3	116
08600425	4 x 2,50	0,26	9,3	125,0	159
08600440	4 x 4,00	0,31	11,9	207,6	262
08600460	4 x 6,00	0,31	13,6	290,2	354
08600470	4 x 10,0	0,41	21,4	493,9	618
08600480	4 x 16,0	0,41	22,2	753,6	919
08600490	4 x 25,0	0,41	26,0	1130,3	1319
08600495	4 x 35,0	0,41	29,3	1538,4	1760
08600496	4 x 50,0	0,41	30,6	2118,8	2430

Other dimensions and colours are possible on request.



SL 863 C Low capacity combined PVC motor connection cable with overall copper screen 0,6/1 kV



Marking for SL 863 C 08631415:
SAB BRÖCKSKES · D-VIERSEN · 08631415 4 x 1,50 mm² + (2 x 1,50 mm²) AWM Style 21179 80°C 1000V CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	special Polymer
Colour code:	black cores with consecutive numbers acc. to EN 50334 and a green-yellow earth wire supply cores: U1, V2, W3 and a green-yellow earth wire control cores: BR1 and BR2
Stranding:	control cores twisted to pair
Screen:	tinned copper braid
Wrapping:	PETP foil
Stranding:	screened control pair and supply cores twisted together in layer
Wrapping:	PETP foil
Screen:	tinned copper braid
Sheath material:	PVC
Sheath colour:	orange (RAL 2003)

Outstanding features:

- UL recognized
- very good EMC characteristics
- very good stripping
- low capacity construction
- very good oil resistance
- EAC approval

Technical data:

Nominal voltage:	supply cores U ₀ /U 0.6/1 kV	
Voltage UL:	supply cores 1000 V	
Peak operating voltage:	control cores max. 350 V	
Voltage UL:	control cores 1000 V	
Testing voltage:	supply cores	core/core 4000 V core/screen 4000 V
	control cores	core/core 2000 V core/screen 2000 V
Min. bending radius		
<i>fixed laying:</i>	5 x d	
<i>flexible application:</i>	10 x d	
Temperature range	DIN VDE	UL: up to +80°C
<i>fixed laying:</i>	-30/+70 °C	
<i>flexible application:</i>	+0/+70 °C	
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL FT1	
Oil resistance:	very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17	

item no.	dimensions	AWG		largest single wire ø mm	outer-ø approx. mm	copper figure kg/km	cable weight ≈ kg/km
		supply cores	control cores (pairs)				
08631415	4 x 1,50 + (2 x 1,50)	16 / 4c	16 / 1pr	0,26/0,26	10,4	133,4	178
08631425	4 x 2,50 + (2 x 1,50)	14 / 4c	16 / 1pr	0,26/0,26	12,2	196,7	256
08631440	4 x 4,00 + (2 x 1,50)	12 / 4c	16 / 1pr	0,31/0,26	13,7	260,0	324
08631460	4 x 6,00 + (2 x 1,50)	10 / 4c	16 / 1pr	0,31/0,26	16,2	374,9	472
08631470	4 x 10,00 + (2 x 1,50)	8 / 4c	16 / 1pr	0,41/0,26	18,9	542,3	672
08631480	4 x 16,00 + (2 x 1,50)	6 / 4c	16 / 1pr	0,41/0,26	23,3	802,2	975
08631490	4 x 25,00 + (2 x 1,50)	4 / 4c	16 / 1pr	0,41/0,26	26,7	1178,5	1363
08631495	4 x 35,00 + (2 x 1,50)	2 / 4c	16 / 1pr	0,41/0,26	29,8	1586,4	1789

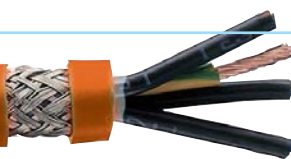
Other dimensions and colours are possible on request.

SIEMENS



SL 834 C Low capacity PUR motor connection cable with overall copper screen 0,6/1 kV

AWM Style 20235 80°C CSA AWM I/II A/B 80°C 1000V FT1 FT2 CE



Marking for SL 834 C 08340415: SAB BBRÖCKSKES · D-VIERSEN · 08340415 4G1,5 mm²

SL 834 C 16 AWG/4c 1000V 08341604 **DESINA** AWM Style 20235 80°C CSA AWM I/II A/B 80°C 1000V FT1 FT2 CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	special Polymer
Colour code:	black cores with consecutive numbers acc. to EN 50334 and a green-yellow earth wire
Stranding:	in layers
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Sheath material:	PUR
Sheath colour:	orange (RAL 2003)

Outstanding features:

- UL recognized, CSA approval
- low capacity construction
- very good EMC characteristics
- halogen-free
- very high flexibility
- suitable for cable tracks
- very good oil resistance
- very long service life
- adhesion-free installation
- labs uncritical
(labs = enamel moisturing interfering substances)
- flexible at low temperatures
- EAC approval
- DESINA® colours (see page C/4)

Technical data:

Nominal voltage:	U ₀ /U 0.6/1 kV	
Voltage UL/CSA:	1000 V	
Testing voltage:	core/core	4000 V
	core/screen	2000 V
Min. bending radius		
<i>fixed laying:</i>	5 x d	
<i>flexible application:</i>	10 x d	
<i>continuously flexible:</i>	12 x d	
Temperature range	DIN VDE	UL/CSA: up to +80 °C
<i>fixed laying:</i>	-50/+70 °C	
<i>flexible application:</i>	-40/+70 °C	
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL FT1, CSA FT1 + FT2	
Oil resistance:	very good - TMPU acc. to DIN EN 50363-10-2	
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17	



for DNC motors on frequency converters

DESINA

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
08340415	4 x 1,50	0,16	9,0	83,5	126
08340425	4 x 2,50	0,16	10,8	142,5	195
08340440	4 x 4,00	0,16	12,4	206,5	270
08340460	4 x 6,00	0,21	15,4	298,1	398
08340470	4 x 10,0	0,21	17,6	494,7	604
08340480	4 x 16,0	0,21	22,7	749,7	953
08340490	4 x 25,0	0,21	25,6	1119,8	1303
08340495	4 x 35,0	0,21	28,9	1532,9	1750
08340496	4 x 50,0	0,31	34,5	2144,5	2486

Other dimensions and colours are possible on request.



SL 871 C Low capacity combined PUR motor connection cable with overall copper screen 0.6/1 kV



20234 80°C 1000V CSA AWM I/II A/B 80°C 1000V FT1 FT2

Marking for SL 871 C 08711425:

SAB BRÖCKSKES · D-VIERSEN · 08711425 SL 871 C 4G2,5 mm² + (2 x 1,5 mm²)

DESINA AWM Style 20234 80°C 1000V CSA AWM I/II A/B 80°C 1000V FT1 FT2 CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6 < 0,50 mm ² with reference to DIN VDE 0812
Insulation:	special polymer
Colour code:	supply cores up to 08710496: black cores with consecutive numbers acc. to EN 50334 and a green-yellow earth wire supply cores from 08711415: core 1: U/L1/C/L+, core 2: V/L2, core 3: W/L3/D/L- and a green-yellow earth wire control cores: with 1 control pair: black, white with 2 control pairs: black with numbers 5, 6 and 7, 8
Stranding:	control cores: twisted to pairs
Wrapping:	control cores: non-woven tape
Screen:	control cores: tinned copper braiding
Wrapping:	control cores: non-woven tape
Stranding:	screened control pairs and supply cores twisted together with fillers in layers
Wrapping:	non-woven tape
Screen:	overall copper screen
Wrapping:	non-woven tape
Sheath material:	TMPU acc. to DIN EN 50363-10-2 with mat surface
Sheath colour:	orange (RAL 2003)

Technical data:

Nominal voltage:	DIN VDE: 0.6/1 kV	
Peak operating voltage:	DIN VDE: max. 350 V	
Voltage UL/CSA:	supply cores	1000 V
	control cores	300 V (from 0871-1415: 1000 V)
Testing voltage:	supply cores	4000 V
	control cores	2000 V
Min. bending radius		
<i>fixed laying:</i>	5 x d	
<i>flexible application:</i>	10 x d	
<i>continuously flexible:</i>	12 x d	
Temperature range	DIN VDE	UL/CSA: up to +80°C
<i>fixed laying:</i>	-50/+90 °C	
<i>flexible application:</i>	-40/+90 °C	
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2, EN 60332-1-2 + UL FT1, CSA FT1, FT2	
Oil resistance:	very good - TMPU acc. to DIN EN 50363-10-2	
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.	
Weather resistance:	very good	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17	

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Outstanding features:

- low capacity construction
- UL recognized, CSA approval
- very good EMC characteristics
- long service life
- adhesion-free installation
- high flexibility
- suitable for cable tracks
- halogen-free
- labs uncritical
(labs = enamel moisturing interfering substances)
- flexible at low temperatures
- DESINA® colours (see page C/4)



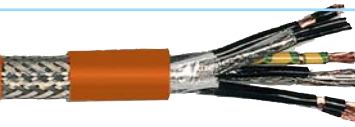
Cable harnessing possible on request

item no.	dimensions	AWG		largest single wire ø mm	outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
		supply cores	control cores (pairs)				
08710407	4 x 0,75 + 2 x (2 x 0,34)	19 / 4c	22 / 2pr	0,16/0,11	11,6 ± 0,5	117,1	168
08710410	4 x 1,00 + 2 x (2 x 0,75)	18 / 4c	19 / 2pr	0,16	11,8 ± 0,5	150,1	201
08710415	4 x 1,50 + 2 x (2 x 0,75)	16 / 4c	19 / 2pr	0,16	12,3 ± 0,5	170,1	224
08710425	4 x 2,50 + 2 x (2 x 1,00)	14 / 4c	18 / 2pr	0,16	14,5 ± 0,8	231,8	320
08710441	4 x 4,00 + (2 x 1,00) + (2 x 1,50)	12 / 4c	18 / 1pr + 16 / 1pr	0,16	17,4 ± 0,6	343,0	458
08710461	4 x 6,00 + (2 x 1,00) + (2 x 1,50)	10 / 4c	18 / 1pr + 16 / 1pr	0,21/0,16	18,9 ± 0,8	432,8	557
08710471	4 x 10,00 + (2 x 1,00) + (2 x 1,50)	8 / 4c	18 / 1pr + 16 / 1pr	0,21/0,16	20,4 ± 1,0	603,7	758
08710485	4 x 16,00 + 2 x (2 x 1,50)	6 / 4c	16 / 2pr	0,21/0,16	26,0 ± 0,8	875,7	1111
08710490	4 x 25,00 + 2 x (2 x 1,50)	4 / 4c	16 / 2pr	0,21/0,16	29,4 ± 0,8	1251,1	1517
08710495	4 x 35,00 + 2 x (2 x 1,50)	2 / 4c	16 / 2pr	0,21/0,16	31,3 ± 0,8	1644,6	1882
08710496	4 x 50,00 + 2 x (2 x 2,50)	1 / 4c	14 / 2pr	0,31/0,16	38,2 ± 0,8	2317,6	2659
08711415	4 x 1,50 + (2 x 1,50)	16 / 4c	16 / 1pr	0,16/0,16	12,0 ± 0,3	159,0	200
08711425	4 x 2,50 + (2 x 1,50)	14 / 4c	16 / 1pr	0,16/0,16	13,0 ± 0,3	204,0	290
08711440	4 x 4,00 + (2 x 1,50)	12 / 4c	16 / 1pr	0,16/0,16	15,0 ± 0,3	259,0	340
08711460	4 x 6,00 + (2 x 1,50)	10 / 4c	16 / 1pr	0,21/0,16	16,6 ± 0,4	377,0	470
08711470	4 x 10,00 + (2 x 1,50)	8 / 4c	16 / 1pr	0,21/0,16	19,5 ± 0,4	566,0	700
08711480	4 x 16,00 + (2 x 1,50)	6 / 4c	16 / 1pr	0,21/0,16	23,0 ± 0,4	814,8	1010
08711490	4 x 25,00 + (2 x 1,50)	4 / 4c	16 / 1pr	0,21/0,16	27,0 ± 0,5	1175,0	1450
08711495	4 x 35,00 + (2 x 1,50)	2 / 4c	16 / 1pr	0,21/0,16	30,0 ± 0,5	1586,0	2160
08711496	4 x 50,00 + (2 x 1,50)	1 / 4c	16 / 1pr	0,26/0,16	34,4 ± 0,5	2192,0	2950

Other dimensions and colours are possible on request.

SL 875 C low capacity hybrid motor connection cable with overall copper screen 0.6/1 kV

M Style 20910 80°C CSA AWM I/II A/B 80°C 300V FT1 FT2 CE



Marking for SL 875 C 08750105:

SAB BRÖCKSKES · D-VIERSEN · 08750105 SL 875 C 4 x 1,5 mm² (1000V) + (2 x 1,0 mm²) (1000V) + (2 x AWG 22) (1000V)C

DESINA AWM Style 20910 80°C CSA AWM I/II A/B 80°C 300V FT1 FT2 CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6 < 0,50 mm ² with reference to DIN VDE 0812
Insulation:	special polymer
Colour code:	item 0875-01 .. supply cores: black cores with printing core 1: U/L1/C/L+ core 2: V/L2 core 3: W/L3/D/L- and a green-yellow earth wire control cores: black cores with number 5+6 feedback: white, blue item 0875-05 .. supply cores: black, blue, brown, green-yellow control cores: white -blue, white-green feedback: white-green, brown-green + gray, pink, yellow, violet
Stranding:	control cores pairwise, item 0875-01 .. feedbackcores pairwise item 0875-05 .. feedbackcores 0,09 mm ² pairwise pairs with cores 0,24 mm ² in layers optimally stranded
Wrapping:	non-woven tape resp. foil
Screen:	elements with tinned copper braid item 0875-01 .. feedbackcores additional Alu-foil
Wrapping:	non-woven tape resp. foil
Stranding:	screened elements and supply cores in layers optimally stranded
Wrapping:	non-woven tape
Sheath material:	TMPU acc. to DIN EN 50363-10-2 with mat surface
Sheath colour:	orange (RAL 2003)

Technical data:

Nominal voltage:	DIN VDE: supply cores	U ₀ /U 0.6/1 kV
Peak operating voltage:	DIN VDE: control cores + feedbackcores	max. 500 V
Voltage:	UL: CSA: ≥ 0,5 mm ² < 0,5 mm ²	1000 V 1000 V 300 V
Testing voltage:	supply cores, control cores feedbackcores	4000 V 3000 V
Min. bending radius		
<i>fixed laying:</i>		5 x d
<i>flexible application:</i>		10 x d
<i>continuously flexible:</i>		12 x d
Radiation resistance:		5 x 10 ⁷ cJ/kg
Temperature range	DIN VDE	UL/CSA: up to +80°C
<i>fixed laying:</i>		-50/+90 °C
<i>flexible application:</i>		-40/+90 °C
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2, EN 60332-1-2 + UL FT1, CSA FT1, FT2	
Oil resistance:	very good - TMPU acc. to DIN EN 50363-10-2	
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.	
Weather resistance:	very good	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17	

Produktvorteile:

- used as all-in-one cable solution in motor feedback systems
- low capacity construction
- UL recognized, CSA approval
- very good EMC characteristics
- long service life
- adhesion-free installation
- suitable for cable tracks
- halogen-free
- labs uncritical
(labs = enamel moisturing interfering substances)
- flexible at low temperatures
- DESINA® colours (see page C/4)

item no.	dimensions	outer-ø approx. mm	copper figure kg/km	cable weight ≈ kg/km
acc. to SICK HIPERFACE DSL®				
08750101	4 x 0,50 + (2 x 0,34)C + (2 x 26 AWG)C	9,8	85,2	131
08750102	4 x 0,75 + (2 x 0,34)C + (2 x 26 AWG)C	10,0	95,4	139
08750103	4 x 1,00 + (2 x 0,75)C + (2 x 22 AWG)C	11,8	155,2	199
08750104	4 x 1,50 + (2 x 0,75)C + (2 x 22 AWG)C	12,6	176,5	230
08750105	4 x 1,50 + (2 x 1,00)C + (2 x 22 AWG)C	12,8	181,7	237
08750106	4 x 2,50 + (2 x 1,00)C + (2 x 22 AWG)C	13,9	222,0	286
08750107	4 x 4,00 + (2 x 1,00)C + (2 x 22 AWG)C	15,4	292,8	376
08750108	4 x 6,00 + (2 x 1,00)C + (2 x 22 AWG)C	18,1	414,2	520
08750109	4 x 10,0 + (2 x 1,50)C + (2 x 22 AWG)C	20,0	593,3	715
08750110	4 x 16,0 + (2 x 1,50)C + (2 x 22 AWG)C	24,4	851,9	1055
acc. to HEIDENHAIN HMC6®				
08750501	4 x 0,75 + (2 x 0,34)C + (2 x 0,24 + 2 x 2 x 0,09)C	10,8	122,7	163
08750502	4 x 1,50 + (2 x 0,75)C + (2 x 0,24 + 2 x 2 x 0,09)C	12,1	171,1	219
08750503	4 x 2,50 + (2 x 1,00)C + (2 x 0,24 + 2 x 2 x 0,09)C	13,7	224,0	282
08750504	4 x 4,00 + (2 x 1,00)C + (2 x 0,24 + 2 x 2 x 0,09)C	15,4	288,2	359

Other dimensions and colours are possible on request.

SICK HIPERFACE DSL® is a registered trademark of SICK AG, which is used for comparative purposes only.
HEIDENHAIN HMC6® is a registered trademark of Dr. Johannes Heidenhain GmbH, which is used for comparative purposes only.



SL 841 C Combined TPE/PUR motor connection cable with overall copper screen 0.6/1 kV



AWM Style 20235 80°C CSA AWM I/II A/B 80°C 300V FT1

08410407 SL 841 C 4 x 0,75 mm² (1000V) + 2 x (2 x 0,34 mm²) (300V) **DESINA** AWM Style 20235 80°C CSA AWM I/II A/B 80°C 300V FT1 FT2 CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6 < 0,50 mm ² with reference to DIN VDE 0812
Insulation:	TPE
Colour code:	black cores with consecutive numbers acc. to EN 50334 and a green-yellow earth wire supply cores: * U1, V2, W3 and a green-yellow earth wire control cores: ** BR1 and BR2
from item no. 08411415:	
Stranding:	control cores 0,34 mm ² - 2,5 mm ² twisted to pairs
Screen:	pairs wrapped with Alu-foil, tinned copper braid
Wrapping:	pairs with PETP foil
Stranding:	screened control pairs and supply cores twisted together in layers
Wrapping:	two layers non-woven tape
Screen:	overall copper screen
Wrapping:	non-woven tape
Sheath material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Sheath colour:	orange (RAL 2003)

Technical data:

Nominal voltage:	DIN VDE: supply cores U ₀ /U 0.6/1 kV
Peak operating voltage:	DIN VDE: control cores max. 350 V
Voltage:	UL/CSA: control cores 300 V
Testing voltage U:	supply cores 4000 V control cores 1500 V
Min. bending radius	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<i>continuously flexible:</i>	12 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range	DIN VDE UL/CSA: up to +80°C
<i>fixed laying:</i>	-50/+90 °C
<i>flexible application:</i>	-40/+90 °C
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL FT1, CSA FT1 + FT2
Oil resistance:	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17

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Outstanding features:

- UL recognized, CSA approval
- very good EMC characteristics
- long service life
- adhesion-free installation
- high flexibility
- suitable for cable tracks
- halogen-free
- labs uncritical
(labs = enamel moisturing interfering substances)
- flexible at low temperatures
- EAC approval
- DESINA® colours (see page C/4)



Cable harnessing possible on request

item no.	dimensions	AWG		largest single wire ø mm	outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
		supply cores	control cores (pairs)				
08410407	4 x 0,75 + 2 x (2 x 0,34)	19 / 4c	22 / 2pr	0,16/0,11	11,6 ± 0,5	117,1	168
08410410	4 x 1,00 + 2 x (2 x 0,75)	18 / 4c	19 / 2pr	0,16	11,8 ± 0,5	150,1	201
08410415	4 x 1,50 + 2 x (2 x 0,75)	16 / 4c	19 / 2pr	0,16	12,3 ± 0,5	170,1	228
08410425	4 x 2,50 + 2 x (2 x 1,00)	14 / 4c	18 / 2pr	0,16	14,5 ± 0,8	231,8	320
08410441	4 x 4,00 + (2 x 1,00) + (2 x 1,50)	12 / 4c	18 / 1pr + 16 / 1pr	0,16	17,4 ± 0,6	343,0	458
08410461	4 x 6,00 + (2 x 1,00) + (2 x 1,50)	10 / 4c	18 / 1pr + 16 / 1pr	0,21/0,16	18,9 ± 0,8	432,8	557
08410471	4 x 10,00 + (2 x 1,00) + (2 x 1,50)	8 / 4c	18 / 1pr + 16 / 1pr	0,21/0,16	20,4 ± 1,0	603,7	736
08410485	4 x 16,00 + 2 x (2 x 1,50)	6 / 4c	16 / 2pr	0,21/0,16	26,0 ± 0,8	875,7	1111
08410490	4 x 25,00 + 2 x (2 x 1,50)	4 / 4c	16 / 2pr	0,21/0,16	29,4 ± 0,8	1251,1	1517
08410495	4 x 35,00 + 2 x (2 x 1,50)	2 / 4c	16 / 2pr	0,21/0,16	31,3 ± 0,8	1644,6	1882
08410496	4 x 50,00 + 2 x (2 x 2,50)	1 / 4c	14 / 2pr	0,31/0,16	38,2 ± 0,8	2317,6	2659
08411415	4 x 1,50 + (2 x 1,50)	16 / 4c	16 / 1pr	0,16	12,5 ± 0,3	159,9	222
08411425	4 x 2,50 + (2 x 1,50)	14 / 4c	16 / 1pr	0,16	13,3 ± 0,4	204,8	285
08411440	4 x 4,00 + (2 x 1,50)	12 / 4c	16 / 1pr	0,16	15,2 ± 0,4	268,8	369
08411460	4 x 6,00 + (2 x 1,50)	10 / 4c	16 / 1pr	0,21/0,16	16,6 ± 1,1	377,5	485
08411470	4 x 10,00 + (2 x 1,50)	8 / 4c	16 / 1pr	0,21/0,16	19,5 ± 1,6	555,8	677
08411480	4 x 16,00 + (2 x 1,50)	6 / 4c	16 / 1pr	0,21/0,16	23,7 ± 1,0	814,8	1019
08411490	4 x 25,00 + (2 x 1,50)	4 / 4c	16 / 1pr	0,21/0,16	27,2 ± 0,7	1175,6	1418
08411495	4 x 35,00 + (2 x 1,50)	2 / 4c	16 / 1pr	0,21/0,16	30,1 ± 1,0	1586,4	1810
08411496	4 x 50,00 + (2 x 1,50)	1 / 4c	16 / 1pr	0,31/0,16	34,4 ± 1,0	2192,4	2463

Other dimensions and colours are possible on request.



SL 833 C PUR motor connection cable with TPE cores and overall copper screen 0.6/1 kV



AWM Style 20235 80°C CSA AWM I/II A/B 80°C 1000V FT1 FT2 CE

Marking for SL 833 C 08330415: SAB BRÖCKSKES · D-VIERSEN · 08330415 4 x 1,5 mm² SL 833 C 16 AWG/4c 1000V 08331604
DESINA AWM Style 20235 80°C CSA AWM I/II A/B 80°C 1000V FT1 FT2 CE

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Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	TPE
Colour code:	black cores with consecutive numbers acc. to EN 50334 and a green-yellow earth wire
Stranding:	in layers
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Sheath material:	PU acc. UL 758
Sheath colour:	orange (RAL 2003)

Technical data:

Nominal voltage:	DIN VDE U ₀ /U 0.6/1 kV	
Voltage:	UL/CSA 1000 V	
Testing voltage U:	4000 V	core/screen 2000 V
Min. bending radius		
<i>fixed laying:</i>	5 x d	
<i>flexible application:</i>	10 x d	
<i>continuously flexible:</i>	12 x d	
Radiation resistance:	5 x 10 ⁷ cJ/kg	
Temperature range	DIN VDE	UL/CSA: up to +80 °C
<i>fixed laying:</i>	-50/+70 °C	
<i>flexible application:</i>	-40/+70 °C	
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL FT1, CSA FT1 + FT2	
Oil resistance:	very good - oilrating 60 °C acc. to UL 1581	
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17	

Outstanding features:

- UL recognized, CSA approval
- very good EMC characteristics
- very high flexibility
- suitable for cable tracks
- oil resistant
- very long service life
- adhesion-free installation
- labs uncritical
(labs = enamel moisturing interfering substances)
- flexible at low temperatures
- EAC approval
- DESINA® colours (see page C/4)



for DNC motors
on frequency
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item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
08330415	4 x 1,50	0,16	9,1	83,5	126
08330425	4 x 2,50	0,16	11,0	142,5	192
08330440	4 x 4,00	0,16	12,5	206,7	273
08330460	4 x 6,00	0,21	15,5	298,3	399
08330470	4 x 10,0	0,21	17,8	495,2	605
08330480	4 x 16,0	0,21	22,8	750,0	951
08330490	4 x 25,0	0,21	25,7	1120,2	1331
08330495	4 x 35,0	0,21	29,2	1534,3	1732
08330496	4 x 50,0	0,31	34,3	2144,0	2428

Other dimensions and colours are possible on request.



SL 842 C TPE/PUR feedback cable with overall copper screen
SL 843 C TPE/PUR transmission cable with overall copper screen



Marking for SL 842 C 08420050:
 SAB BRÖCKSKES · D-VIERSEN · 08420050 9 x 0,5 mm² SL 842 C 20 AWG/9c 08422009
 AWM-Style 20233 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 CE

Marking for SL 843 C 08430006:
 SAB BRÖCKSKES · D-VIERSEN · 08430006 SL 843 C 3 x 2 x 0,25 mm² + 2 x 0,5 mm²
DESINA AWM-Style 20235 80°C CSA AWM I/II A/B 80°C 300V FT1 CE

Construction:

Conductor:	bare copper strands with reference to DIN VDE 0812
Insulation:	TPE
Colour code:	coloured
Stranding	SL 842 C: in layers SL 843 C: in layers or pairwise
Screen:	<i>acc. to dimension:</i> pairs with tinned copper wires braided or wrapped
Inner sheath:	TPE over screened pairs
Stranding:	cores/pairs twisted together in layers
Wrapping:	one or two layers non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Sheath material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Sheath colour:	orange (RAL 2003) or green (RAL 6018)

Outstanding features:

- UL recognized, CSA approval
- good EMC characteristics
- high flexibility
- suitable for cable tracks
- oil resistant
- long service life
- adhesion-free installation
- halogen-free
- labs uncritical
(labs = enamel moisturing interfering substances)
- EAC approval
- **DESINA**® colours (see page C/4)

Technical data:

Peak operating voltage	DIN VDE max. 500 V	UL/CSA: 300 V
SL 842 C:	max. 350 V	
SL 843 C:		
Voltage:	UL/CSA: 300 V	
Testing voltage U:	2000 V	
Min. bending radius		
<i>fixed laying:</i>	5 x d	
<i>flexible application:</i>	10 x d	
<i>continuously flexible:</i>	12 x d	
Radiation resistance:	5 x 10 ⁷ cJ/kg	
Temperature range	DIN VDE -50/+90 °C	UL/CSA: up to +80 °C
<i>fixed laying:</i>		
<i>flexible application:</i>	-40/+90 °C	
Fire performance	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL FT1, CSA FT1 + FT2	
SL 842 C:		
Fire performance	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL/CSA FT1	
SL 843 C:		
Oil resistance:	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10	
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.	
Weather resistance:	very good	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/14	

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suitable for resolvers and shaft encoders

item no.	dimensions	sheath colour	largest single wire ø mm	ca. outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
motor feedback cable						
08420050	9 x 0,50	orange	0,16	8,8 ± 0,3	72,6	104
transmission cable						
08430009	4 x 2 x 0,25 + 2 x 0,50	orange	0,11/0,16	8,8 ± 0,3	54,7	92
08430010	4 x 2 x 0,25 + 2 x 1,00	orange	0,11/0,16	8,8 ± 0,3	63,5	96
08430160	3 x (2 x 0,25) D + 3 x 0,25 + 2 x 1,00	orange	0,11/0,16	10,0 ± 0,3	85,6	132
08430040	3 x (2 x 0,25) D	orange	0,11	8,7 ± 0,3	57,7	94
08430060	4 x 2 x 0,14 + (4 x 0,14) D + 4 x 1,0	orange	0,11/0,16	9,8 ± 0,3	88,7	136
08430012	4 x 2 x 0,14 + 4 x 0,50	green	0,11/0,16	9,1 ± 10%	56,9	101
08430112	10 x 0,14 + 2 x 0,50	green	0,11/0,16	8,5 ± 10%	46,8	90
08430114	10 x 0,14 + 4 x 0,50	green	0,11/0,16	9,0 ± 10%	59,5	106
08430006	3 x 2 x 0,25 + 2 x 0,50	green	0,11/0,16	8,7 ± 10%	50,1	89
08430013	4 x 2 x 0,38 + 4 x 0,50	green	0,11/0,16	10,3 ± 10%	80,6	135
08430020	3 x (2 x 0,14) C + 2 x 1,00	green	0,11/0,16	10,0 ± 10%	85,8	127
08430022	3 x (2 x 0,14) C + 2 x (0,50) C	green	0,11/0,16	10,1 ± 10%	93,0	134
08431050	3 x (2 x 0,14) D + 4 x 0,14 + 4 x 0,22 + 2 x 0,50	green	0,11	10,7 ± 10%	97,9	129
08430070	3 x (2 x 0,14) D + 4 x 0,14 + 2 x 0,50	green	0,11/0,16	10,1 ± 10%	71,5	122
08430310	12 x 0,22	green	0,11	8,5 ± 10%	46,4	86
08430212	2 x 2 x 0,18	green	0,11	6,7 ± 10%	24,2	50
08430214	4 x 2 x 0,18	green	0,11	8,2 ± 10%	34,9	71
08430216	8 x 2 x 0,18	green	0,11	9,7 ± 10%	55,2	104

Other dimensions and colours are possible on request.



SL 839 C PUR transmission cable with overall copper screen



Marking for SL 839 C 08390138:

SAB BRÖCKSKES · D-VIERSEN · 08390138 SL 839 C 4 x 2 x 0,38 mm² + 4 x 0,50 mm² DESINA AWM Style 20236 80°C 30V

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Construction:

Conductor:	tinned copper strands with reference to DIN VDE 0812
Insulation:	special Polymer
Colour code:	coloured
Screen:	<i>acc. to dimension:</i> pairs wrapped with tinned copper braid
Inner sheath:	special Polymer
Stranding:	cores or pairs
Stranding:	cores/pairs twisted together in layers
Wrapping:	one non-woven tape or non-woven tape and PETP foil
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Sheath material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface or PU acc. to UL 758
Sheath colour:	green (RAL 6018)

Technical data:

Peak operating voltage:	max. 30 V
Voltage UL:	30 V
Testing voltage U:	750 V
Min. bending radius	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<i>continuously flexible:</i>	12 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range	
<i>fixed laying:</i>	-40/+70 °C
<i>flexible application:</i>	-20/+70 °C
Oil resistance:	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc. or oilrating 60°C acc. to UL 758
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17

Outstanding features:

- UL recognized
- good EMC characteristics
- flexible installation
- oil resistant
- long service life
- adhesion-free installation
- halogen-free
- labs uncritical
(labs = enamel moisturing interfering substances)
- DESINA® colours (page C/4)



suitable for
resolvers and
shaft encoders

Sheath material TMPU acc. to DIN VDE 0282

item no.	dimensions	sheath colour	largest single wire ø mm	outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
08390114	3 x (2 x 0,14) D + 2 x (0,50) D	green	0,11/0,16	9,2 ± 0,4	68,2	106
08390214	3 x (2 x 0,14) D + 4 x 0,14 + 2 x 0,50	green	0,11/0,16	9,0 ± 0,4	63,7	101
08391050	3 x (2 x 0,14) D + 4 x 0,14 + 4 x 0,22 + 2 x 0,50	green	0,11/0,16	9,6 ± 0,4	79,0	114
08390138	4 x 2 x 0,38 + 4 x 0,50	green	0,11/0,16	8,8 ± 0,4	72,2	111
08390318	8 x 2 x 0,18	green	0,11	7,8 ± 0,4	48,0	77
08390122	12 x 0,22	green	0,11	6,7 ± 0,4	42,5	66

Other dimensions and colours are possible on request.

Sheath material PU acc. to UL 758

item no.	dimensions	sheath colour	largest single wire ø mm	outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
08390118	4 x 0,18	green	0,11	4,9 ± 0,4	18,9	30
08390218	4 x 2 x 0,18	green	0,11	6,3 ± 0,4	30,8	50
08390115	2 x 2 x 0,15 + 2 x 0,38	green	0,11/0,16	6,9 ± 0,3	46,1	67
08390220	2 x 2 x 0,20 + 2 x 0,38	green	0,11/0,16	6,9 ± 0,3	34,9	61

Other dimensions and colours are possible on request.