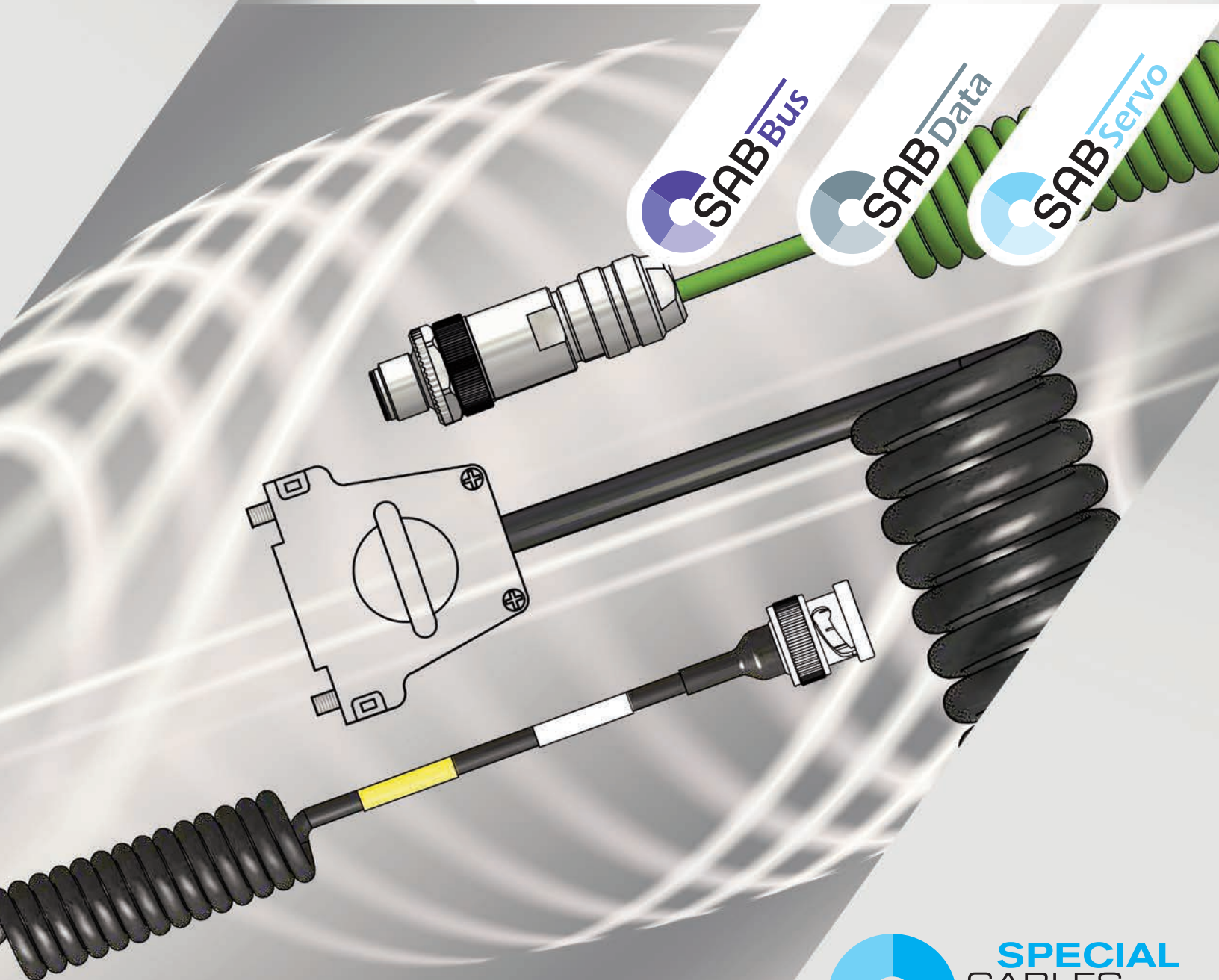
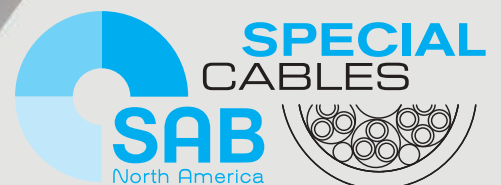


ASSEMBLIES

HELIX/SPIRAL CABLES



www.sabcable.com
866-722-2974 ■ info@sabcable.com





SAB North America is a focused supplier for the automation, aerospace, medical, high temperature, and robotics industries, providing cable and thermocouple solutions that meet, exceed, and set new standards in the flexible cable market. In addition to flexible cable products, we offer an extensive inventory of high-quality cable accessories, including cord grips, grounding glands and other accessories that complement our flexible control and automation cables.

Whatever the need may be, look to SAB North America for Special Cables that can, for example, help minimize maintenance costs and increase productivity, reduce downtime, and solve specific problems. Here is a small sample of some of the challenges that Special Cables from SAB North America can help address:

- Hybrid designs for multiple functions
- Harsh environments
- Difficult applications
- Industry-specific requirements



SAB assembles our cables and wires directly to your individual requirements and specifications. We offer a variety of combination possibilities which include different connector types (Harting, Lemo, Sub-D, M12, and RJ45 connectors) and terminals. The cable jacket material is selected based on your application. We offer solutions for different applications including: connectorized solutions, cables with stripped outer jacket and wire insulation, and cables with wire end ferrules. SAB can helix/spiral your cable for use in connecting mobile operating units and mobile machine parts.

Whether you're a valued distribution partner, a manufacturer, an automation house, an integrator, or a contractor, rest assured that our cables are reliable to maximize production efficiencies. SAB brings world class performance & 75 years of ingenuity to the table.

SAB's level of speed and service as a supplier is unmatched. SAB lives up to its name in not only flexible cable but also flexible manufacturing.



SAB Advantage...We make it Easy

- Engineering & technical assistance
- Cut to length with no cut charges
- Prepaid freight within US for orders over \$2,500
- Specialty cable designs (1500 ft minimum)
- No minimum on orders from stock
- Free drop shipments (no surcharges)
- 24-hour shipments from stock
- Cord Grips for securing and grounding cables

Helix/Spiral Cables



UL certified cable harness

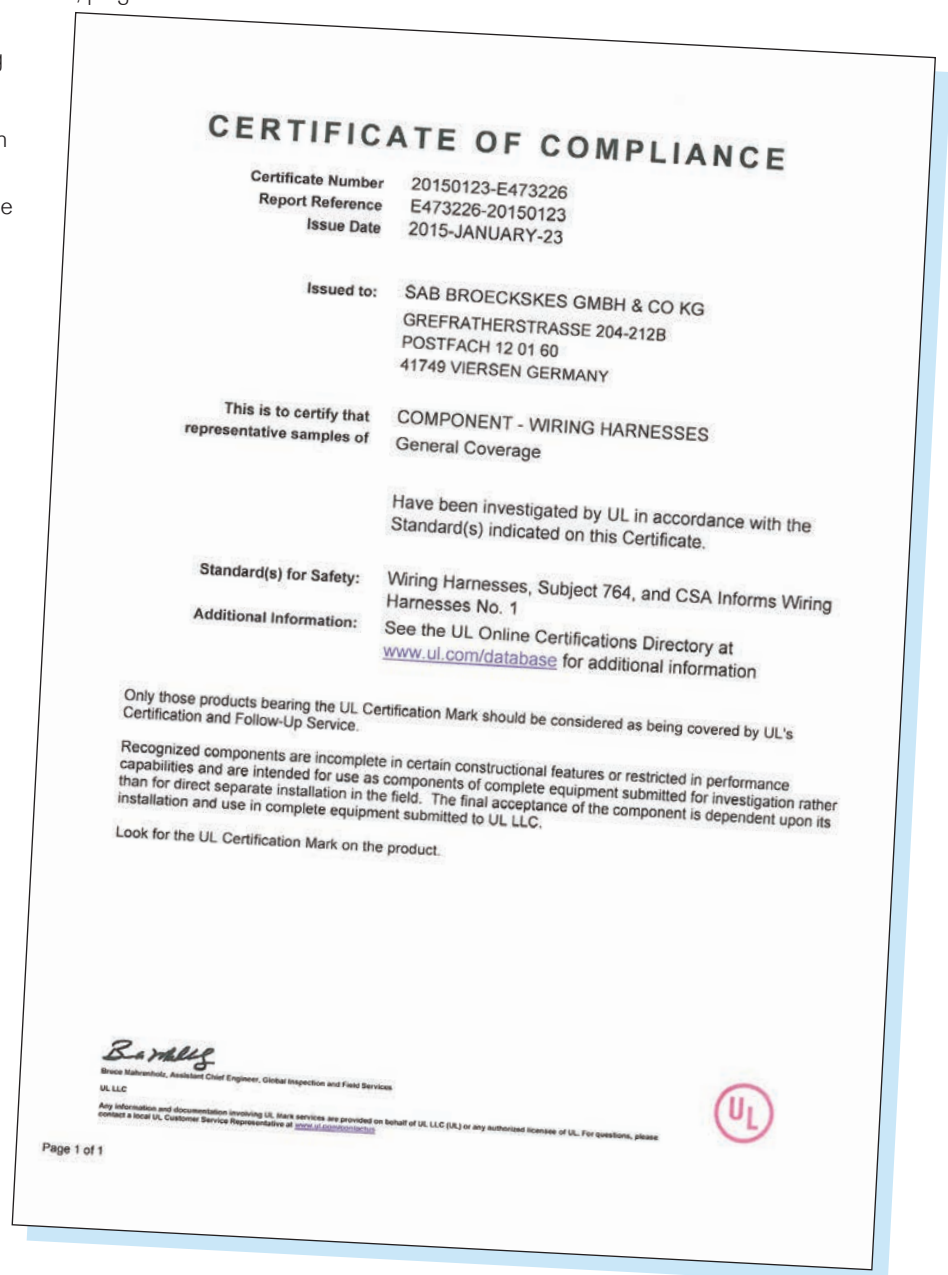
SAB Bröckskes has completed its range of harnessed cables with the certification acc. to UL Standard Wiring Harness "category ZPFW2 (UL)" and "ZPFW8 (Canada)" and herewith strengthens its position as cable specialist for cable harness acc. to customer's specification.

Whenever harnessed cables are produced as component part of a final product for the North American and Canadian market, an UL certified cable harness is necessary. With the UL certification, **SAB** ensures the detailed traceability of individual components as for example cables, plugs or sleeves and offers highest planning reliability also with special harnessing products.

Underwriter Laboratories Inc. (UL), an independent American test and certification authority confirms the use of the materials and documents required by the final customer according to the UL certification for "Wiring Harness" acc. to ZPFW2 and ZPFW8. In the manufacturer's data base (www.ul.com) **SAB** is listed under file no. E473226 as a qualified and reliable manufacturer.

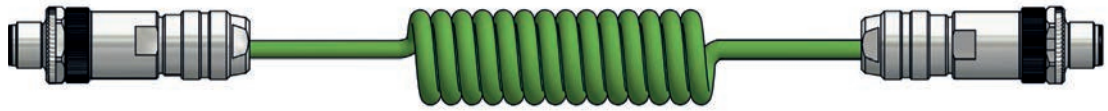
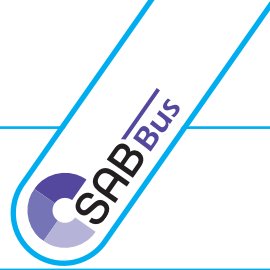
The requirements for UL certified cable harness are controlled by external audits every three months in order to guarantee the high requirements of the UL standards. Besides our cables, also harnessed versions, are tested in our own laboratory with regard to safety and reliability and are marked with the "Wiring Harness Label".

On request **SAB** is able to manufacture cable harnessing products acc. to customer's specification acc. to UL Wiring Harnesses ZPFW2 and ZPFW8 from the cable to the harness and offers broad advice.



Ethernet Cable

Helix cable with axial outlets and M12 D-coded male connectors



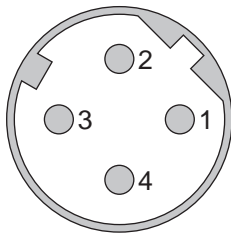
Application: CAT 5 Profinet cable spiral cable for mobile use on machines and systems.

Technical Data:

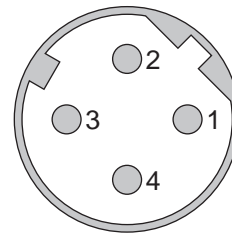
Temperature range:	-30°C to +80°C
Voltage:	max. 113 V
Connection side 1:	M12 D-coded
Connection side 2:	M12 D-coded
Marking:	yellow marking tube with marking: item number - order number - length - certification mark, with customer identification on request!

Cable characteristics:

SAB item no.:	L0616-9066
Dimension:	2 x 2 x 26 AWG
Conductor:	bare copper strands, fine wires
Insulation:	SABIX®
Shielding:	tinned copper braiding
Outer jacket:	PUR, green (similar RAL 6018)
Outer diameter:	approx. 6.1 mm



connection diagram/pin assignment					
side 1	1:1				side 2
M12 connector	conductor				M12 connector
pin 1		yellow			pin 1
pin 2		white			pin 2
pin 3		orange			pin 3
pin 4		blue			pin 4
housing	shield				housing



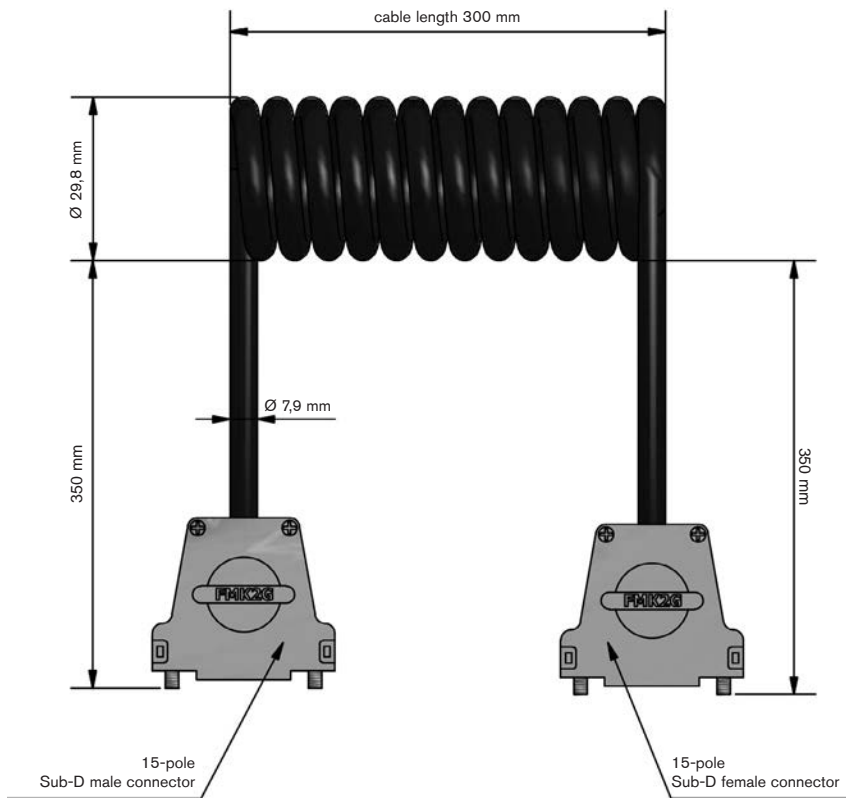
Individual lengths and further plug combinations on request!



Helix/Spiral Cables

Helix Cable

with radial outlets and 15-pole Sub-D male connector and female connector



Technical Data:

Temperature range:	-35°C to +85°C
Voltage range:	0 - 24 V
Connection side 1:	Sub-D connector
Connection side 2:	Sub-D connector

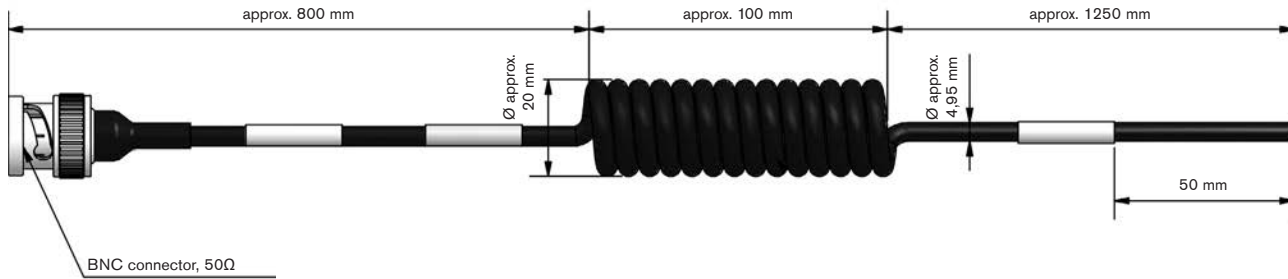
Cable characteristics:

SAB item no.:	L0803-9209
Dimension:	(5x0.14 mm ² +2x0.14mm ² +4x(2x0.14mm ²)D)D
Conductor:	bare copper strands, fine wires
Insulation:	TPE
Shielding:	wrapped with tinned copper braiding
Outer jacket:	PUR, black (similar RAL 9005)
Outer diameter:	approx. 7.9 mm

item no. with length code	
length	item no.:
0.3 m	S0803-4123-00030
0.5 m	S0803-4123-00050
1.0 m	S0803-4123-00100
2.0 m	S0803-4123-00200
3.0 m	S0803-4123-00300
5.0 m	S0803-4123-00500
7.5 m	S0803-4123-00750
10.0 m	S0803-4123-01000
15.0 m	S0803-4123-01500
20.0 m	S0803-4123-02000
25.0 m	S0803-4123-02500

Helix Cable

with axial outlets, BNC connector and smoothly cut end



Technical Data:

Temperature range:	-40°C to +90°C (cable)
Voltage range:	max. 500 V (cable)
Connection side 1:	HF plug connector
Connection side 2:	cut smoothly

Cable characteristics:

SAB item no.:	L3600-9064 / KOAX 50 Ω
Dimension:	AWG 22/19
Conductor:	bare copper strands, fine wires
Insulation:	SABIX®
Shielding:	wrapped with tinned copper braiding
Outer jacket:	PUR, black (similar RAL 9005)
Outer diameter:	approx. 5.0 mm

item no. with length code	
length	item no.:
0.5 m	S3600-4103-00050
1.0 m	S3600-4103-00100
2.0 m	S3600-4103-00200
3.0 m	S3600-4103-00300
5.0 m	S3600-4103-00500
7.5 m	S3600-4103-00750
10.0 m	S3600-4103-01000
15.0 m	S3600-4103-01500
20.0 m	S3600-4103-02000
25.0 m	S3600-4103-02500

Among others the following cable types belong to our delivery program:

- ✓ low-noise cable
- ✓ RG 316
- ✓ RG 58
- ✓ RG 179
- ✓ coax cables with 50 Ω or 75 Ω
- ✓ cables with heat resistant, flexible outer jacket up to +150°C

Please choose from the following plug connectors:

- UHF plug connector
- mini UHF plug connector
- MMCX plug connector
- SMB plug connector
- ...

Helix/Spiral Cables

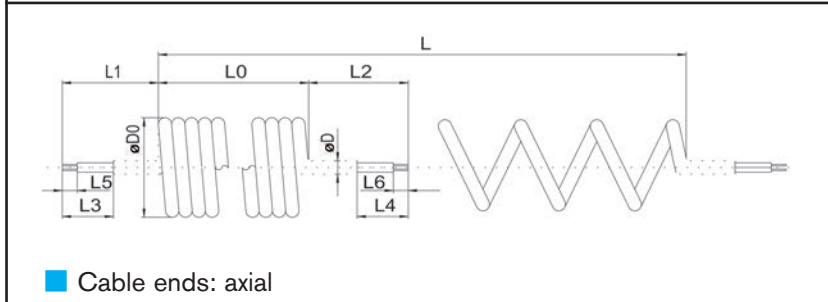
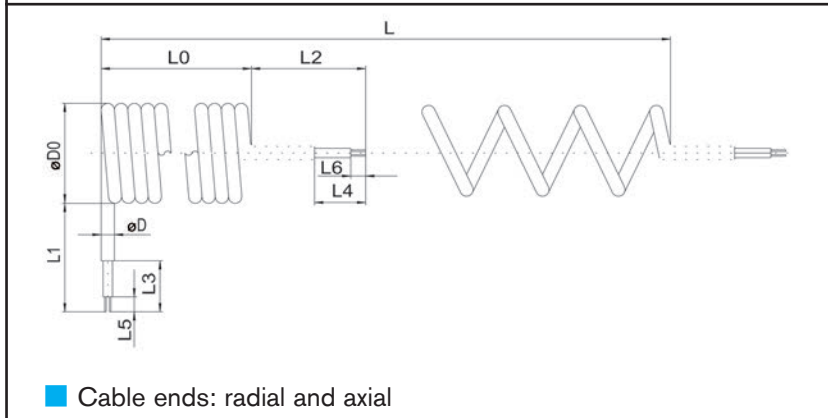
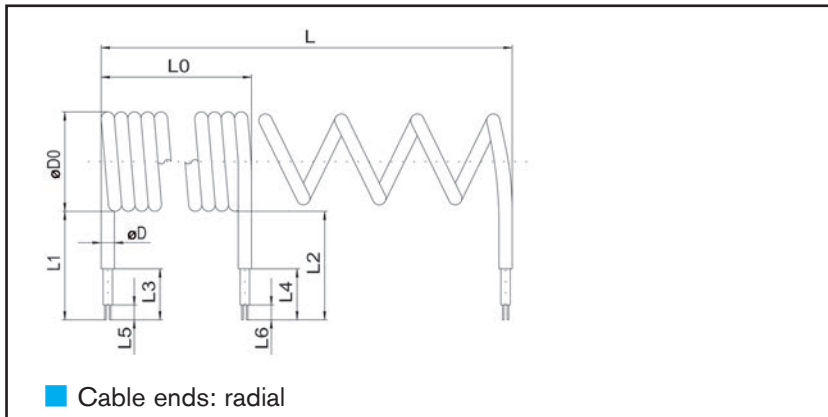
Construction details for helix cables

to **SAB North America**

Fax: 973-276-1515 ▪ Toll Free: 1-866-722-2974 ▪ Phone: 973-276-0500

Company/Name: _____

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



L = _____ mm
 L0 = _____ mm
 øD = _____ mm
 øD0 = _____ mm
 L1 = _____ mm
 L2 = _____ mm
 L3 = _____ mm
 L4 = _____ mm
 L5 = _____ mm
 L6 = _____ mm

Quantity: _____

Application
 (type of installation): _____

Helical direction: _____

Standard cable
 (item no.): _____

Insulation material
 (conductor): _____

Shielding: yes no

Insulation material
 (jacket): _____

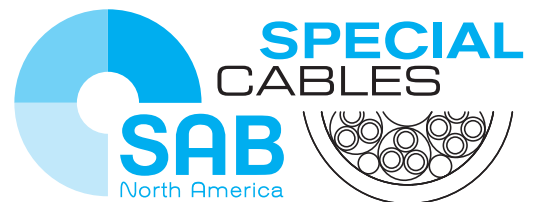
No. of cores: _____

Cross section: _____

Notes: _____



August 2024



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