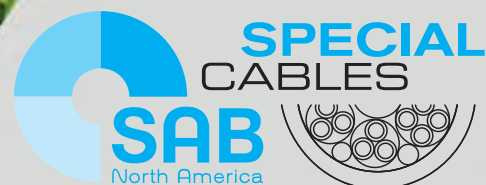


# CABLE & ACCESSORIES FOR AGRICULTURAL APPLICATIONS



[www.sabcable.com](http://www.sabcable.com)  
866-722-2974 ■ [info@sabcable.com](mailto:info@sabcable.com)





# SAB North America

## About Us

SAB North America is a focused supplier for the automation, aerospace, food and beverage, 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:

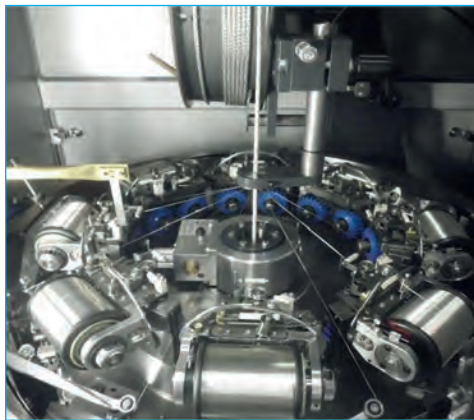
- Hybrid designs for multiple functions
- Harsh environments
- Difficult applications
- Industry-specific requirements



SAB North America provides a variation of cables, cord grips and vent accessories that are ideal for greenhouses. All our cables resist humidity, are very flexible and have excellent chemical resistance. SAB cables will perform in most applications within the greenhouse; tray rated cables for lighting and other functions, VFD for HVAC, continuous flex & flexible cable for automated watering, harvesting, sorting and packaging equipment, Ethernet for process control and servo for precise positioning to name a few. Our cord grips will create a tight seal with the cable protecting the connections inside control cabinets (IP 68). SAB also supplies vent glands and plugs to maintain equal pressure inside control cabinets to prevent condensation.

Whether you're a valued distribution partner, 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 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



# Cables & Accessories for Agricultural Applications

When selecting wire and cable for your indoor growing application, be sure to keep the following factors in mind:

<b>Flexibility:</b>	Cable runs typically have complex configurations since equipment and cable trays must be positioned to avoid blocking sunlight.
<b>Chemical resistance:</b>	Whether for plant growth or pest mitigation, greenhouses are teeming with agricultural chemicals and pesticides.
<b>Moisture/humidity/corrosion resistance:</b>	Humid conditions in greenhouses can lead to condensation forming on equipment or dripping from the ceiling. Puddles can also add to the humidity inside a greenhouse.
<b>UV resistance:</b>	Abundant sunlight can cause cable jacketing to degrade.
<b>Temperature:</b>	Elevated temperatures are common in greenhouses.
<b>Certifications and approvals:</b>	Make sure your wire and cable satisfies industry and local standards.



**FILLING & SEEDING LINE**



**WATER TANKS**



**ROBOTIC FARMING**



**LIGHTING**



**SPRAYING EQUIPMENT**



**CLIMATE CONTROL**



# Cables & Accessories for Agricultural Applications





# Cables & Accessories for Agricultural Applications

## SAB – your cable specialist for agricultural vehicles

Demands for reliable communication interfaces and bus systems to control machinery and appliances in agricultural equipment is extremely high. Agricultural equipment and their systems are exposed to environmental conditions like weather, pollution, ammonia, chemicals, and microbes which require robust cabling and communication systems for reliable operations. At SAB, we offer reliable ISOBUS cables and systems in accordance with ISO 11783-2. In addition, SAB also designs and specifies custom cable solutions for our customers including prototypes and small production quantities from 100 m.



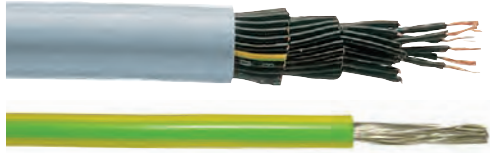
Our products are used in the following fields of agriculture and forestry:

- Precision agriculture
- Crop protection technology
- Forage harvesting technology
- Tillage
- Tractors
- Combine harvesters
- Forage harvesters
- Telescopic handler
- Front loader
- Skidder
- Harvester
- Forwarder
- and many more

Please contact us at  
[info@sabcable.com](mailto:info@sabcable.com)



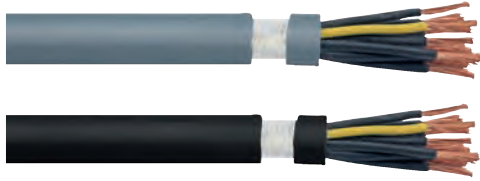
# Cables & Accessories for Agricultural Applications



## Flexible Control Cables

Flexible & oil resistant cables for use in greenhouses, electrical equipment, production lines, and processing machinery.

- CC 600 & CC 600 CY (UR/CSA/CE) - Flexible, Unshielded & Braid Shielded, Oil Resistant 600V, 90°C PVC
- CC 600 P & CC 600 CP (UR/CSA/CE) - Flexible, Unshielded & Braid Shielded, Notch Resistant, PUR
- Harmonized Hook-up wire- European standardized hook-up wire, 300/500 Volt and 450/750 Volt



## Continuous Flex Cables

Continuous flex cables for a variety of applications from heavy-duty power & control to sensitive data communications. Designed & tested for X-Y flexing and alternate bending. Life cycle testing available up to 20 million cycles.

- S 960 & S 960 CY (UR/CSA/CE) - Unshielded & Braid Shielded, Oil Resistant PVC
- S 200 & S 200 C (CE) - Unshielded & Braid Shielded Cable, Extreme Temperatures, and Tight Bending Radius, TPE/PUR
- S 980 P & S 980 CP (UR/CSA/CE) - Unshielded & Braid Shielded, Oil Resistant, PUR
- S 900 & S 900 P (UR/CSA/CE) - Single Conductor, Tight Bend Radius for Confined Areas, PVC & PUR



## Torsion Cables

Flexible robotic cables designed for twisting applications used on robotic arms and other applications requiring rotary motion.

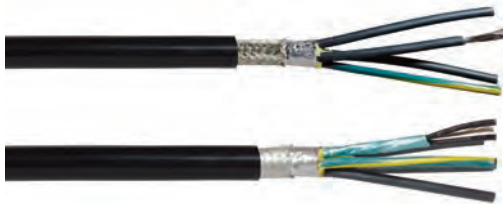
- RT 123 (UR/CSA/CE) - Torsional and Continuous Flex Cable for  $\pm 450^\circ$  / 1/2 m, Available Shielded and Unshielded, TPE/PUR



## Tray Cables

Flexible tray cables for easier installation saving on labor costs. Oil & humidity resistant for longer life.

- TR 600 S & TR 600 S CY (UL TC-ER/CSA-TC/CE) - UV & Oil Resistant Flexible Cable, Shielded & Unshielded
- TR 600 HD & TR 600 AUTO HD - Tray Series for Hazardous Classified Locations. Available with Red, Blue or Black Numbered Conductors, Shielded & Unshielded



## VFD Cables

VFD cables for connection of VFD drives and motors. Various designs to fit your specific need all UL TC-ER and 1000V.

- VFD XLPE TR (UL TC-ER-JP, WTTC/cUL/CSA/CE) - 4c Power with Overall Shield
- VFD Combo XLPE (UL TC-ER-JP, WTTC/cUL/CSA/CE) - 4c Power Plus Shielded Pair for Brake or Sensor
- VFD XLPE TR Lean (UL TC-ER-JP, WTTC/cUL/CSA/CE) - 4c Power with Overall Shield with reduced diameter
- VFD Symmetrical XLPE TR (UL TC-ER, WTTC/CSA/CE) - Ranging from 14 AWG to 500 KCMIL



## Servo Motor Cables

Industrial grade cables for servo motor connections for power, power with signal pairs, and for encoder/resolver.

- SL 860 C & SL 863 C (UR/CE) - Braid Shielded Servo Motor Cables for Stationary Applications, 1000V, PVC
- SL 834 C (UR/CSA/CE) - Braid Shielded Servo Motor Cable for Continuous Flex, 1000V, PUR
- SL 841 C (UL/CSA/CE) - Braid Shielded Composite Servo Motor Cable with Pairs for Continuous Flex, 1000V, PUR
- SL 839 C & SL 843 C (UL/CE) - Braid Shielded Servo Motor Cables for Resolver/Encoder, PUR



# Cables & Accessories for Agricultural Applications



## Industrial Ethernet Cables

Category cables (CAT 5/Profinet, CAT 5e, CAT 6 & 6A, CAT 7A) for a multitude of applications: static, flexible, continuous flex, torsion, and reeling.

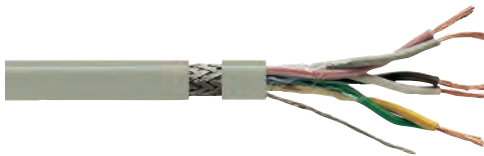
- Profinet/CAT5 Cables for Type A, B, & C Applications Plus Torsion and Reeling
- CAT 5e with PLTC and Rail for Flexible Applications (CE)
- CATLine 6 & 6A Cables for Continuous Flex, Torsion, Reeling, Rail & High Temp.
- CATLine 7A Cables for Continuous Flex, Torsion, Reeling, and Rail Applications
- CATLine SPE (Single-Pair-Ethernet Cable) Suitable for Cable Tracks, Robots, & High Temperature



## Bus Cables

Flexible Bus Cables designed for industrial applications requiring data, sensor and power communications. Halogen-free versions available.

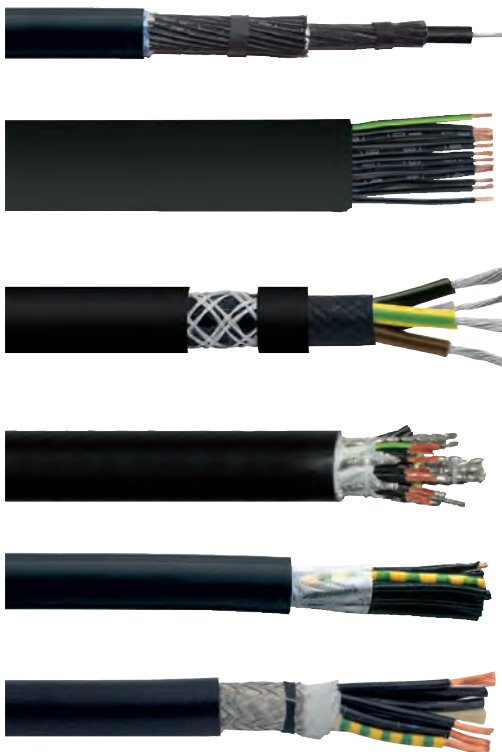
- DeviceNet™ Cables for Flexible, Continuous Flex, and Torsion Applications
- Profibus Cables for Flexible, Continuous Flex, Torsion, and Outdoor Applications.
- CANBUS Cables for Flexible and Continuous Flex Applications
- USB 2.0 Cables for Flexible, Continuous Flex, and Torsion Applications.
- USB 3.0 Cables for Flexible, Continuous Flex, and Torsion Applications.



## Data & Sensor Cables

General purpose European and North American style data cables.

- DC 105, DC 105 C, & DC 105 TP (UL PLTC/ITC/CMG) - Flexible Multi-Conductor & Paired Cable, Shielded & Unshielded, PVC
- LiYY, LiYCY, & LiYCY TP (CE) - General Purpose, Multi-Conductor and Twisted Pair, Shielded & Unshielded, PVC
- DC 300 DS & DC 300 DS TP - Flexible Multi-Conductor & Paired Cable, Shielded & Unshielded, PVC



## Specialty Cables

Specialty flexible cables built for specific needs and approvals for demanding applications.

### Round & Flat Lift & Festoon Cables

- SABIX® Lift (CE) - Halogen-Free Control Cable with Sisal Center
- SABIX® Lift ST (CE) - Halogen-Free Control Cable with Steel Center
- H05VVH6-F & H07VVH6-F (VDE/HAR/CE) - PVC Flat Cables
- Festoon 715 P (CE) - PUR Cable for Flexible Applications
- Festoon 716 CP (CE) - Shielded PUR Cable for Flexible Applications

### Reeling Cables

- DR 730 P Highflex (UL/CE) - PUR Reeling Cable
- DR 717 P Highflex (CE) - PUR Reeling Cable for Spring Loaded Cable Reels
- DR 718 CP Highflex (CE) - PUR Shielded Reeling Cable for Crane Arms

### Spreader Cables

- DR 724 P Spreader (CE) - PUR Reeling Cable for Spreader Application
- Spreader 722 (CE) - PUR Control Cable for Basket Operation

### Special Cables for High Mechanical Stress

- SAB 755- Exploration (UR/cUR) - Highly flexible PUR control and power supply
- SAB S 745- Exploration (UR/cUR) - Continuous flex oil resistant PUR control
- SL 851 C- Exploration (UR/cUR) - PUR shielded motor connection cable, 0.6/1kV
- SAB S 745- Exploration (UR/cUR) - PUR Control Cable for Basket Operation

# Cables & Accessories for Agricultural Applications

## CORD GRIPS & ACCESSORIES

Secure & Protect Your Cable

### CG 100 POLYAMIDE CORD GRIPS

Dome cap, black or gray available in NPT, PG, or metric thread

Liquid tight seal, fast and easy installation, wide clamping range, multi-purpose applications, easy handling.



### CG 200 POLYAMIDE CORD GRIPS

Flex cap, black or gray available in NPT, PG, or metric thread

Strain relief gland offers maximum protection against conductor fatigue caused by flexing cables



### CG 300 NICKEL PLATED BRASS CORD GRIPS

Available in NPT, PG, or metric thread

Impact resistant, suitable for industrial applications, water tight, corrosion resistant.



### CG 350 STAINLESS STEEL CORD GRIPS

Available in NPT, PG, or metric thread and SS 303 or SS 316

Impact resistant, suitable for industrial applications, water tight, corrosion resistant.



### EMC-2 GROUNDING CORD GRIPS

Nickel plated brass EMC cable gland available in NPT, PG, or metric thread

EMC-2 is a nickel plated brass strain relief with integral grounding springs in the gland.

#### Features:

- One Direction Installation
- Affordable
- Nickel Plated Brass with Tinned Copper Springs



### EMC-4 GROUNDING CORD GRIPS

Nickel plated brass, EMC cable gland, vibration proof, available in NPT, PG, or metric thread

EMC-4 is a nickel plated brass strain relief with integral grounding springs in the gland that will allow the cable to move without damage to the shield.

#### Features:

- Bi-directional Installation
- Great Anti-Vibration Mechanisms
- Nickel Plated Brass with Tinned Copper Springs



## VENTILATION GLANDS & PLUGS

Polyamide, Nickel Plated Brass or Stainless steel cable glands available in metric or PG thread

Vent glands and plugs are used to balance the pressure in an enclosure to protect electronic connections from condensation. They are UL approved and chemical resistant.



## Accessories & Fittings

Enlargers	Reducers	Hole Plugs	Multi-Hole Bushing	Hygienic Cable Glands & Conduit Fittings	Locknuts



# Cables & Accessories for Agricultural Applications

## 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 offer 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:

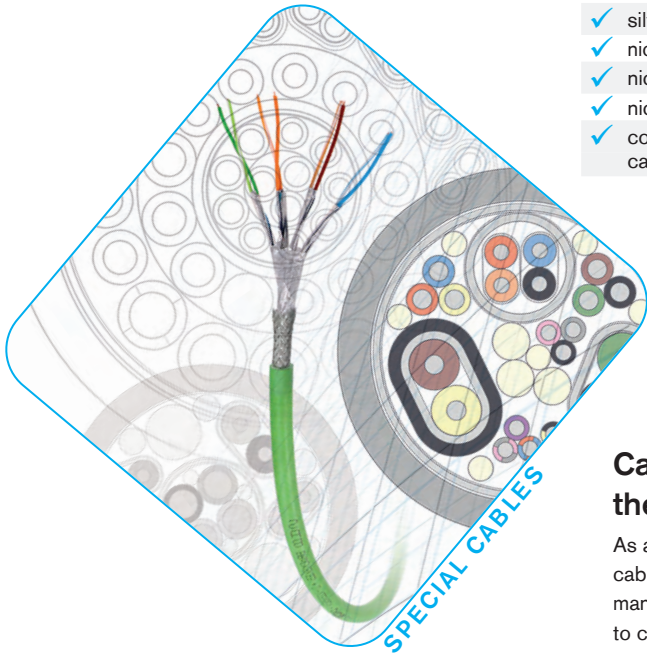
- ✓ PVC
- ✓ Polyethylene
- ✓ Polypropylene
- ✓ Polyurethane
- ✓ TPE
- ✓ SABIX® (zero halogen)
- ✓ Besilen® - Silicone
- ✓ FEP, ETFE, PFA, PTFE
- ✓ PI foil
- ✓ Fiberglass

#### 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
- Fiberglass
- ✓ up to +600°C

#### Conductors:

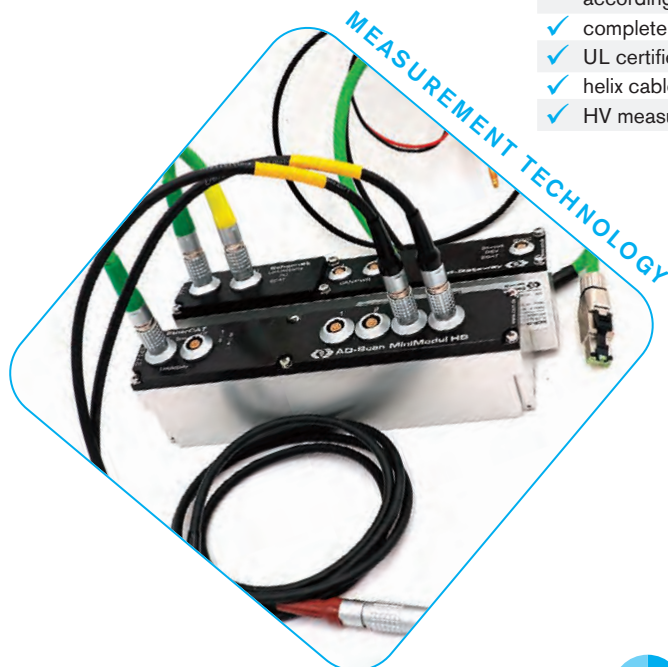
- ✓ cross sections 0.055 - 300 mm<sup>2</sup>
- ✓ unshielded and shielded over 100 conductors



### Cable assemblies directly from the manufacturer SAB:

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

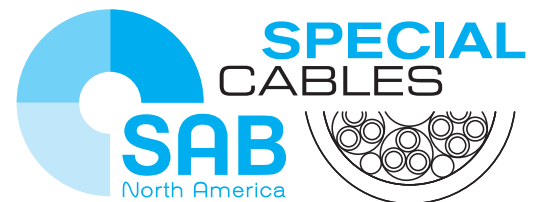
- ✓ cable assemblies according to customer's demands
- ✓ complete cable assemblies
- ✓ UL certified assemblies
- ✓ helix cables
- ✓ HV measuring assemblies



### 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



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