

Servo Motor Cables



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SERVO MOTOR CABLES

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

5 80°C 1000V CSA AWM I/II A/B 80°C 1000V FT1 CE



Marking for SL 833 C 08331004:

SAB BRÖCKSKES · D-VIERSEN · 08330460 4 x 6,0 mm² SL 833 C 10 AWG/4c 08331004 AWM Style 20235 80°C 1000V CSA AWM I/II A/B 80°C 1000V FT1 CE

SL 833 C is a halogen free UL/CSA approved, highly flexible, continuous flex motor supply cable which has been designed for automated servo systems. The special ultra flexible design makes SL 833 C ideally suited for small bend radius applications, such as cable track, automated handling equipment and other continuous movement applications.

Construction:

Conductor:	bare copper strands acc. to DIN VDE 0295 class 6 + IEC 60228 class 6 + HD 383 class 6
Insulation:	TPE 510
Color code:	black conductors with consecutive numbers acc. to DIN VDE 0293 + HD 186 and a green-yellow earth wire
Stranding:	in layers
Wrapping:	two layers non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	orange

Outstanding features:

- UL + CSA approvals
- 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

Technical data:

Nominal voltage:	DIN VDE U ₀ /U 0.6/1 kV	
Voltage:	UL/CSA 1000 V	
Testing voltage U:	supply conductors 4000 V	core/screen 2000 V
Min. bending radius		
fixed installation:	5 x O.D.	
free movement:	7.5 x O.D.	
for continuous flexing:	12 x O.D.	
Radiation resistance:	5 x 10 ⁷ cJ/kg	
Temperature range	DIN VDE	UL/CSA: up to +80 °C
static:	-50/+90 °C	
flexing:	-40/+90 °C	
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1, CSA FT1 and UL FT1	
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.	
Absence of harmful substances:	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page L/23	

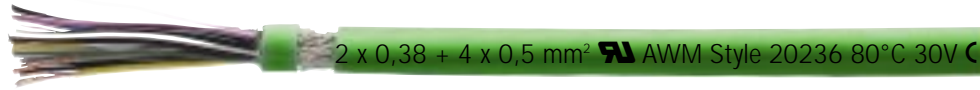
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item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 16 AWG (27-29/30) • 1.50 mm ²					▶ 10 AWG (78/28) • 6.00 mm ²					▶ 4 AWG (169/26) • 25.00 mm ²				
08331604	4	0.390	9.9	99	08331004	4	0.622	15.8	285	08330404	4	1.004	25.5	932
▶ 14 AWG (46/36) • 2.50 mm ²					▶ 8 AWG (77/26) • 10.00 mm ²					▶ 2 AWG (280/26) • 35.00 mm ²				
08331404	4	0.453	11.5	141	08330804	4	0.740	18.8	435	08330204	4	1.130	28.7	1237
▶ 12 AWG (52/28) • 4.00 mm ²					▶ 6 AWG (119/26) • 16.00 mm ²					▶ 1 AWG (400/26) • 50.00 mm ²				
08331204	4	0.496	12.6	189	08330604	4	0.870	22.1	657	08330104	4	1.315	33.4	1710

Other dimensions and colors are possible on request.

SERVO MOTOR CABLES

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 + 4 x 0,5 mm² UL AWM Style 20236 80°C 30V CE

SL 839 C is a UL approved, continuous flexible tinned copper shielded, multi conductor, motor feedback and transmission cable. The cable is designed for use in highly flexible, mobile connection primary in speedometer, brake, temperature control in motors and continuous flex applications for automatin, control technology, in cable tracks on wood working machines, machines and industrial construction, even with high mechanical demands and in dry, damp and wet conditions, as well as low temperatures. The cable has highly abrasion and high chemical demands and a very good resistance against acids alkalines, solvents hydraulic liquids and oil. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

Construction:

Conductor:	tinned copper strands acc. to DIN VDE 812
Insulation:	special Polymer
Color code:	colored
Screen:	acc. to dimension: pairs screened with tinned copper braid
Inner jacket:	special Polymer
Stranding:	conductors or pairs
Stranding:	conductors/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
Jacket material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	green

Technical data:

Peak operating voltage:	max. 30 V	
Voltage:	UL: 300 V	
Testing voltage U:	750 V	
Min. bending radius		
<i>fixed installation:</i>	5 x O.D.	
<i>free movement:</i>	10 x O.D.	
<i>for continuous flexing:</i>	12 x O.D.	
Radiation resistance:	5 x 10 ⁷ cJ/kg	
Temperature range		
<i>static:</i>	-40/+70 °C	UL: up to +80 °C
<i>flexing:</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.	
Weather resistance:	very good	

Outstanding features:

- good EMC characteristics
- flexible installation
- oil resistant
- long service life
- adhesion-free installation
- halogen-free
- labs uncritical
(labs = enamel moisturing interfering substances)

item no.	dimensions	nominal outer-ø		cable weight ≈ lbs/mft
		inch	mm	
▶ 08390114	26 AWG / 3pr + 20 AWG / 2c	0.354 ± 0.016	9.0 ± 0.4	76
▶ 08390214	26 AWG / 3pr + 26 AWG / 4c + 20 AWG / 2c	0.346 ± 0.016	8.8 ± 0.4	71
▶ 08391050	26 AWG / 3pr + 26 AWG / 4c + 24 AWG / 2c + 20 AWG / 2c	0.374 ± 0.016	9.5 ± 0.4	83
▶ 08390138	22 AWG / 4pr + 20 AWG / 4c	0.350 ± 0.016	8.9 ± 0.4	77
▶ 08390118	26 AWG / 4c	0.193 ± 0.016	4.9 ± 0.4	24
▶ 08390218	26 AWG / 4pr	0.248 ± 0.016	6.3 ± 0.4	38
▶ 08390318	26 AWG / 8pr	0.307 ± 0.016	7.8 ± 0.4	54
▶ 08390122	22 AWG / 12c	0.272 ± 0.016	6.9 ± 0.4	46

Other dimensions and colors are possible on request.

SERVO MOTOR CABLES

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

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



Marking for SL 841 C 08410415:

SAB BRÖCKSKES · D-VIERSEN · 08410415 4 x 1,5 mm² + 2 x (2 x 0,75)mm² SL 841 C AWM Style 20235 80°C CSA AWM I/II A/B 80°C 300V FT1 CE

The SL 841 C is a UL/CSA approved, overall shielded continuous flex power supply and feedback cable which has been designed for automated servo systems. The composite cable offers a unique combination of signal and power conductors, under one jacket, while reducing weight and saving space. The special design makes SL 841 C ideally suited for automated applications, such as cable track, automated handling equipment, pick-and-place units, gantry robots, machine tools and other continuous movement applications. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emission needs to be suppressed.

Construction:

Conductor:	bare copper strands acc. to DIN VDE 0295 class 6 + IEC 60228 class 6 + HD 383 class 6
Insulation:	TPE 510
Color code:	black conductors with consecutive numbers acc. to DIN VDE 0293 + HD 186 (except 22 AWG = colored) and a green-yellow earth wire.
from item no. 08411415:	supply conductors: * U1, V2, W3 and a green-yellow earth wire control conductors: ** BR1 and BR2
Stranding:	control conductors 22 - 14 AWG twisted to pairs
Screen:	pairs wrapped with Alu-foil, tinned copper braid
Wrapping:	pairs with PETP foil
Stranding:	screened control pairs and supply conductors twisted together in layers
Wrapping:	two layers non-woven tape
Screen:	overall copper screen
Wrapping:	non-woven tape
Jacket material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	orange

Outstanding features:

- 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

Technical data:

Nominal voltage:	DIN VDE: supply conductors U ₀ /U 0.6/1 kV
Voltage:	UL/CSA: supply conductors 1000 V
Peak operating voltage:	DIN VDE: control conductors max. 350 V
Voltage:	UL/CSA: control conductors max. 300 V
Testing voltage U:	supply conductors 4000 V
Min. bending radius	
<i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
<i>for continuous flexing:</i>	12 x O.D.
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range	DIN VDE UL/CSA: up to +80°C
<i>static:</i>	-50/+90 °C
<i>flexing:</i>	-40/+90 °C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1, CSA FT1 und UL FT1
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-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page L/23

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item no.	power conductors	single pairs, individually shielded	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 08410407	19 AWG / 4c	22 AWG / 2pr	0.433 ± 0.020	11.0 ± 0.5	115
▶ 08410410	18 AWG / 4c	19 AWG / 2pr	0.472 ± 0.020	12.0 ± 0.5	145
▶ 08410415	16 AWG / 4c	19 AWG / 2pr	0.480 ± 0.020	12.2 ± 0.5	162
▶ 08410425	14 AWG / 4c	18 AWG / 2pr	0.591 ± 0.032	15.0 ± 0.8	228
▶ 08410441	12 AWG / 4c	18 AWG / 1pr + 16 AWG / 1pr	0.701 ± 0.024	17.8 ± 0.6	324
▶ 08410461	10 AWG / 4c	18 AWG / 1pr + 16 AWG / 1pr	0.732 ± 0.032	18.6 ± 0.8	401
▶ 08410471	8 AWG / 4c	18 AWG / 1pr + 16 AWG / 1pr	0.886 ± 0.039	22.5 ± 1.0	553
▶ 08410485	6 AWG / 4c	16 AWG / 2pr	1.087 ± 0.032	27.6 ± 0.8	784
▶ 08410490	4 AWG / 4c	16 AWG / 2pr	1.197 ± 0.032	30.4 ± 0.8	1114
▶ 08410495	2 AWG / 4c	16 AWG / 2pr	1.276 ± 0.032	32.4 ± 0.8	1378
▶ 08410496	1 AWG / 4c	14 AWG / 2pr	1.512 ± 0.032	38.4 ± 0.8	1921

Other dimensions and colors are possible on request.

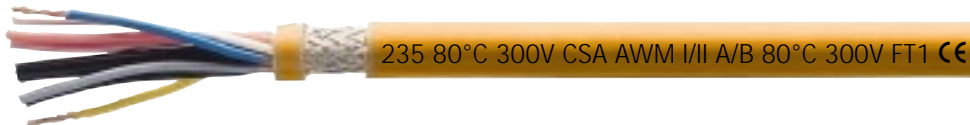
item no.	power conductors	single pairs, individually shielded	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 08411415	16 AWG / 4c	16 AWG / 1pr	0.543 ± 0.016	13.8 ± 0.4	158
▶ 08411425	14 AWG / 4c	16 AWG / 1pr	0.543 ± 0.016	13.8 ± 0.4	192
▶ 08411440	12 AWG / 4c	16 AWG / 1pr	0.587 ± 0.016	14.9 ± 0.4	249
▶ 08411460	10 AWG / 4c	16 AWG / 1pr	0.657 ± 0.043	16.7 ± 1.1	342
▶ 08411470	8 AWG / 4c	16 AWG / 1pr	0.756 ± 0.063	19.2 ± 1.8	476
▶ 08411480	6 AWG / 4c	16 AWG / 1pr	0.906 ± 0.067	23.0 ± 1.7	730
▶ 08411490	4 AWG / 4c	16 AWG / 1pr	1.059 ± 0.039	26.9 ± 1.0	1030
▶ 08411495	2 AWG / 4c	16 AWG / 1pr	1.220 ± 0.039	31.0 ± 1.0	1363
▶ 08411496	1 AWG / 4c	16 AWG / 1pr	1.370 ± 0.039	34.8 ± 1.0	1833

Other dimensions and colors are possible on request.



SERVO MOTOR CABLES

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



Marking for SL 842 C 08422009:

SAB BRÖCKSKES · D-VIERSEN · 08420050 9 x 0,5 mm² SL 842 C 20 AWG/9c 08422009 AWM Style 20235 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 CE

SL 842 C is a continuous flexing UL and CSA approved feedback cable with an overall tinned copper braid. This cable is designed for automated servo systems. It is ideally suited for automated applications, such as cable tracks, automated handling equipment, pick- and place units, gantry robots, machine tools and other continuous movement applications. An overall tinned copper braid is recommended whenever interference distorts signal transmission, or when EMI emissions need to be suppressed.

Construction:

Conductor:	bare copper strands acc. to DIN VDE 0295 class 6 + IEC 60228 class 6 + HD 383 class 6
Insulation:	TPE 510
Color code:	colored
Stranding:	in layers
Screen:	acc. to dimension: pairs screened with tinned copper braid
Inner jacket:	TPE 510 over screened pairs
Stranding:	conductors/pairs twisted together in layers
Wrapping:	one or two layers non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	orange

Outstanding features:

- good EMC characteristics
- high flexibility
- oil resistant
- long service life
- adhesion-free installation
- halogen-free
- labs uncritical
(labs = enamel moisturing interfering substances)

Technical data:

Peak operating voltage:	DIN VDE: max. 500 V	
Voltage:	UL/CSA: 300 V	
Testing voltage U:	2000 V	
Min. bending radius		
<i>fixed installation:</i>	5 x O.D.	
<i>free movement:</i>	10 x O.D.	
<i>for continuous flexing:</i>	12 x O.D.	
Radiation resistance:	5 x 10 ⁷ cJ/kg	
Temperature range	DIN VDE	UL/CSA: up to +80 °C
<i>static:</i>	-50/+90 °C	
<i>flexing:</i>	-40/+90 °C	
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1, CSA FT1 und UL FT1	
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-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page L/23	

item no.	dimensions	nominal outer-ø		cable weight ≈ lbs/mft
		inch	mm	
▶ 08422009	20 AWG / 9c	0,346 ± 0,012	8,8 ± 0,3	83

Other dimensions and colors are possible on request.

SERVO MOTOR CABLES

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

0235 80°C 300 V CSA AWM I/II A/B 80°C 300V FT1 CE



Marking for SL 843 C 08430009:

SAB BRÖCKSKES · D-VIERSEN · 08430009 4 x 2 x 0,25 mm² + 2 x 0,5 mm² SL 843 C AWM Style 20235 80°C 300 V CSA AWM I/II A/B 80°C 300V FT1 CE

SL 843 C is a continuous flexing UL and CSA approved transmission cable with an overall tinned copper braid. This cable is designed for automated servo systems and also suitable for resolvers and shaft encoders. An overall tinned copper braid is recommended whenever interference distorts signal transmission, or when EMI emissions need to be suppressed.

Construction:

Conductor:	bare copper strands acc. to DIN VDE 0295 class 6 + IEC 60228 class 6 + HD 383 class 6
Insulation:	TPE 510
Color code:	colored
Stranding:	in layers or pairwise
Screen:	acc. to dimension: pairs screened with tinned copper braid
Inner jacket:	TPE 510 over screened pairs
Stranding:	conductors/pairs twisted together in layers
Wrapping:	one or two layers non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	orange or green

Outstanding features:

- good EMC characteristics
- high flexibility
- oil resistant
- long service life
- adhesion-free installation
- halogen-free
- labs uncritical
(labs = enamel moisturing interfering substances)

Technical data:

Peak operating voltage:	DIN VDE: max. 350 V	
Voltage:	UL/CSA: 300 V	
Testing voltage U:	2000 V	
Min. bending radius		
<i>fixed installation:</i>	5 x O.D.	
<i>free movement:</i>	10 x O.D.	
<i>for continuous flexing:</i>	12 x O.D.	
Radiation resistance:	5 x 10 ⁷ cJ/kg	
Temperature range	DIN VDE	UL/CSA: up to +80 °C
<i>static:</i>	-50/+90 °C	
<i>flexing:</i>	-40/+90 °C	
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1, CSA FT1 und UL FT1	
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-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page L/23	

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item no.	dimensions	jacket color	nominal outer- \varnothing inch	mm	cable weight = lbs/mft
▶ 08430009	24 AWG / 4pr + 20 AWG / 2c	orange	0.346 ± 0.012	8.8 ± 0.3	69
▶ 08430010	24 AWG / 4pr + 18 AWG / 2c	orange	0.346 ± 0.012	8.8 ± 0.3	75
▶ 08430160	24 AWG / 3pr + 24 AWG / 3c + 18 AWG / 2c	orange	0.394 ± 0.012	10.0 ± 0.3	93
▶ 08430040	24 AWG / 3pr	orange	0.343 ± 0.012	8.7 ± 0.3	65
▶ 08430060	26 AWG / 4pr + 26 AWG / 4c + 18 AWG / 4c	orange	0.382 ± 0.012	9.7 ± 0.3	95
▶ 08430012	26 AWG / 4pr + 20 AWG / 4c	green	0.358 ± 10%	9.1 ± 10%	72
▶ 08430112	26 AWG / 10c + 20 AWG / 2c	green	0.323 ± 10%	8.2 ± 10%	56
▶ 08430114	26 AWG / 10c + 20 AWG / 4c	green	0.346 ± 10%	8.8 ± 10%	68
▶ 08430006	24 AWG / 3pr + 20 AWG / 2c	green	0.343 ± 10%	8.7 ± 10%	58
▶ 08430013	22 AWG / 4pr + 20 AWG / 4c	green	0.398 ± 10%	10.1 ± 10%	90
▶ 08430020	26 AWG / 3pr + 18 AWG / 2c	green	0.386 ± 10%	9.8 ± 10%	81
▶ 08430022	26 AWG / 3pr + 20 AWG / 2c	green	0.390 ± 10%	9.9 ± 10%	87
▶ 08431050	26 AWG / 3pr + 26 AWG / 4c + 24 AWG / 4c + 20 AWG / 2c	green	0.437 ± 10%	11.1 ± 10%	103
▶ 08430070	26 AWG / 3pr + 26 AWG / 4c + 20 AWG / 2c	green	0.390 ± 10%	9.9 ± 10%	83
▶ 08430310	24 AWG / 12c	green	0.307 ± 10%	7.8 ± 10%	60
▶ 08430212	26 AWG / 2pr	green	0.252 ± 10%	6.4 ± 10%	34
▶ 08430214	26 AWG / 4pr	green	0.307 ± 10%	7.8 ± 10%	47
▶ 08430216	26 AWG / 8pr	green	0.366 ± 10%	9.3 ± 10%	68

Other dimensions and colors are possible on request.

SERVO MOTOR CABLES

suitable for cable tracks and very good EMC

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



SL 801 C 4 x 0,75 mm² + 2 x (2 x 0,34 mm²) CE

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) CE

The SL 801 C is an overall shielded continuous flex power supply and feedback cable which has been designed for automated servo systems. The composite cable offers a unique combination of signal and power conductors, under one jacket, while reducing weight and saving space. The special design makes SL 801 C ideally suited for automated applications, such as cable track, automated handling equipment, pick-and-place units, gantry robots, machine tools and other continuous movement applications. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emission needs to be suppressed.

Construction:

Conductor:	bare copper strands acc. to DIN VDE 0295 class 6 + IEC 60228 class 6 + HD 383 class 6
Insulation:	TPE 510
Color code:	black conductors with consecutive numbers acc. to DIN VDE 0293 + HD 186 (except 22 AWG = colored) and a green-yellow earth wire supply conductors: U1, V2, W3 and a green-yellow earth wire control conductors: BR1 and BR2
from item no. 08011415:	
Stranding:	control conductors 22 AWG - 14 AWG twisted to pairs
Screen:	pairs wrapped with Alu-foil, tinned copper braid
Wrapping:	pairs with PETP foil
Stranding:	screened control pairs and supply conductors twisted together in layers
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	orange

Technical data:

Nominal voltage:	supply conductors U ₀ /U 0.6/1 kV
Peak operating voltage:	control conductors max. 500 V
Testing voltage U:	supply conductors 4000 V
Min. bending radius	
<i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
<i>for continuous flexing:</i>	12 x O.D.
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range	
<i>static:</i>	-50/+90 °C
<i>flexing:</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-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page L/23

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

item no.	power conductors	single pairs, individually shielded	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 08010407	19 AWG / 4c	22 AWG / 2pr	0.413 ± 0.020	10.5 ± 0.5	108
▶ 08010410	18 AWG / 4c	19 AWG / 2pr	0.472 ± 0.020	12.0 ± 0.5	140
▶ 08010415	16 AWG / 4c	19 AWG / 2pr	0.480 ± 0.020	12.2 ± 0.5	157
▶ 08010425	14 AWG / 4c	18 AWG / 2pr	0.591 ± 0.032	15.0 ± 0.8	210
▶ 08010441	12 AWG / 4c	18 AWG / 1pr + 16 AWG / 1pr	0.701 ± 0.024	17.8 ± 0.6	311
▶ 08010461	10 AWG / 4c	18 AWG / 1pr + 16 AWG / 1pr	0.732 ± 0.032	18.6 ± 0.8	390
▶ 08010471	8 AWG / 4c	18 AWG / 1pr + 16 AWG / 1pr	0.886 ± 0.039	22.5 ± 1.0	532
▶ 08010485	6 AWG / 4c	16 AWG / 2pr	1.087 ± 0.032	27.6 ± 0.8	759
▶ 08010490	4 AWG / 4c	16 AWG / 2pr	1.102 ± 0.039	28.0 ± 1.0	1013
▶ 08010495	2 AWG / 4c	16 AWG / 2pr	1.260 ± 0.039	32.0 ± 1.0	1351
▶ 08010496	1 AWG / 4c	14 AWG / 2pr	1.504 ± 0.039	38.2 ± 1.0	1926

Other dimensions and colors are possible on request.

item no.	power conductors	single pairs, individually shielded	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 08011415	16 AWG / 4c	16 AWG / 1pr	0.492 ± 0.016	12.5 ± 0.4	143
▶ 08011425	14 AWG / 4c	16 AWG / 1pr	0.543 ± 0.016	13.8 ± 0.4	179
▶ 08011440	12 AWG / 4c	16 AWG / 1pr	0.587 ± 0.016	14.9 ± 0.4	237
▶ 08011460	10 AWG / 4c	16 AWG / 1pr	0.657 ± 0.043	16.7 ± 1.1	329
▶ 08011470	8 AWG / 4c	16 AWG / 1pr	0.756 ± 0.063	19.2 ± 1.6	469
▶ 08011480	6 AWG / 4c	16 AWG / 1pr	0.906 ± 0.067	23.0 ± 1.7	677
▶ 08011490	4 AWG / 4c	16 AWG / 1pr	1.059 ± 0.039	26.9 ± 1.0	973
▶ 08011495	2 AWG / 4c	16 AWG / 1pr	1.220 ± 0.039	31.0 ± 1.0	1352
▶ 08011496	1 AWG / 4c	16 AWG / 1pr	1.370 ± 0.039	34.8 ± 1.0	1811

Other dimensions and colors are possible on request.



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SERVO MOTOR CABLES

suitable for
cable tracks

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

BRÖCKSKES · D-VIERSEN · SL 802 C 9 x 0,5 mm² CE



Marking for SL 802 C 08020050:

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

The continuous flex servo motor feedback cables are UL/CSA approved, overall shielded and designed for automated servo systems. These cables are ideally suited for automated applications, such as cable tracks, automated handling equipment, pick-and-place units, gantry robots, machine tools, and other continuous movement applications. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmissions, or when EMI emissions need to be suppressed.

Construction:

Conductor:	bare copper strands acc. to DIN VDE 0295 class 6 + IEC 60228 class 6 + HD 383 class 6
Insulation:	TPE 510
Color code:	colored
Stranding:	in layers
Screen:	acc. to dimension: pairs screened with tinned copper braid
Inner jacket:	TPE 510
Stranding:	conductors/pairs twisted together in layers
Wrapping:	non-woven tape or netting tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	orange

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

Technical data:

Peak operating voltage:	max. 500 V
Testing voltage U:	2000 V core/screen 1200 V
Min. bending radius	
<i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
<i>for continuous flexing:</i>	12 x O.D.
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range	
<i>static:</i>	-50/+90 °C
<i>flexing:</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-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page L/23

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item no.	dimensions	nominal outer-ø		cable weight ≈ lbs/mft
		inch ±10%	mm ±10%	
▶ 08020050	20 AWG / 9c	0.307	7.8	65

Other dimensions and colors are possible on request.

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



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

SL 803 C is a continuous flexible, tinned copper shielded, multi conductor, transmission cable. The cable is designed for use in highly flexible, connection for speedometer, brake, temperature control in motors, for continuous flexible connection in automation application, on wood working machines, machines and industrial factory construction, even with high mechanical demands and in dry, damp and wet conditions, as well as at low temperatures. With the polyurethane outer jacket the cable has a very good resistance against acids, alkalines, solvents hydraulic liquids and oil. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

Construction:

Conductor:	bare copper strands acc. to DIN VDE 0295 class 6 + IEC 60228 class 6 + HD 383 class 6
Insulation:	TPE 510
Color code:	colored
Stranding:	in layers or pairwise
Screen:	acc. to dimension: pairs screened with tinned copper braid
Inner jacket:	TPE 510
Stranding:	conductors/pairs twisted together in layers
Wrapping:	non-woven tape or netting tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	green

Technical data:

Peak operating voltage:	max. 350 V
Testing voltage U:	2000 V core/screen 1200 V
Min. bending radius	
<i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
<i>for continuous flexing:</i>	12 x O.D.
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range	
<i>static:</i>	-50/+90 °C
<i>flexing:</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

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

item no.	dimensions	jacket color	nominal inch ±10%	outer-ø mm ±10%	cable weight ≈ lbs/mft
▶ 08030009	24 AWG / 4pr + 20 AWG / 2c	orange	0.307	7.8	54
▶ 08030010	24 AWG / 4pr + 18 AWG / 2c	orange	0.311	7.9	62
▶ 08030160	24 AWG / 3pr + 24 AWG / 3c + 18 AWG / 2c	orange	0.311	7.9	65
▶ 08030040	24 AWG / 3pr	orange	0.248	6.3	35
▶ 08030060	26 AWG / 4pr + 26 AWG / 4c + 18 AWG / 4c	orange	0.382	9.7	91
▶ 08030012	26 AWG / 4pr + 20 AWG / 4c	green	0.311	7.9	58
▶ 08030112	26 AWG / 10c + 20 AWG / 2c	green	0.276	7.0	44
▶ 08030114	26 AWG / 10c + 20 AWG / 4c	green	0.307	7.8	56
▶ 08030013	22 AWG / 4pr + 20 AWG / 4c	green	0.350	8.9	75
▶ 08030020	26 AWG / 3pr + 18 AWG / 2c	green	0.339	8.6	69
▶ 08030022	26 AWG / 3pr + 20 AWG / 2c	green	0.346	8.8	73
▶ 08031050	26 AWG / 3pr + 26 AWG / 4c + 24 AWG / 4c + 20 AWG / 2c	green	0.374	9.5	81

Other dimensions and colors are possible on request.

SERVO MOTOR CABLES

very good
EMC

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

06 C 4 x 0,75 mm² + 2 x (2 x 0,34 mm²) CE



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

The SL 806 C is an overall shielded continuous flex power supply and feedback cable which has been designed for automated servo systems. The composite cable offers a unique combination of signal and power conductors, under one jacket, while reducing weight and saving space. The special design makes SL 806 C ideally suited for automated applications, such as cable track, automated handling equipment, pick-and-place units, gantry robots, machine tools and other continuous movement applications. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emission needs to be suppressed.

Construction:

Conductor:	bare copper strands acc. to DIN VDE 0295 class 5 + IEC 60228 class 5 + HD 383 class 5
Insulation:	control conductors: PE 2Y11 acc. to DIN VDE 0207 part 2 supply conductors: PVC TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	black conductors with consecutive numbers acc. to DIN VDE 0293 + HD 186 (except 22 AWG = colored) and a green-yellow earth wire
Stranding:	control conductors 22 AWG - 16 AWG twisted to pairs
Screen:	pairs wrapped with Alu-foil, tinned copper braid
Wrapping:	pairs with PETP foil
Stranding:	screened control pairs and supply conductors twisted together in layers
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Jacket material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	gray

Outstanding features:

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

Technical data:

Nominal voltage:	supply conductors U _o /U 0.6/1 kV
Peak operating voltage:	control conductors max. 500 V
Testing voltage U:	supply conductors 4000 V control conductors 1500 V
Min. bending radius	
fixed installation:	5 x O.D.
free movement:	10 x O.D.
for continuous flexing:	12 x O.D.
Radiation resistance:	8 x 10 ⁻⁷ cJ/kg
Temperature range	
static:	-30/+70 °C
flexing:	- 5/+70 °C
Oil resistance:	acc. to internal standard, see page L/23
Chem. resistance:	see page L/9
Absence of harmful substances:	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page L/23

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item no.	power conductors	single pairs, individually shielded	nominal outer-ø inch ±10%	mm ±10%	cable weight ≈ lbs/mft
▶ 08060407	19 AWG / 4c	22 AWG / 2pr	0.500	12.7	138
▶ 08060415	16 AWG / 4c	19 AWG / 2pr	0.551	14.0	184
▶ 08060425	14 AWG / 4c	19 AWG / 2pr	0.606	15.4	233
▶ 08060440	12 AWG / 4c	18 AWG / 1pr + 16 AWG / 1pr	0.677	17.2	318
▶ 08060460	10 AWG / 4c	18 AWG / 1pr + 16 AWG / 1pr	0.752	19.1	390
▶ 08060470	8 AWG / 4c	18 AWG / 2pr	0.890	22.6	566
▶ 08060480	6 AWG / 4c	18 AWG / 2pr	1.083	27.5	804
▶ 08060490	4 AWG / 4c	16 AWG / 2pr	1.240	31.5	1136
▶ 08060495	2 AWG / 4c	16 AWG / 2pr	1.386	35.2	1572

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



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

The continuous flex servo motor feedback cables are UL/CSA approved, overall shielded and designed for automated servo systems. These cables are ideally suited for automated applications, such as cable tracks, automated handling equipment, pick-and-place units, gantry robots, machine tools, and other continuous movement applications. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmissions, or when EMI emissions need to be suppressed.

Construction:

Conductor:	bare copper strands acc. to DIN VDE 0295 class 5 + IEC 60228 class 5 + HD 383 class 5
Insulation:	PE 2Y11 acc. to DIN VDE 0207 part 2
Color code:	colored
Stranding:	in layers
Screen:	acc. to dimension: conductors/pairs screened with tinned copper braid
Wrapping:	PETP foil
Stranding:	conductors/pairs twisted together in layers
Wrapping:	PETP foil
Screen:	tinned copper braiding
Jacket material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	gray

Outstanding features:

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

Technical data:

Peak operating voltage:	max. 500 V
Testing voltage U:	2000 V core/screen 1200 V
Min. bending radius	
<i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
<i>for continuous flexing:</i>	12 x O.D.
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature range	
<i>static:</i>	-30/+70 °C
<i>flexing:</i>	-5/+70 °C
Oil resistance:	acc. to internal standard, see page L/23
Chem. resistance:	see page L/9
Absence of harmful substances:	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page L/23

item no.	dimensions	nominal outer- inch	outer- mm	cable weight ≈ lbs/mft
▶ 08070050	20 AWG / 9c	±10%	±10%	0.331 8.4 72

Other dimensions and colors are possible on request.

SERVO MOTOR CABLES

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

IERSEN · SL 808 C 10 x 0,14 mm² + 2 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

SL 808 C is a continuous flexible, multi-conductor, tinned copper shielded transmission cable for use in speedometers, brake as well as control in motor temperature and for continuous flexible applications in automation and control. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

Construction:

Conductor:	bare copper strands acc. to DIN VDE 0295 class 5 + IEC 60228 class 5 + HD 383 class 5
Insulation:	PE 2Y11 acc. to DIN VDE 0207 part 2
Color code:	colored
Stranding:	in layers or pairwise
Screen:	acc. to dimension: conductors/pairs screened with tinned copper braid
Wrapping:	PETP foil
Stranding:	conductors/pairs twisted together in layers
Wrapping:	PETP foil
Screen:	tinned copper braiding
Jacket material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	gray

Outstanding features:

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

Technical data:

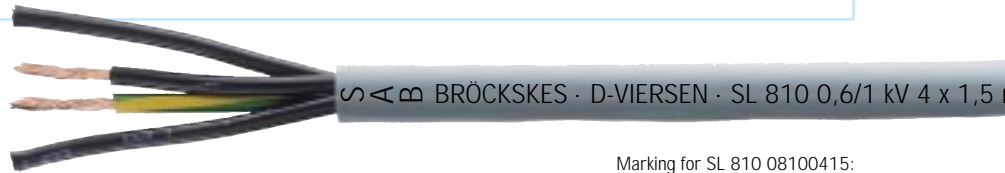
Peak operating voltage:	max. 350 V
Testing voltage U:	2000 V core/screen 1200 V
Min. bending radius	
<i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
<i>for continuous flexing:</i>	12 x O.D.
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature range	
<i>static:</i>	-30/+70 °C
<i>flexing:</i>	-5/+70 °C
Oil resistance:	acc. to internal standard, see page L/23
Chem. resistance:	see page L/9
Absence of harmful substances:	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page L/23

item no.	dimensions	nominal outer-ø		cable weight ≈ lbs/mft
		inch ±10%	mm ±10%	
▶ 08080009	24 AWG / 4pr + 20 AWG / 2c	0.319	8.1	55
▶ 08080010	24 AWG / 4pr + 18 AWG / 2c	0.331	8.4	62
▶ 08080012	26 AWG / 4pr + 20 AWG / 4c	0.327	8.3	57
▶ 08080112	26 AWG / 10c + 20 AWG / 2c	0.291	7.4	49
▶ 08080114	26 AWG / 10c + 20 AWG / 4c	0.315	8.0	62
▶ 08080013	22 AWG / 4pr + 20 AWG / 4c	0.398	10.1	86
▶ 08080020	26 AWG / 3pr + 18 AWG / 2c	0.323	8.2	67
▶ 08080022	26 AWG / 3pr + 20 AWG / 2c	0.323	8.2	67

Other dimensions and colors are possible on request.

SERVO MOTOR CABLES

SL 810 PVC motor connection cable 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

SL 810 is a flexible motor connection cable for use in automation technology, control and product technology, industrial motor connection and in drive systems.

Construction:

Conductor:	bare copper strands acc. to DIN VDE 0295 class 5 + IEC 60228 class 5 + HD 383 class 5
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	black conductors with consecutive numbers acc. to DIN VDE 0293 + HD 186; green-yellow earth wire from 3 conductors
Stranding:	in layers
Jacket material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	gray

Technical data:

Nominal voltage:	U ₀ /U 0.6/1 kV
Testing voltage U:	4000 V
Min. bending radius	
<i>fixed installation:</i>	4 x O.D.
<i>free movement:</i>	6 x O.D.
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature range	
<i>static:</i>	-40/+70 °C
<i>flexing:</i>	+5/+70 °C
Oil resistance:	acc. to internal standard, see page L/23
Chem. resistance:	see page L/9
Absence of harmful substances:	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page L/23

Outstanding features:

- high functionality
- good handling

item no.	no. of conductors incl. ground	nominal outer- \varnothing inch $\pm 10\%$	mm $\pm 10\%$	cable weight \approx lbs/mft
▶ 16 AWG (27-29/30) • 1.50 mm²				
08100415	4	0.378	9.6	95
08100515	5	0.429	10.9	122
▶ 14 AWG (46/36) • 2.50 mm²				
08100425	4	0.449	11.4	141
08100525	5	0.492	12.5	173
▶ 12 AWG (52/28) • 4.00 mm²				
08100440	4	0.524	13.3	203
08100540	5	0.571	14.5	247

item no.	no. of conductors incl. ground	nominal outer- \varnothing inch $\pm 10\%$	mm $\pm 10\%$	cable weight \approx lbs/mft
▶ 10 AWG (78/28) • 6.00 mm²				
08100460	4	0.587	14.9	274
08100560	5	0.642	16.3	334
▶ 8 AWG (77/26) • 10.00 mm²				
08100470	4	0.815	20.7	505
08100570	5	0.890	22.6	615
▶ 6 AWG (119/26) • 16.00 mm²				
08100480	4	0.949	24.1	718
08100580	5	1.039	26.4	880

item no.	no. of conductors incl. ground	nominal outer- \varnothing inch $\pm 10\%$	mm $\pm 10\%$	cable weight \approx lbs/mft
▶ 4 AWG (169/26) • 25.00 mm²				
08100490	4	1.154	29.3	1117
08100590	5	1.264	32.1	1370
▶ 2 AWG (280/26) • 35.00 mm²				
08100495	4	1.283	32.6	1476
▶ 1 AWG (400/26) • 50.00 mm²				
08100496	4	1.465	37.2	2017
▶ 2/0 AWG (554/26) • 70.00 mm²				
08100497	4	1.693	43.0	2802

Other dimensions and colors are possible on request.

SERVO MOTOR CABLES

suitable for
cable tracks

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

KSKES · 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

The SL 811 is a very flexible, continuous flex motor power supply cable which has been designed for automated servo systems. This cable is ideally suited for automated applications, such as cable tracks, automated handling equipment, pick-and place units, gantry robots, machine tools, and other continuous movement applications.

Construction:

Conductor:	bare copper strands acc. to DIN VDE 0295 class 6 + IEC 60228 class 6 + HD 383 class 6
Insulation:	PVC T12 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	black conductors with consecutive numbers acc. to DIN VDE 0293 + HD 186 and a green-yellow earth wire
Stranding:	in layers
Wrapping:	non-woven tape
Jacket material:	PUR, TPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	gray

Outstanding features:

- flexible
- rugged jacket
- oil resistant

Technical data:

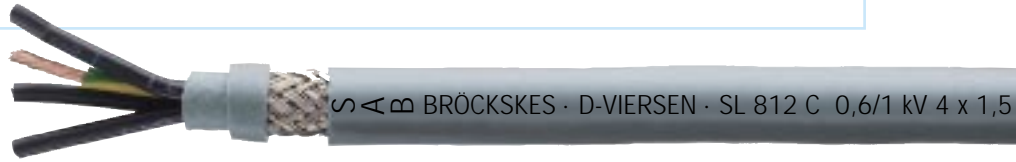
Nominal voltage:	U ₀ /U 0.6/1 kV
Testing voltage U:	4000 V
Min. bending radius	
<i>fixed installation:</i>	4 x O.D.
<i>free movement:</i>	6 x O.D.
<i>for continuous flexing:</i>	10 x O.D.
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range	
<i>static:</i>	-40/+70 °C
<i>flexing:</i>	+5/+70 °C
Oil resistance:	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-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page L/23

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item no.	no. of conductors incl. ground	nominal outer-ø inch ±10%	nominal outer-ø mm ±10%	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch ±10%	nominal outer-ø mm ±10%	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch ±10%	nominal outer-ø mm ±10%	cable weight ≈ lbs/mft
▶ 16 AWG (27-29/30) • 1.50 mm²					▶ 10 AWG (78/28) • 6.00 mm²					▶ 4 AWG (169/26) • 25.00 mm²				
08110415	4	0.366	9.3	83	08110460	4	0.610	15.5	269	08110490	4	1.016	25.8	909
08110515	5	0.417	10.6	107	08110560	5	0.673	17.1	333	08110590	5	1.122	28.5	1134
▶ 14 AWG (46/36) • 2.50 mm²					▶ 8 AWG (77/26) • 10.00 mm²					▶ 2 AWG (280/26) • 35.00 mm²				
08110425	4	0.469	11.9	132	08110470	4	0.728	18.5	415	08110495	4	1.146	29.1	1201
08110525	5	0.512	13.0	163	08110570	5	0.803	20.4	524	▶ 1 AWG (400/26) • 50.00 mm²				
▶ 12 AWG (52/28) • 4.00 mm²					▶ 6 AWG (119/26) • 16.00 mm²					08110496				
08110440	4	0.524	13.3	189	08110480	4	0.846	21.5	610	4	1.472	37.4	1786	
08110540	5	0.575	14.6	234	08110580	5	0.937	23.8	761	Other dimensions and colors are possible on request.				

SERVO MOTOR CABLES

SL 812 C PVC motor connection cable with overall copper screen 0.6/1 kV



Marking for SL 812 C 08120415:
SAB BRÖCKSKES · D-VIERSEN · SL 812 C 0,6/1 kV 4 x 1,5 mm² CE

SL 812 C is a flexible, tinned copper shielded motor connection cable for DNC motors. This cable is used in automation technology, control and product engineering, machine and industrial motor and in drive systems, as well as power supply cable between frequency converter and servo motor. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

Construction:

Conductor:	bare copper strands acc. to DIN VDE 0295 class 5 + IEC 60228 class 5 + HD 383 class 5
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	black conductors with consecutive numbers acc. to DIN VDE 0293 + HD 186; green-yellow earth wire from 3 conductors
Stranding:	in layers
Inner jacket:	PVC
Screen:	tinned copper braiding
Jacket material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	gray

Technical data:

Nominal voltage:	U ₀ /U 0.6/1 kV
Testing voltage U:	4000 V
Min. bending radius	
<i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature range	
<i>static:</i>	-40/+70 °C
<i>flexing:</i>	+5/+70 °C
Oil resistance:	acc. to internal standard, see page L/23
Chem. resistance:	see page L/9
Absence of harmful substances:	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page L/23

Outstanding features:

- very good EMC characteristics
- high functionality
- good handling

item no.	no. of conductors incl. ground	nominal outer-ø inch ±10%	nominal outer-ø mm ±10%	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch ±10%	nominal outer-ø mm ±10%	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch ±10%	nominal outer-ø mm ±10%	cable weight ≈ lbs/mft
▶ 16 AWG (27-29/30) • 1.50 mm ²					▶ 10 AWG (78/28) • 6.00 mm ²					▶ 4 AWG (169/26) • 25.00 mm ²				
08120415	4	0.520	13.2	179	08120460	4	0.744	18.9	415	08120490	4	1.260	32.0	1304
08120515	5	0.571	14.5	214	08120560	5	0.799	20.3	485	08120590	5	1.390	35.3	1642
▶ 14 AWG (46/36) • 2.50 mm ²					▶ 8 AWG (77/26) • 10.00 mm ²					▶ 2 AWG (280/26) • 35.00 mm ²				
08120425	4	0.606	15.4	251	08120470	4	0.925	23.5	639	08120495	4	1.425	36.2	1773
08120525	5	0.650	16.5	288	08120570	5	1.000	25.4	757	▶ 1 AWG (400/26) • 50.00 mm ²				
▶ 12 AWG (52/28) • 4.00 mm ²					▶ 6 AWG (119/26) • 16.00 mm ²					08120496 4 1.575 40.0 2314				
08120440	4	0.697	17.7	334	08120480	4	1.059	26.9	880	Other dimensions and colors are possible on request.				
08120540	5	0.744	18.9	397	08120580	5	1.150	29.2	1052					

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SERVO MOTOR CABLES

suitable for
cable tracks

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

CKSKES · D-VIERSEN · SL 813 C 0,6/1 kV 4 x 1,5 mm² CE



Marking for SL 813 C 08130415:

SAB BRÖCKSKES · D-VIERSEN · SL 813 C 0,6/1 kV 4 x 1,5 mm² CE

The SL 813 C is a shielded continuous flex, motor power supply cable which has been designed for automated servo systems. This cable is ideally suited for automated applications, such as cable tracks, automated handling equipment, pick-and place units, gantry robots, machine tools, and other continuous movement applications. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

Construction:

Conductor:	bare copper strands acc. to DIN VDE 0295 class 6 + IEC 60228 class 6 + HD 383 class 6
Insulation:	PVC TI2 acc. to DIN VDE 0281 part1 + HD 21.1
Color code:	black conductors with consecutive numbers acc. to DIN VDE 0293 + HD 186 and a green-yellow earth wire
Stranding:	in layers
Inner jacket:	PVC TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	orange

Outstanding features:

- very good EMC characteristics
- flexible
- rugged jacket
- oil resistant

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 installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
<i>for continuous flexing:</i>	12 x O.D.
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range	
<i>static:</i>	-40/+70 °C
<i>flexing:</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-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page L/23

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item no.	no. of conductors incl. ground	nominal outer-Ø inch ±10%	outer-Ø mm ±10%	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-Ø inch ±10%	outer-Ø mm ±10%	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-Ø inch ±10%	outer-Ø mm ±10%	cable weight ≈ lbs/mft
➤ 16 AWG (27-29/30) • 1.50 mm ²					➤ 10 AWG (78/28) • 6.00 mm ²					➤ 4 AWG (169/26) • 25.00 mm ²				
08130415	4	0.488	12.4	153	08130460	4	0.756	19.2	493	08130490	4	1.209	30.7	1185
08130515	5	0.539	13.7	192	08130560	5	0.819	20.8	399	08130590	5	1.315	33.4	1460
➤ 14 AWG (46/36) • 2.50 mm ²					➤ 8 AWG (77/26) • 10.00 mm ²					➤ 2 AWG (280/26) • 35.00 mm ²				
08130425	4	0.606	15.4	232	08130470	4	0.906	23.0	589	08130495	4	1.339	34.0	1517
08130525	5	0.657	16.7	282	08130570	5	0.996	25.3	737	08130595	5	1.472	37.4	1847
➤ 12 AWG (52/28) • 4.00 mm ²					➤ 6 AWG (119/26) • 16.00 mm ²					➤ 1 AWG (400/26) • 50.00 mm ²				
08130440	4	0.669	17.0	302	08130480	4	1.039	26.4	835	08130596	4	1.547	39.3	2067
08130540	5	0.736	18.7	386	08130580	5	1.130	28.7	1024					

Other dimensions and colors are possible on request.

SERVO MOTOR CABLES

extremely long service life

SL 823 C PUR motor connection cable with TPE conductors 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 CE

The SL 823 C is a halogen free, super flexible, shielded, continuous flex motor supply cable which has been designed for automated servo systems. The flexible design makes this cable ideally suited for small bend radius applications, such as cable tracks, automated handling equipment, and other continuous movement applications. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmissions, or when EMI emissions need to be suppressed.

Construction:

Conductor:	bare copper strands acc. to DIN VDE 0295 class 6 + IEC 60228 class 6 + HD 383 class 6
Insulation:	TPE 510
Color code:	black conductors with consecutive numbers acc. to DIN VDE 0293 + HD 186 and a green-yellow earth wire
Stranding:	in layers
Wrapping:	two layers of non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PUR, TPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	orange

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 installation:</i>	5 x O.D.
<i>free movement:</i>	7.5 x O.D.
<i>for continuous flexing:</i>	12 x O.D.
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range	
<i>static:</i>	-50/+90 °C
<i>flexing:</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-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page L/23

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

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 16 AWG (27-29/30) • 1.50 mm ²					▶ 10 AWG (78/28) • 6.00 mm ²					▶ 4 AWG (169/26) • 25.00 mm ²				
08230415	4	0.374	9.5	95	08230460	4	0.626	15.9	282	08230490	4	1.004	25.5	916
▶ 14 AWG (46/36) • 2.50 mm ²					▶ 8 AWG (77/26) • 10.00 mm ²					▶ 2 AWG (280/26) • 35.00 mm ²				
08230425	4	0.469	11.9	146	08230470	4	0.728	18.5	421	08230495	4	1.161	29.5	1242
▶ 12 AWG (52/28) • 4.00 mm ²					▶ 6 AWG (119/26) • 16.00 mm ²					▶ 1 AWG (400/26) • 50.00 mm ²				
08230440	4	0.512	13.0	194	08230480	4	0.882	22.4	648	08230496	4	1.358	34.5	1716

Other dimensions and colors are possible on request.

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