

400 Hz

GROUND POWER CABLES

CABLES

FOR AIRPORT EQUIPMENT



www.sab-cable.com





TRADITIONAL
FAMILY BUSINESS
SINCE 1947

Family business in the third generation

75 years of experience in cable and wire manufacturing as well as in temperature measurement technology turned a one-man business into a company with more than 550 employees. We prove our strength every year with more than 1500 special products according to customers' requirements. Each product is a new challenge for our creative technical team. We at **SAB** see ourselves as a manufacturer and a service provider – in the sense of true partnership and the greatest possible customer orientation.

Today, the quality of our products is known and appreciated in more than 100 countries around the world. In all product ranges, we are certified according to DIN EN ISO 9001. Furthermore, we have implemented an environmental management system for our company according to DIN EN ISO 14001, an occupational health and safety management system according to NLF/ILO-OSH and DIN ISO 45001, and an energy management system according to DIN EN ISO 50001.

And also for the future, our slogan is: **"WE GO FORWARD!"**

FOUNDED:	1947 by Peter Bröckskes sen. an independent, medium-sized company.
CEO:	Peter Bröckskes and Sabine Bröckskes-Wetten
PLANT/LOCATION:	In Viersen (Lower Rhine) 110.000 m ² company site. Own manufacturing from copper conductor to outer sheath. VDE approved burnchamber and laboratory within the company.
EMPLOYEES/WORKERS:	approx. 430 at the plant in Viersen, 550 worldwide
YEARLY SALES:	over 134 Mio. € worldwide
PRODUCTS:	Special Cables Measurement Technology Cable Harnessing
CERTIFICATES AND APPROVALS:	Quality management system acc. to DIN EN ISO 9001 for every manufacturing field Environmental management system acc. to DIN EN ISO 14001 Occupational health and safety management acc. to NLF/ILO-OSH and DIN ISO 45001 Energy management system acc. to DIN EN ISO 50001



Ground Power Support / Airport Equipment

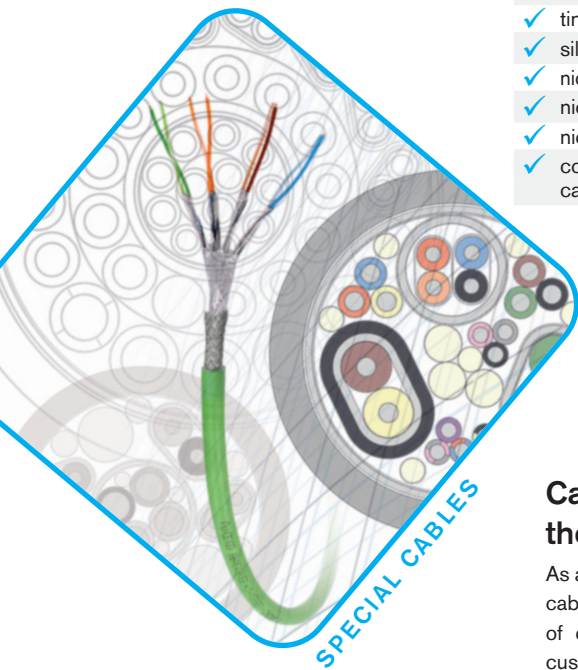
Production possibilities

Flexible cables and wires “Made in Germany”

As a leading manufacturer we develop and produce cables for industrial purposes.

Our wide range of materials offers a lot of possibilities for your individual product requirement.

The following survey shows an extract of our production possibilities:



Conductor Materials:

- ✓ bare copper
- ✓ tinned copper
- ✓ silver plated copper
- ✓ nickel plated copper
- ✓ nickel
- ✓ nickel pure
- ✓ compensating cable alloys

Insulation and Jacketing Materials:

- ✓ PVC
- ✓ Polyethylene
- ✓ Polypropylene
- ✓ Polyurethane
- ✓ TPE
- ✓ SABIX® (zero halogen)
- ✓ Besilen® - Silicone
- ✓ FEP, ETFE, PFA, PTFE
- ✓ PI foil
- ✓ Fibreglass

Temperature Ranges:

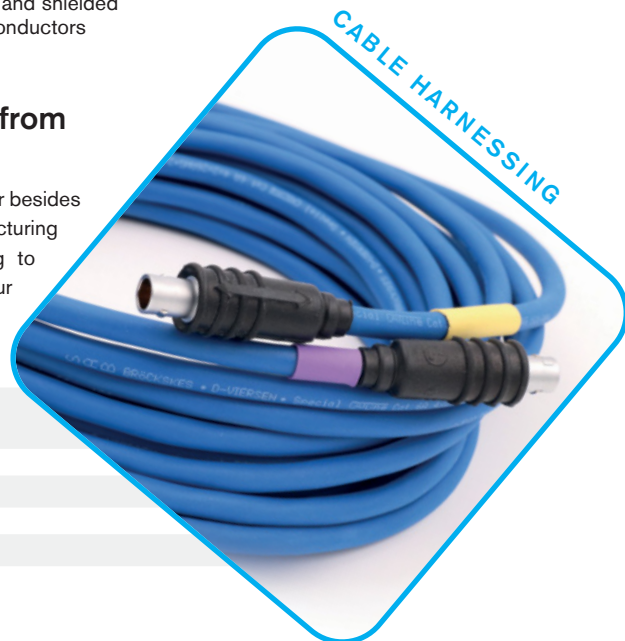
- Thermoplastic Elastomers
- ✓ -50°C up to +145°C
- SABIX®
- ✓ -50°C up to +220°C
- Besilen® - Silicone
- ✓ -40°C up to +220°C
- FEP, ETFE, PFA
- ✓ -90°C up to +260°C
- Fibreglass
- ✓ up to +600°C

Conductors:

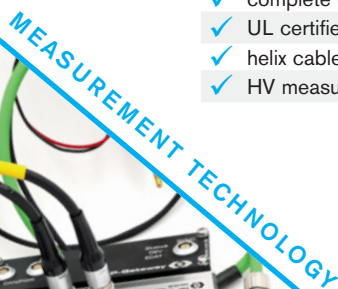
- ✓ cross sections 0,055 - 300 mm²
- ✓ unshielded and shielded over 100 conductors

Cable harnessing directly from the manufacturer SAB:

As a full service partner we are able to offer besides cable design and production the manufacturing of cable harnessing products according to customer's request. Please trust on our experience for decades in the treatment of cables and connectors.



- ✓ cable harness according to customer's demands
- ✓ complete cable harness
- ✓ UL certified assemblies
- ✓ helix cables
- ✓ HV measuring harness











Measuring technology for industrial applications

Manufacturer of temperature sensors for industrial applications with 75 years of experience!

- ✓ mineral insulated thermocouples
- ✓ mineral insulated resistance thermometers
- ✓ temperature sensors
- ✓ mobile high voltage measuring technology
- ✓ temperature sensors for vehicle testing

Ground Power Support / Airport Equipment

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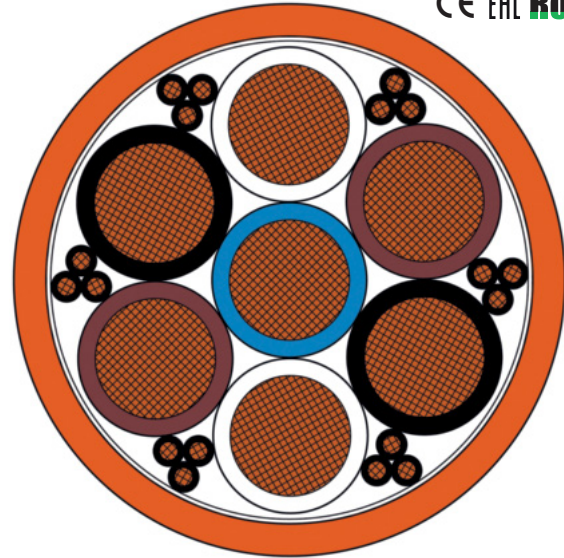
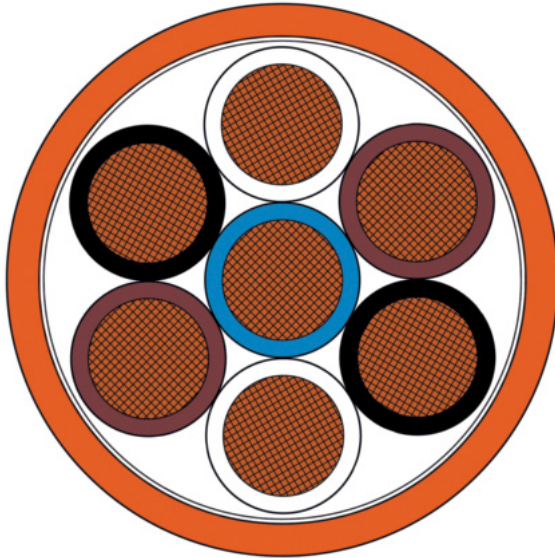
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400 Hz Ground Power

GP 400 Sy

400 Hz Ground Power supply cable - Symmetrical

for fixed installation



Application: For use as fixed installed cable in 400 Hz systems, e.g. between 400 Hz generator and cable dispenser.

Construction:

Conductor:	bare copper strands
Insulation	35,0mm ² : PVC 1,0mm ² : SABIX® C
Colour code:	control cores: black with numbers 1-18 neutral core: blue phase core: white, brown, black (two conductors of the same colour form the phase)
Stranding:	phase conductor concentrically around the neutral conductor, control conductors as triple in the fillers
Sheath material:	PVC
Sheath colour:	orange
Marking:	SAB BRÖCKSKES · D-VIERSEN · GP 400 Sy 7x35,0mm ² +6x3x1,0mm ² 3400-7213 CE and current meter marking

Technical Data:

Nominal voltage:	U ₀ /U 0,6/1 kV
Testing voltage:	core/core 4000 V AC
Min. bending radius	
fixed laying:	4 x d
flexible application:	8 x d
Temperature range	
fixed laying:	-40/+70 °C
flexible application:	+5/+70 °C
Absence of harmful substances:	acc. to RoHS directive of the European Union

Outstanding features:



- reduced outer diameter

Item. no	no. of cores x cross section n x mm ²	outer-Ø approx. mm	copper figure kg/km	cable weight ≈ kg/km	DC resistance at 20°C max. Ω/km	voltage drop [mV/(A*m)]
34007210	7 x 35,0 mm ²	37,0	2352,0	3003	35,0 mm ² : 0,554	35,0 mm ² : 1,108
34007213	7 x 35,0 mm ² + 6 x 3 x 1,0 mm ²	37,0	2524,8	3125	35,0 mm ² : 0,554 1,0 mm ² : 19,5	35,0 mm ² : 1,108 1,0 mm ² : 39,0

Other dimensions and colours are possible on request.



Also available
with 24 control cores!

400 Hz Ground Power

GP 400 SC

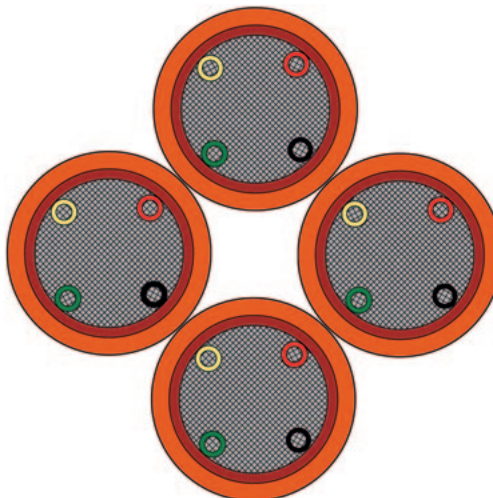
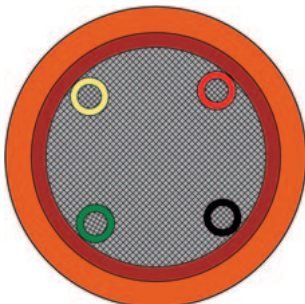
400 Hz Ground Power supply cable - SingleCore

GP 400 QF

400 Hz Ground Power supply cable - QuadFlex

Cable harnessing possible on request!

for flexible application



Application: For use in flexible applications, e.g. on mobile generators, in cable dispensers in the ground or on the passenger bridge.

Construction:

Conductor:	tinned copper strands
Insulation:	SABIX®
Colour code:	control cores: red, black, green, yellow power supply core: red
Stranding:	control cores within the power supply core
Sheath material:	PUR
Sheath colour:	orange
Stranding:	GP 400 QF: openly stranded
Marking GP 400 SC:	SAB BRÖCKSKES · D-VIERSEN · GP 400 SC (50,0mm ² +4x1,0mm ²) 3400-1321 CE and current meter marking
Marking GP 400 QF:	SAB BRÖCKSKES · D-VIERSEN · GP 400 QF 4x(50,0mm ² +4x1,0mm ²) 3400-4321 L1 resp. L2 resp. L3 resp. N CE and current meter marking

Technical Data:

Nominal voltage:	U ₀ /U 115/200 V
Max. permissible operating voltage*:	U ₀ /U 0,6/1 kV
Testing voltage:	core/core 4000 V AC
Min. bending radius	
fixed laying:	4 x d
flexible application:	6 x d
Temperature range	
fixed laying:	-50/+90 °C
flexible application:	-40/+90 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Oil resistance:	very good - TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union

Outstanding features:



- low capacity insulation
- abrasion-resistant PUR sheath
- control cores symmetrically arranged inside power supply core
- cold flexible
- halogen-free
- oil resistant
- weather resistant

* using all wires on one potential

GP 400 SC

34001321	1 x (50,0 mm ² + 4 x 1,0 mm ²)	15,6	524,0	587	50,0 mm ² : 0,393 1,0 mm ² : 20,0	50,0 mm ² : 0,786 1,0 mm ² : 40,0
34001421	1 x (70,0 mm ² + 4 x 1,0 mm ²)	17,7	739,2	800	70,0 mm ² : 0,277 1,0 mm ² : 20,0	70,0 mm ² : 0,554 1,0 mm ² : 40,0
34001521	1 x (95,0 mm ² + 4 x 1,0 mm ²)	19,6	940,8	1032	95,0 mm ² : 0,210 1,0 mm ² : 20,0	95,0 mm ² : 0,420 1,0 mm ² : 40,0

GP 400 QF

34004321	4 x (50,0 mm ² + 4 x 1,0 mm ²)	37,5	2096,0	2401	50,0 mm ² : 0,393 1,0 mm ² : 20,0	50,0 mm ² : 0,786 1,0 mm ² : 40,0
34004421	4 x (70,0 mm ² + 4 x 1,0 mm ²)	42,5	2956,8	3264	70,0 mm ² : 0,277 1,0 mm ² : 20,0	70,0 mm ² : 0,554 1,0 mm ² : 40,0

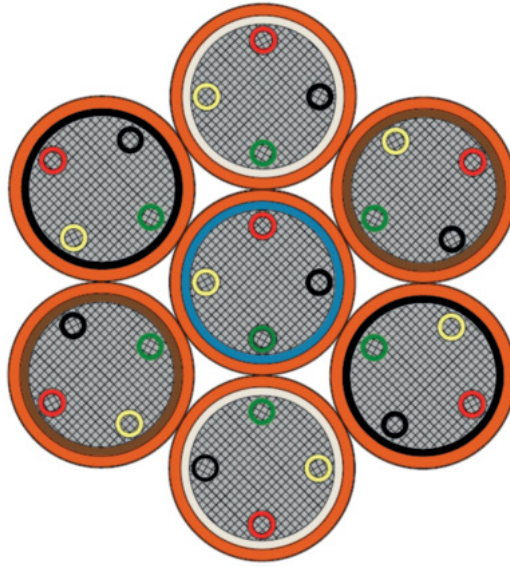
Other dimensions and colours are possible on request.

400 Hz Ground Power

GP 400 7F

400 Hz Ground Power supply cable - SevenFlex

for flexible application



Application: Symmetrical cable with high flexibility. Minimum bending radius (easy to coil even in tight spaces) and high quality electrical performance (low voltage drop and low voltage unbalance). Can be used in long lengths.

Construction:

Conductor:	tinned copper strands
Isolierhülle:	SABIX®
Colour code:	control cores: red, black, green, yellow power supply core: red
Stranding:	control cores within the power supply core
Sheath material:	PUR
Sheath colour:	orange
Stranding:	openly stranded
Marking:	SAB BRÖCKSKES · D-VIERSEN · Special GP 400 35,0mm ² +4x1,0mm ² 3400-9006 CE and current meter marking

Technical Data:

Nominal voltage:	U ₀ /U 0,6/1 kV
Testing voltage:	core/core 4000 V AC
Min. bending radius	
fixed laying:	4 x d
flexible application:	6 x d
Temperature range	
fixed laying:	-50/+90 °C
flexible application:	-40/+90 °C
Absence of harmful substances:	acc. to RoHS directive of the European Union

Outstanding features:



- low capacity insulation
- abrasion-resistant PUR sheath
- control cores symmetrically arranged inside power supply core
- cold flexible
- halogen-free
- oil resistant
- weather resistant

Item. no	no. of cores x cross section n x mm ²	outer-Ø approx. mm	copper figure kg/km	cable weight ≈ kg/km	DC resistance at 20°C max. Ω/km	voltage drop [mV/(A*m)]
34009006	7 x (35,0 mm ² + 4 x 1,0 mm ²)	40,2	2654,4	2969,2	35,0 mm ² : 0,554 1,0 mm ² : 19,5	35,0 mm ² : 1,108 1,0 mm ² : 39,0

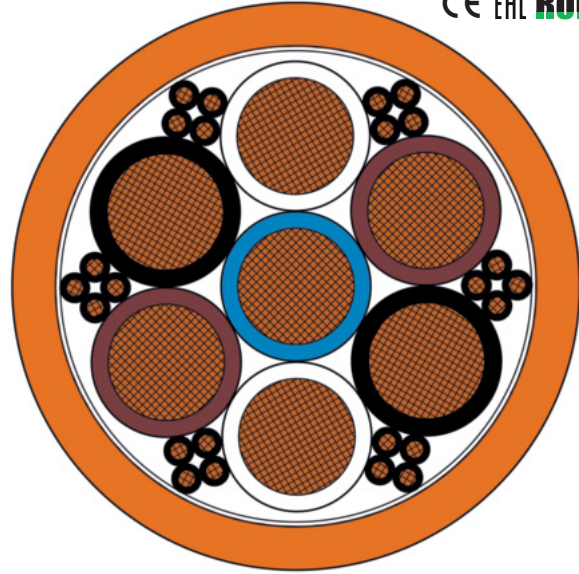
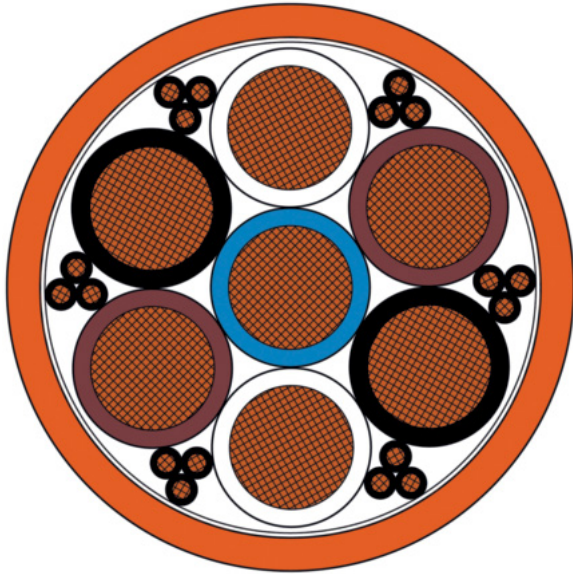
Other dimensions and colours are possible on request.

400 Hz Ground Power

GP 400 SF

400 Hz Ground Power supply cable - SymmetricalFlex

for flexible application



Application: For use as fixed cable with particularly good laying ability or for flexible use without high mechanical stress, e.g. in slow-moving drag chains on passenger boarding bridges. Optimized flexibility due to flexible core and sheath materials, thus easy installation and easy handling in the cable dispenser. Depending on the operating conditions, it can also be used as a direct supply line to the aircraft with a connector.

Construction:

Conductor:	bare copper strands
Insulation:	SABIX®
Colour code:	control cores: black with numbers 1-18 neutral core: blue phase core: white, brown, black (two cores of the same colour form the phase)
Stranding:	Phase conductors concentrically around neutral core, control cores as tripple in the interstices
Sheath material:	special compound
Sheath colour:	orange
Marking:	SAB BRÖCKSKES · D-VIERSEN · GP 400 SF 7x35,0mm ² +6x3x1,0mm ² 3400-7223 CE and current meter marking

Technical Data:

Nominal voltage:	U ₀ /U 0,6/1 kV
Testing voltage:	core/core 4000 V AC
Min. bending radius	
fixed laying:	4 x d
flexible application:	6 x d
Temperature range	
fixed laying:	-40/+70 °C
flexible application:	-20/+70 °C
Absence of harmful substances:	acc. to RoHS directive of the European Union

Outstanding features:



- low capacity insulation
- very smooth handling
- also usable as a supply cable directly on the aircraft
- very good installation in the smallest possible space
- good resistance and low wear

Item. no	no. of cores x cross section n x mm ²	outer-Ø approx. mm	copper figure kg/km	cable weight ≈ kg/km	DC resistance at 20°C max. Ω/km	voltage drop [mV/(A*m)]
34007123	7 x 25,0 mm ² + 6 x 3 x 1,0 mm ²	32,4	1852,8	2245,5	25,0 mm ² : 0,780 1,0 mm ² : 19,5	25,0 mm ² : 1,560 1,0 mm ² : 39,0
34007223	7 x 35,0 mm ² + 6 x 3 x 1,0 mm ²	37,0	2524,8	2934,5	35,0 mm ² : 0,554 1,0 mm ² : 19,5	35,0 mm ² : 1,108 1,0 mm ² : 39,0
34007224	7 x 35,0 mm ² + 6 x 4 x 1,0 mm ²	39,2	2582,4	3060,9	35,0 mm ² : 0,554 1,0 mm ² : 19,5	35,0 mm ² : 1,108 1,0 mm ² : 39,0

Other dimensions and colours are possible on request.

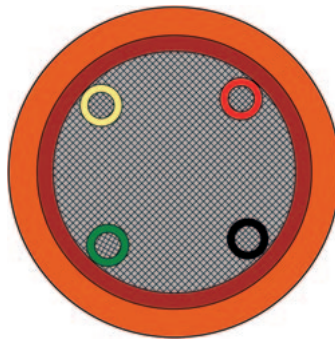
400 Hz Ground Power

GP 400 SC DC

Ground Power supply cable 28 V DC - SingleCore Direct Current

Cable harnessing possible on request!

for flexible application



Application: For use in flexible applications, e.g. on mobile generators, in cable dispensers in the ground or on the passenger bridge at 28 V DC.

Construction:

Conductor:	tinned copper strands
Insulation:	SABIX®
Colour code:	control cores: red, black, green, yellow power supply core: red
Stranding:	control cores within the power supply core
Sheath material:	PUR
Sheath colour:	orange
Marking:	SAB BRÖCKSKES · D-VIERSEN · GP 400 SC DC (120,0mm ² +4x1,0mm ²) 3400-1621 and current meter marking

Technical Data:

Voltage:	28 V DC
Testing voltage:	core/core 600 V AC
Min. bending radius	
fixed laying:	4 x d
flexible application:	6 x d
Temperature range	
fixed laying:	-50/+90 °C
flexible application:	-40/+90 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Oil resistance:	very good - TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union

Outstanding features:

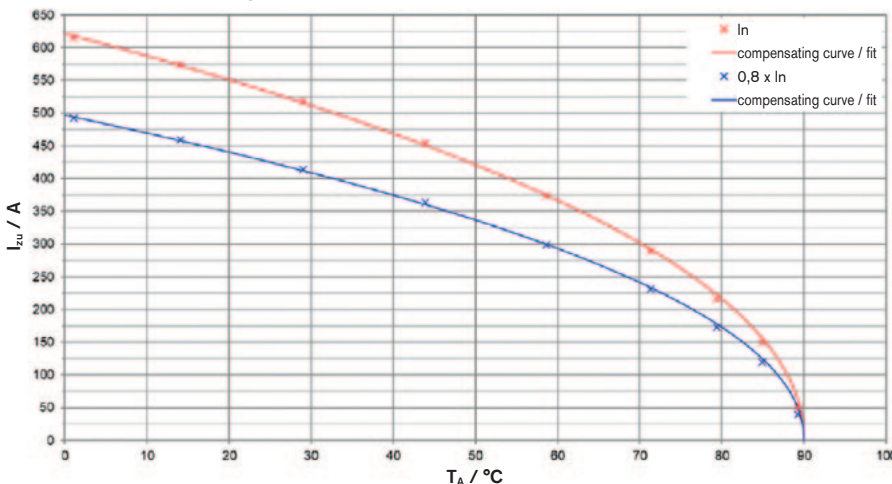


- low capacity insulation
- abrasion-resistant PUR sheath
- control cores symmetrically arranged inside power supply core
- cold flexible
- halogen-free
- oil resistant
- weather resistant

Item. no	no. of cores x cross section n x mm ²	outer-Ø approx. mm	copper figure kg/km	cable weight ≈ kg/km	DC resistance at 20°C max. Ω/km	voltage drop [mV/(A*m)]
34001621	1 x (120,0 mm ² + 4 x 1,0 mm ²)	22,2	1296,0	1331	120 mm ² : 0,164 1,0 mm ² : 20,0	120 mm ² : 0,328 1,0 mm ² : 40,0

Other dimensions and colours are possible on request.

Determination of the derating curve acc. to LV112-3 based on item no. 3400-1621



Reference value of current carrying capacity from derating curve

for 20°C ambient temperature, taken from 80% curve: **440 A**

for 20°C ambient temperature, taken from 100 % curve: **550 A**

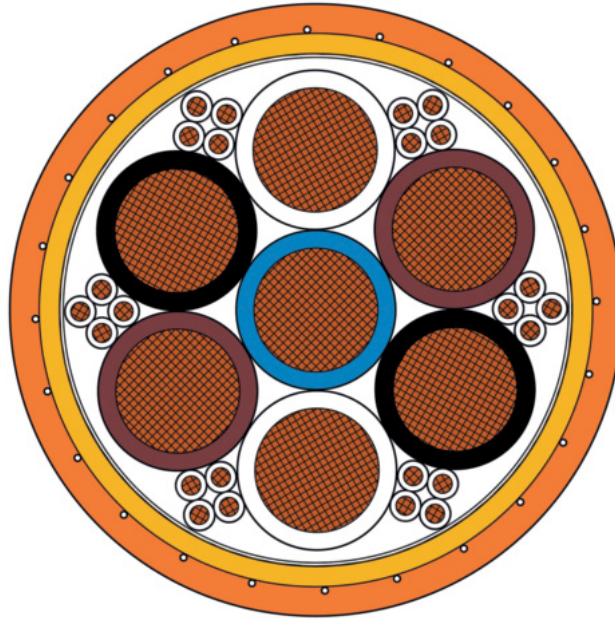
precondition:
laying separately free in air

400 Hz Ground Power

GP 400 SF DR

400 Hz Ground Power supply cable - SymmetricalFlex Drum

for reeling application



Application: For use as a reeling cable on motor or spring-driven cables reels in 400 Hz power systems.

Construction:

Conductor:	bare copper strands
Insulation:	SABIX®
Colour code:	control cores: white with numbers 1-24 neutral core: blue phase core: white, brown, black (two cores of the same colour form the phase)
Stranding:	phase conductors concentrically around neutral core, control cores as a quad in the interstices
Inner sheath:	PUR, rape yellow
Supporting screen:	Aramid
Sheath material:	PUR
Sheath colour:	orange
Marking:	SAB BRÖCKSKES · D-VIERSEN · GP 400 SF DR 7x35,0mm ² +6x4x1,0mm ² 3400-7244 CE and current meter marking

Technical Data:

Nominal voltage:	U ₀ /U 0,6/1 kV
Testing voltage:	core/core 4000 V AC
Min. bending radius	
<i>fixed laying:</i>	4 x d
<i>for repeated winding action:</i>	7,5 x d
<i>guided on deflection pulleys:</i>	10 x d
Temperature range	
<i>fixed laying:</i>	-50/+90 °C
<i>flexible application:</i>	-40/+90 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Oil resistance:	very good - TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union

Outstanding features:



- low capacity insulation
- reelable
- high abrasion resistance
- weather resistant
- oil- and chemical resistant
- halogen-free

Item. no	no. of cores x cross section n x mm ²	outer-Ø approx. mm	copper figure kg/km	cable weight ≈ kg/km	DC resistance at 20°C max. Ω/km	voltage drop [mV/(A*m)]
34007244	7 x 35,0 mm ² + 6 x 4 x 1,0 mm ²	41,4	2582,4	3380	35,0 mm ² : 0,554 1,0 mm ² : 19,5	35,0 mm ² : 1,108 1,0 mm ² : 39,0

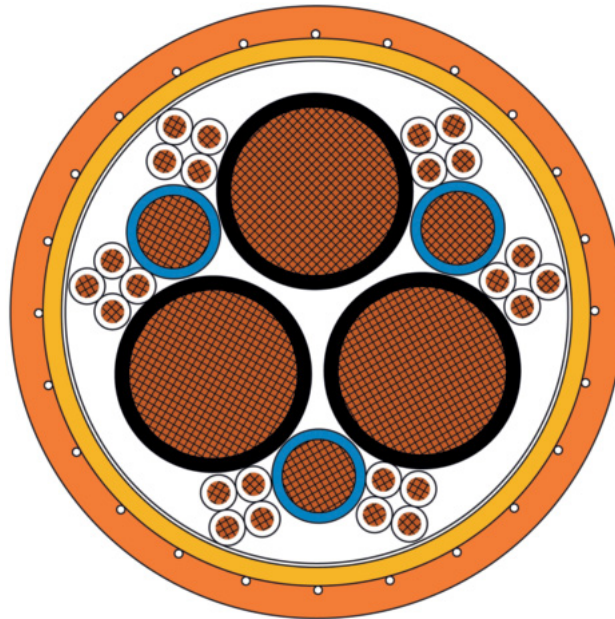
Other dimensions and colours are possible on request.

400 Hz Ground Power

GP 400 TF DR

400 Hz Ground Power supply cable - TripleFlex Drum

for insert lengths up to 20 m
for reeling application



Application: For use as a reeling cable on motor or spring-driven cables reels in 400 Hz power systems.

Construction:

Conductor:	bare copper strands
Insulation:	SABIX®
Colour code:	control cores: white with numbers 1-24 neutral cores: blue phase cores: black with numbers 1-3
Stranding:	phase conductors together with tripled neutral core and control cores in the interstices
Inner sheath:	PUR, rape yellow
Supporting screen:	Aramid
Sheath material:	PUR
Sheath colour:	orange
Marking:	SAB BRÖCKSKES · D-VIERSEN · GP 400 TF DR 3x50,0mm ² + 3x10,0mm ² +6x4x1,0mm ² 3400-3344 CE and current meter marking

Technical Data:

Nominal voltage:	U ₀ /U 0,6/1 kV
Testing voltage:	core/core 4000 V AC
Min. bending radius	
<i>fixed laying:</i>	4 x d
<i>for repeated winding action:</i>	7,5 x d
<i>guided on deflection pulleys:</i>	10 x d
Temperature range	
<i>fixed laying:</i>	-50/+90 °C
<i>flexible application:</i>	-40/+90 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Oil resistance:	very good - TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union

Outstanding features:



- low capacity insulation
- reelable
- high abrasion resistance
- weather resistant
- oil- and chemical resistant
- halogen-free

Item. no	no. of cores x cross section n x mm ²	outer-Ø approx. mm	copper figure kg/km	cable weight ≈ kg/km	DC resistance at 20°C max. Ω/km	voltage drop [mV/(A*m)]
34003344	3 x 50,0 mm ² + 3 x 10,0 mm ² + 6 x 4 x 1,0 mm ²	34,1	1958,4	2377	50,0 mm ² : 0,386 10,0 mm ² : 1,91 1,0 mm ² : 19,5	50,0 mm ² : 0,772 10,0 mm ² : 3,82 1,0 mm ² : 39,0
34003444	3 x 70,0 mm ² + 3 x 12,0 mm ² + 6 x 4 x 1,0 mm ²	39,0	2592,0	3080	70,0 mm ² : 0,272 12,0 mm ² : 1,63 1,0 mm ² : 19,5	70,0 mm ² : 0,554 12,0 mm ² : 3,26 1,0 mm ² : 39,0

Other dimensions and colours are possible on request.

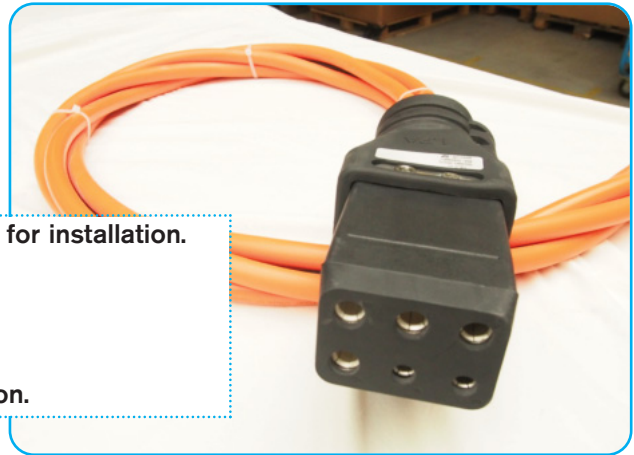
400 Hz Ground Power

Plug'n'Play - ready harnessed with plug connector

Ready-to-connect ground power cables with plug connectors

SAB Bröckskes also supplies 400 Hz cables ready for installation.
Various 400 Hz connectors available.

- on request also with cable lugs.
- each confection is packed safely and individually.
- each product is tested for function.
- on request with test report for 100% documentation.

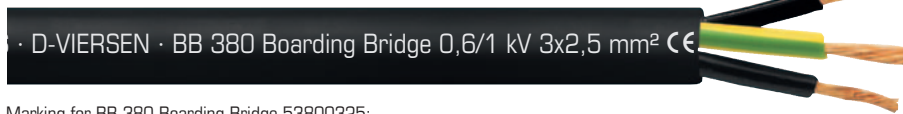


Cables for Airport Equipment

BB 380 Boarding Bridge

cable for the flexible application in passenger bridges

screened version
on request!



Marking for BB 380 Boarding Bridge 53800325:

SAB BRÖCKSKES · D-VIERSEN · BB 380 Boarding Bridge 0,6/1 kV 3x2,5 mm² CE

Application: For installation in passenger bridges.

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	special SABIX®
Colour code:	black cores with consecutive numbers acc. to EN 50334, green-yellow earth wire from 3 cores
Stranding:	in layers
Wrapping:	non-woven tape
Sheath material:	PUR
Sheath colour:	black (RAL 9005)

Outstanding features:



- halogen-free
- oil resistant
- weather resistant
- sunlight resistant

Technical data:

Nominal voltage:	up to 1,00 mm²: U ₀ /U 300/500 V from 1,50 mm²: U ₀ /U 0,6/1 kV
Testing voltage:	300/500 V: 3000 V 0,6/1 kV: 4000 V
Min. bending radius	
<i>fixed laying:</i>	4 x d
<i>flexible:</i>	7,5 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range	
<i>fixed laying:</i>	-40/+90 °C
<i>flexible application:</i>	-30/+90 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
Oil resistance:	very good - TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Flexibility:	very good
Weather resistance:	good
Absence of harmful substances:	acc. to RoHS directive of the European Union

item no.	no. of cores x cross section n x mm²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
53800325	3 x 2,50	0,26	10,0	72,0	146
53800525	5 x 2,50	0,26	12,2	120,0	224
53800560	5 x 6,00	0,31	15,6	288,0	426

Other dimensions and colours are possible on request.

**Also possible
as hybrid construction!**

(4x2x26AWG)Cat.6A+(3x0,25mm²)CB+10G1,0mm²



Cable Track Cables

S 200

extremely flexible TPE/PUR control cable with numbered cores for continuous movement



Marking for S 200 07741215:

SAB BRÖCKSKES · D-VIERSEN · S 200 12 x 1,5 mm² CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, VDE 0295, class 6
Insulation:	TPE
Colour code from 2 conductors	black cores with consecutive numbers acc. to EN 50334 + VDE 0293-334, green-yellow earth wire from 3 cores
Stranding:	specially adjusted layering with non-woven tape over each layer
Wrapping:	non-woven tape
Sheath material:	PUR, TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 with mat surface
Sheath colour:	grey (RAL 7000)

Outstanding features:



- **PWIS uncritical**
(PWIS = paint-wetting impairment substances)
- **flexible at low temperatures**
- **halogen-free**
- **travel > 10 m is possible**
- **high abrasion resistance**
- **small bending radius**
- **small outer diameter**

Technical Data:

Nominal voltage:	U ₀ /U 300/500 V
Testing voltage:	core/core 2000 V
Min. bending radius <i>continuously flexible:</i>	7,5 x d
Radiation resistance:	1 x 10 ⁷ cJ/kg
Temperature range <i>fixed laying:</i> <i>flexible application:</i>	-50/+90 °C -40/+90 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Oil resistance:	very good - TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union

further continuously flexible TPE/PUR data and control cables:

SD 200

Item groupe
0774

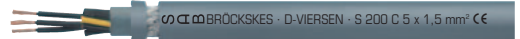
extremely flexible TPE/PUR data cable
with coloured cores for continuous movement



S 200 C

Item groupe
0784

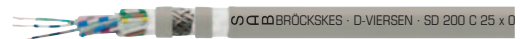
continuously flexible TPE/PUR control cable
with numbered cores and overall copper screen



SD 200 C

Item groupe
0784

continuously flexible TPE/PUR data cable
with coloured cores and overall copper screen



SD 200 C TP

Item groupe
0789

continuously flexible TPE/PUR paired data cable
with coloured cores and overall copper screen



... for more information: www.sab-cable.com

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
07740205	2 x 0,50	0,16	4,9	9,6	28
07740305	3 x 0,50	0,16	5,1	14,4	34
07740405	4 x 0,50	0,16	5,5	19,2	41
07740505	5 x 0,50	0,16	6,0	24,0	51
07740705	7 x 0,50	0,16	6,9	33,6	69
07741205	12 x 0,50	0,16	8,3	57,6	99
07741805	18 x 0,50	0,16	9,9	86,4	143
07742505	25 x 0,50	0,16	11,9	120,0	197
07740207	2 x 0,75	0,16	5,4	14,4	36
07740307	3 x 0,75	0,16	5,7	21,6	44
07740407	4 x 0,75	0,16	6,1	28,8	54
07740507	5 x 0,75	0,16	6,7	36,0	67
07740707	7 x 0,75	0,16	7,9	50,4	93
07740210	2 x 1,00	0,16	5,8	19,2	45
07740310	3 x 1,00	0,16	6,1	28,8	54
07740410	4 x 1,00	0,16	6,6	38,4	67
07740510	5 x 1,00	0,16	7,2	48,0	82
07740115	1 x 1,50	0,16	4,0	14,4	25
07740215	2 x 1,50	0,16	6,4	28,8	57
07740315	3 x 1,50	0,16	6,7	43,2	70
07740415	4 x 1,50	0,16	7,3	57,6	89
07740125	1 x 2,50	0,16	4,7	24,0	39
07740425	4 x 2,50	0,16	9,2	96,0	142
07740140	1 x 4,00	0,16	5,4	38,4	56
07740440	4 x 4,00	0,16	10,8	153,6	217
07740160	1 x 6,00	0,21	6,1	57,6	76
07740161	1 x 10,0	0,21	7,1	96,0	120
07740461	4 x 10,0	0,21	15,8	384,0	507
07740162	1 x 16,0	0,21	8,3	153,6	177
07740462	4 x 16,0	0,21	19,0	614,4	782
07740163	1 x 25,0	0,21	9,9	240,0	263
07740463	4 x 25,0	0,21	22,8	960,0	1155
07740164	1 x 35,0	0,21	11,5	336,0	367
07740165	1 x 50,0	0,31	14,0	480,0	538
07740166	1 x 70,0	0,31	16,7	672,0	754
07740167	1 x 95,0	0,31	20,5	912,0	1028
07740168	1 x 120,0	0,31	21,5	1152,0	1260
07740169	1 x 150,0	0,31	24,6	1440,0	1618
07740170	1 x 185,0	0,41	26,7	1776,0	1942
07740171	1 x 240,0	0,41	30,1	2304,0	2483

Other dimensions and colours are possible on request.



On request also with
UL recognition,
CSA approval and
improved fire performance!

Cable Track Cables

S 910 P

continuously flexible
TPE/PUR single conductor

S 910 CP

continuously flexible TPE/PUR single
conductor with overall copper screen

on request also
with green-yellow
insulation



Marking for S 910 P 37681362:

SAB BRÜCKSKES · D-VIERSEN · 37681362 16,0 mm² S 910 P 6 AWG 37680601 AWM Style 10456 80°C 600V CSA AWM I/II A/B 80°C 1000V FT1 FT2 CE



Marking for S 910 CP 37692362:

SAB BRÜCKSKES · D-VIERSEN · 37692362 16,0 mm² S 910 CP 6 AWG 37690601 AWM Style 10456 80°C 600V CSA AWM I/II A/B 80°C 1000V FT1 FT2 CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, VDE 0295, class 6
Insulation:	TPE, black
Wrapping:	non-woven tape
Screen:	S 910 CP tinned copper braiding
Sheath material:	PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 with mat surface
Sheath colour:	black (RAL 9005)

Outstanding features:



- highly flexible single conductor
for use in cable tracks
- good chemical resistance
- high abrasion resistance
- halogen-free

Technical Data:

Nominal voltage:	U ₀ /U 0,6/1 kV	
Voltage:	UL: 600 V	CSA: 1000 V
Min. bending radius <i>continuously flexible:</i>	7,5 x d	
Radiation resistance:	S 910 P 1 x 10 ⁷ cJ/kg	S 910 CP 5 x 10 ⁷ cJ/kg
Temperature range <i>fixed laying:</i> <i>flexible application:</i>	DIN VDE -50/+90 °C -40/+90 °C	UL/CSA: up to +80 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1	
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL/CSA FT1, FT2	
Oil resistance:	very good - TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2	
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.	
Continuous flexibility:	very good	
Absence of harmful substances:	acc. to RoHS directive of the European Union	

S 910 P

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	AWG/ MCM	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
37681340	1 x 4,00	0,16	12 (224/34)	6,6	38,4	69
37681360	1 x 6,00	0,21	10 (186/32)	7,5	57,6	94
37681361	1 x 10,00	0,21	8 (320/32)	8,4	96,0	138
37681362	1 x 16,00	0,21	6 (512/32)	9,9	153,6	206
37681363	1 x 25,00	0,21	4 (798/32)	11,1	240,0	296
37681364	1 x 35,00	0,21	2 (1083/32)	12,6	336,0	390
37681365	1 x 50,00	0,31	1 (703/28)	14,7	480,0	554
37681366	1 x 70,00	0,31	2/0 (988/28)	17,0	672,0	771
37681367	1 x 95,00	0,31	3/0 (1340/28)	20,4	912,0	1024
37681368	1 x 120,00	0,31	4/0 (1680/28)	23,0	1152,0	1318
37681369	1 x 150,00	0,31	250 MCM (2122/28)	25,7	1440,0	1649
37681370	1 x 185,00	0,41	350 MCM (1472/26)	27,6	1776,0	2020

Other dimensions and colours are possible on request.

S 910 CP

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	AWG/ MCM	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
37692340	1 x 4,00	0,16	12 (224/34)	7,1	54,5	83
37692360	1 x 6,00	0,21	10 (186/32)	8,0	77,3	112
37692361	1 x 10,00	0,21	8 (320/32)	8,9	119,7	157
37692362	1 x 16,00	0,21	6 (512/32)	10,3	182,6	227
37692363	1 x 25,00	0,21	4 (798/32)	11,7	293,9	335
37692364	1 x 35,00	0,21	2 (1083/32)	13,3	395,7	434
37692365	1 x 50,00	0,31	1 (703/28)	15,8	577,7	631
37692366	1 x 70,00	0,31	2/0 (988/28)	17,9	783,2	840
37692367	1 x 95,00	0,31	3/0 (1340/28)	22,9	1051,4	1193
37692368	1 x 120,00	0,31	4/0 (1680/28)	23,9	1293,3	1421
37692369	1 x 150,00	0,31	250 MCM (2122/28)	26,6	1611,3	1773

Other dimensions and colours are possible on request.

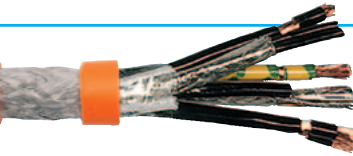
Servo Motor Cables

SL 841 C

combined TPE/PUR motor connection cable with overall copper screen 0.6/1 kV



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



Marking for SL 841 C 08410407:

SAB BRÖCKSKES · D-VIERSEN · 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, VDE 0295, class 6 < 0,50 mm ² with reference to VDE 0812
Insulation:	TPE
Colour code:	black cores with consecutive numbers acc. to EN 50334 + VDE 0293-334 and a green-yellow earth wire
from item no. 08411415:	supply cores: * U1, V2, W3 and a green-yellow earth wire control cores: ** BR1 and BR2
Stranding:	control cores 0,34 mm ² - 2,5 mm ² twisted to pairs
Screen:	pairs wrapped with alu foil, tinned copper braiding
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:	PUR, TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 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. 350 V
Voltage UL/CSA:	supply cores 1000 V control cores 300 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	5 x d fixed laying: flexible application: continuously flexible: 10 x d 12 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range	DIN VDE UL/CSA: up to +80 °C fixed laying: -50/+90 °C flexible application: -40/+90 °C
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL FT1, CSA FT1, FT2
Oil resistance:	very good - TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
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

Outstanding features:



- UL recognized, CSA approval
- very good EMC characteristics
- long service life
- adhesion-free installation
- high flexibility
- suitable for cable tracks
- halogen-free
- PWIS uncritical
(PWIS = paint-wetting impairment substances)
- flexible at low temperatures
- DESINA® colours



Also available
as low capacity
motor connection cable!

item no.	dimension	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.

Note: SIEMENS® is a registered trademark. It is only used for comparative purposes.
BOSCH REXROTH® is a registered trademark. It is only used for comparative purposes.
DESINA® is a registered trademark of the German Machine Tool Builders' Association.



Profibus-DP Cables Industrial Ethernet Cables Profinet

S PB 640 UL

highly flexible PUR Profibus-DP cable
with UL recognition, CSA approval

S PN 667

Profinet type C, continuously flexible
with UL recognition, CSA approval



Marking for S PB 640 UL 06402611:

SAB BRÜCKSKES · D-VIERSEN · S PB 640 UL 24 AWG/2c 06402611 AWM Style 21198 80°C 300V CSA AWM I/II A/B 80°C 300V FT2



Marking for S PN 667 06672202:

SAB BRÜCKSKES · D-VIERSEN · S PN 667 Industrial Ethernet FC Cat 5 Typ C 2x2x22AWG AWM Style 21198 80°C 300V CSA AWM I/II A/B 80°C 300V FT2

Construction:	S PB 640 UL <i>highly flexible</i>	S PN 667 <i>continuously flexible</i>
Dimension:	2 x 24 AWG	2 x 2 x 22 AWG
Conductor:	bare copper strands AWG 24	tinned copper strands, 7 wires
Insulation:	acc. to EN 50290-2-23 + VDE 0819-103 (02Y11)	special polymer
Colour code:	red, green	blue, yellow, white, orange
Stranding:	in layers	
Wrapping:	---	PETP foil
Inner sheath:	SABIX®	thermoplastic material
Wrapping:	alu foil und tinned copper braiding	
Wrapping:	---	non-woven tape
Sheath material:	PUR, TPU acc. to EN 50363-10-2 with matt surface	PUR
Sheath colour:	redlilac (RAL 4001)	green (similar RAL 6018)

Technical data:	S PB 640 UL <i>highly flexible</i>	S PN 667 <i>continuously flexible</i>
Item number:	0640-2611	0667-2202, 0667-9001
Peak operating voltage:	max. 350 V	
Voltage UL/CSA:	300 V	
Testing voltage core/core: core/screen:	2000 V 2000 V	
Min. bending radius fixed laying: flexible application: continuously flexible:	5 x d 10 x d 15 x d	
Temperaturbereich VDE nicht bewegt: bewegt:	UL/CSA: up to +80 °C -40/+80 °C -30/+80 °C	UL/CSA: up to +80 °C -40/+70 °C -40/+70 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1	
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332 + VDE 0482-332-1-2	---
Oil resistance:	very good EN 50363-10-2 + VDE 0207-363-10-2	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
Characteristic impedance:	3 - 20 MHz: 150 Ω ± 10%	100 Ω ± 5Ω, fulfils the electrical and transmission requirements with high frequency acc. to EN 50288-2-2 + VDE 0819-2-2 (CAT 5 acc. to EN 50173)
UL Style:	21198	
Application:	---	suitable for EtherCAT and EtherNET/IP applications
Absence of harmful substances:	acc. to RoHS directive of the European Union	

item no.	type	dimension	max. core-ø mm	outer-ø mm	copper figure kg/km	cable weight ≈kg/km	ohmic resistance at 20°C acc. to VDE 0812 max. Ω/km
06402611	S PB 640 UL	2 x 24 AWG		8,0 ± 0,4	31,2	62	
06672202	S PN 667	2 x 2 x 22 AWG	1,55	6,5 ± 0,2	33,8	60	58,8

For extreme bending stress - conductor construction 19 wires:

06679001	S PN 667	2 x 2 x 22 AWG	1,55	6,5 ± 0,2	33,8	58	58,8
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Other dimensions and colours are possible on request.

Industrial Ethernet Cables Profinet



PN 662 AIR

Industrial Ethernet Cable CAT 5 - Profinet type B, for flexible applications



Marking for PN 662 AIR 06629015:

SAB BRÜCKSKES · D-VIERSEN · ETHERNETLEITUNG 2x2x28AWG 06629015 CE

Application: Suitable for the use as Ethernet cable referring to EN 50288-2-2 (Cat. 5 acc. EN 50173): characteristic impedance of matching cores white/blue and yellow/orange $100 \pm 10 \Omega$.

Construction:

Conductor:	silver coated copper strands
Insulation:	FEP
Colour code:	white, yellow, blue, orange
Stranding:	twisted as quad
Wrapping:	non-woven tape
Wrapping:	metal coated tape
Screen:	silver coated copper wrapping
Sheath material:	FEP
Sheath colour:	orange (RAL 2003)

Technical data:

Operating voltage:	max. 150 V
Testing voltage:	core/core 1500 V core/screen 1200 V
Min. bending radius	
<i>fixed laying:</i>	5 x d
<i>flexible:</i>	10 x d
Temperature range	
<i>fixed laying:</i>	-90/+180 °C
<i>flexible application:</i>	-40/+180 °C
Hydraulic fluids resistance:	very good
Application:	suitable for EtherCAT and EtherNET/IP applications
Absence of harmful substances:	acc. to RoHS directive of the European Union

item no.	type	cross section	outer-ø approx.	copper figure	cable weight	ohmic resistance at 20°C acc. to VDE 0812 max.Ω/km
			mm	kg/km	≈kg/km	

06629015	PN 662 AIR	2 x 2 x AWG 28	2,6	9,8	15	222,2
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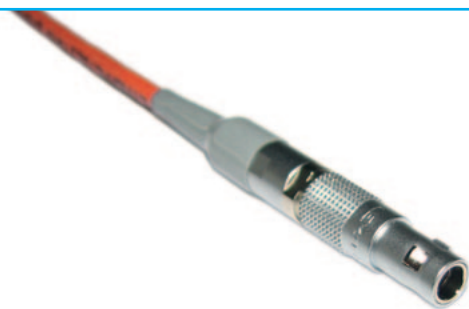
Other dimensions and colours are possible on request.

Also possible as harnessed cable with M12 or RJ 45 plug!

CABLE ASSEMBLY POSSIBLE

Cable harnessing

Ethernet cable on both side 4-pole Lemo male connector



Cable:

Ethernet cable:	2 x 2 x 28 AWG (L 0662-9015)
Cable length:	2,50 m (S 0662-4001) 5,00 m (S 0662-4002) 12,00 m (S 0662-4003) 25,00 m (S 0662-4004) 50,00 m (S 0662-4005) 100,00 m (S 0662-4006)

Harnessing:

Side 1	
Lemo connector:	FGG.00.304.CYCD27Z 4-pole with bend relief grey
Pin configuration:	pin 1 = white pin 2 = blue pin 3 = yellow pin 4 = orange
Shield:	connected on housing
Connector:	Lemo Type FGG.00.304.CYCD27Z 4-pole
Side 2	
Lemo connector:	FGG.00.304.CYCD27Z 4-pole with bend relief grey
Pin configuration:	pin 1 = yellow pin 2 = orange pin 3 = white pin 4 = blue
Shield:	connected on housing
Connector:	Lemo Type FGG.00.304.CYCD27Z 4-pole

Industrial Ethernet Cables



CATLine CAT 6 S Gigabit Ethernet cable, suitable for cable tracks with UL recognition, CSA approval
CATLine CAT 6A S Gigabit Ethernet cable, suitable for cable tracks with UL recognition, CSA approval
CATLine CAT 7A S Gigabit Ethernet cable, suitable for cable tracks with UL recognition, CSA approval

20549 80°C 300V CSA AWM I/II A/B 80°C 300V FT2 CE



Marking for CATLine CAT 7A S 17774631:

SAB BRÖCKSKES · D-VIERSEN · **CATLine** Cat. 7A S 4x2x26AWG 1777-4631 AWM Style 20549 80°C 300V CSA AWM I/II A/B 80°C 300V FT2 CE

Construction:	CATLine CAT 6 S <i>suitable for cable tracks</i>	CATLine CAT 6A S <i>suitable for cable tracks</i>	CATLine CAT 7A S <i>suitable for cable tracks</i>
Dimension:	4 x 2 x 26 AWG		4 x 2 x 26 AWG, 4 x 2 x 24 AWG
Conductor:	bare copper strands, fine wires		
Insulation:	special polymer		
Colour code:	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown		
Stranding:	cores twisted to pairs, pairs together		cores twisted to pairs, pairs screened with foil, pairs together
Wrapping:	non-woven tape		---
Screen:	alu foil and tinned copper braiding		aluminized non-woven tape and tinned copper braiding
Wrapping:	non-woven tape		
Sheath material:	PUR		
Sheath colour:	green (similar RAL 6018)		

Technical data:	CATLine CAT 6 S <i>suitable for cable tracks</i>	CATLine CAT 6A S <i>suitable for cable tracks</i>	CATLine CAT 7A S <i>suitable for cable tracks</i>
Item number:	1677-4630	1677-4631	1777-4631, 1777-4431
Peak operating voltage:	max. 90 V		
Voltage UL/CSA:	300 V		
Testing voltage core/core: core/screen:	2000 V 2000 V		
Min. bending radius fixed laying: flexible application: continuously flexible:	5 x d 10 x d 15 x d		
Temperature range VDE fixed laying: flexible application:	UL/CSA: up to +80 °C -40/+70 °C -40/+70 °C		
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1		
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2 UL Horizontal Flame Test FT2		
Oil resistance:	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2		
Characteristic impedance (100 MHz):	100Ω ± 10Ω, fulfils the electrical and transmission requirements with high frequency with reference to EN 50288-5-2 / CAT 6	100Ω ± 10Ω, fulfils the electrical and transmission requirements with high frequency with reference to EN 50288-10-2 / CAT 6A	100Ω ± 10Ω, fulfils the electrical and transmission requirements with high frequency with reference to EN 50288-9-2 / CAT 7A
Flexibility:	very good		
UL Style:	20549		
Application:	suitable for EtherCAT and EtherNET/IP applications		
Absence of harmful substances:	acc. to RoHS directive of the European Union		

item no.	type	dimension	max. core-ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈kg/km
16774630	CATLine CAT 6 S	4 x 2 x 26 AWG	1,05	7,1	32,0	57
16774631	CATLine CAT 6A S	4 x 2 x 26 AWG	1,05	7,1	32,0	57
17774631	CATLine CAT 7A S	4 x 2 x 26 AWG	1,50	8,5	38,5	81
17774431	CATLine CAT 7A S	4 x 2 x 24 AWG	1,60	10,4	46,6	101

Other dimensions and colours are possible on request.

+90°C
on request!



Also possible as harnessed cable with M12 or RJ 45 plug!

CABLE ASSEMBLY POSSIBLE

USB 3.0 cable with moulded connector

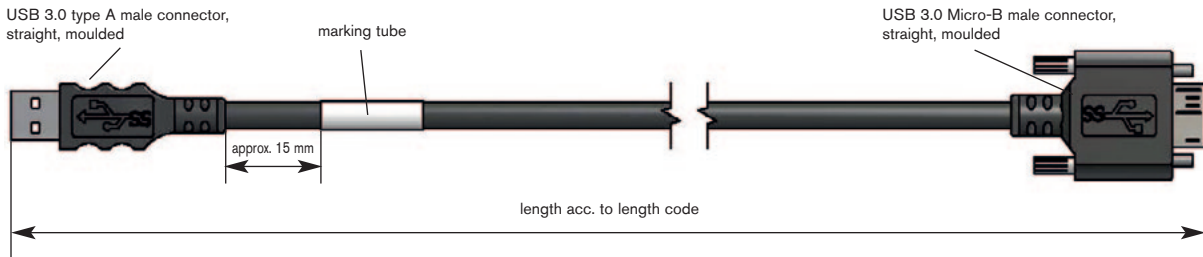
USB 3.0 cable with moulded type A and Micro-B male connector resp.
 USB 3.0 cable with moulded type A male connector and type A female connector

Connector:

side 1:	USB 3.0 type A male connector
side 2:	USB 3.0 type Micro-B male connector

Configuration examples:

item no.	length „L“ in cm
S0604-4004-00100	100
S0604-4004-00200	200
S0604-4004-00300	300
S0604-4004-00500	500

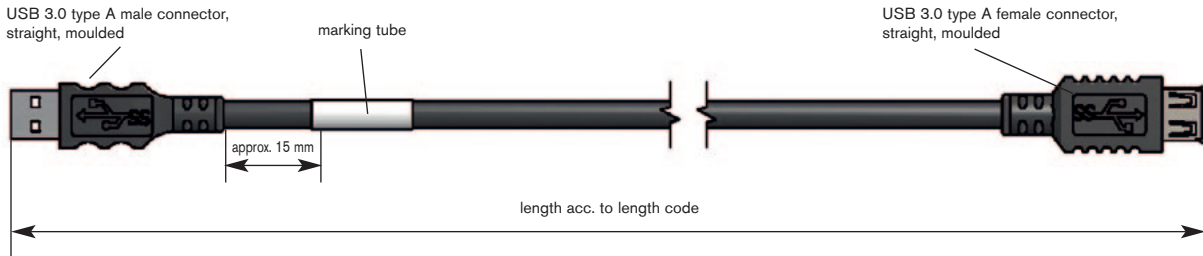


Connector:

side 1:	USB 3.0 type A male connector
side 2:	USB 3.0 type A female connector

Configuration examples:

item no.	length „L“ in cm
S0604-4005-00050	50
S0604-4005-00100	100
S0604-4005-00200	200
S0604-4005-00300	300
S0604-4005-00500	500



Application:

Connection cable PC – 3D camera
 Extension cable

Cable characteristics:



- mechanically very rugged
- PUR cable suitable for cable tracks

Cable data:

Construction:	3x(2x30AWG)ST+2x24AWG
Insulation:	SABIX®
Outer sheath:	PUR
Outer diameter:	approx. 6,1 mm
Min. bending radius:	10 x d
Peak operating voltage:	max. 350 V

SAB marking:

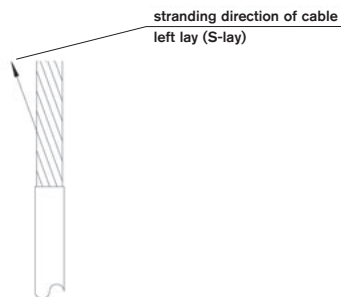
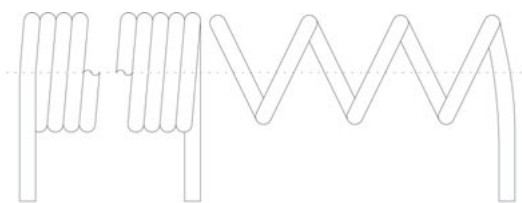
item number, order number, length

SAB helix cables

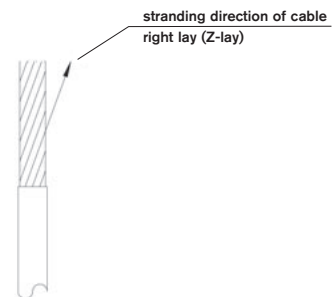
SAB helix cables

- By a special method cables can be transferred from their straight form to a curling form. According to the application the cable can be adjusted to your demands and specifications.
- It is possible to make helix cables of both, PVC as well as PUR sheathed cables. You can also buy screened helix cables from us.
- PVC helix cables can be used as extension or connection cables. These cost saving cables are used if there is no continuous restoring force demanded, e.g. for lamps or electrical appliances ...
- PUR helix cables are used for very high requests on the quality of the cable. The pull-off length of these cables is approximately 4:1 and they have a good restoring force as well. For this reason these cables are used e.g. material handling appliances, in machines, on gates ...
- The helical direction is dependent on the stranding direction of a cable.

Helical direction ⇨ left (counter-clockwise)



Helical direction ⇨ right (clockwise)



- You can send us an inquiry for helix cables using the form shown on the next page.



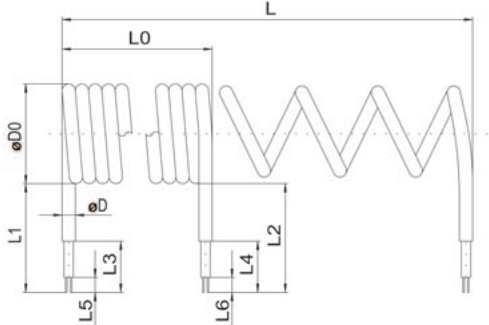
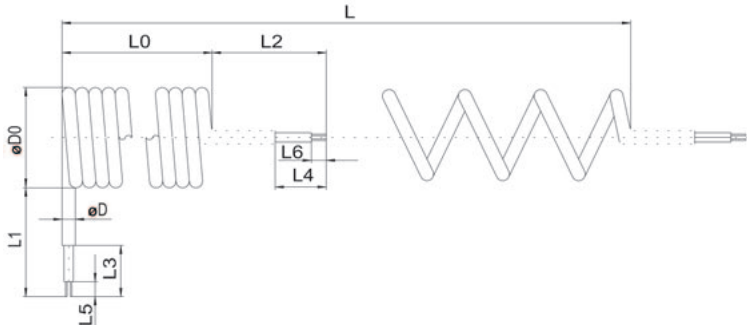
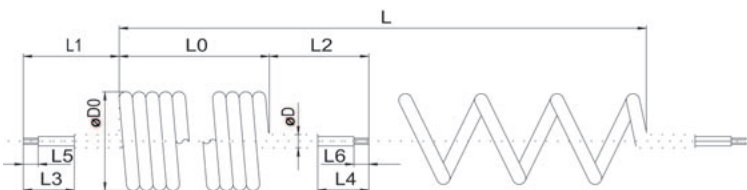
SAB helix cables

Construction details for helix cables

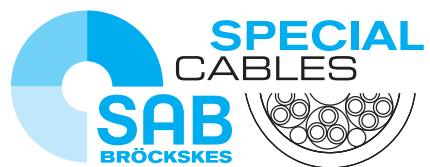
to **SAB Bröckskes GmbH & Co. KG**
 Fax: +49 / 21 62 / 898 -101 · Phone: +49 / 21 62 / 898-0

Company/Name: _____

Please calculate a non-binding offer based on the following data:

 <p>■ Cable ends: radial</p>	<p>L = _____ mm L0 = _____ mm øD = _____ mm øD0 = _____ mm L1 = _____ mm L2 = _____ mm L3 = _____ mm L4 = _____ mm L5 = _____ mm L6 = _____ mm</p>
 <p>■ Cable ends: radial and axial</p>	<p>Quantity: _____ Application (type of installation): _____ _____ Helical direction: _____ Standard cable (item no.): _____</p>
 <p>■ Cable ends: axial</p>	<p>Insulation material (core): _____ Screening: <input type="radio"/> yes <input type="radio"/> no Insulation material (sheath): _____ No. of cores: _____ Cross section: _____</p>
<p>Notes: _____ _____ _____ _____</p>	





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