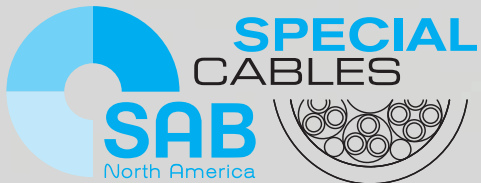


CABLES & ACCESSORIES FOR FOOD & BEVERAGE



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



Cables & Accessories for Food & Beverage

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:

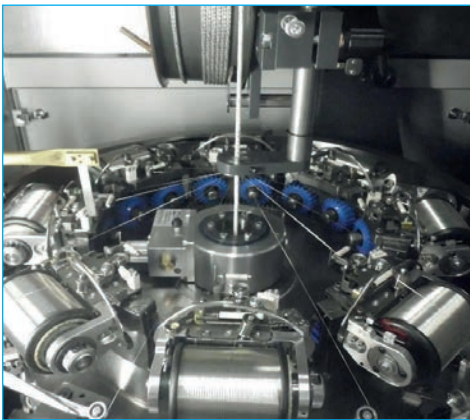
- Hybrid designs for multiple functions
- Harsh environments
- Difficult applications
- Industry-specific requirements



Equipment OEMs must have complete certainty that the cables they choose are suitable for their design. SAB North America provides a wide variety of safe, reliable flexible cables for use in food and beverage equipment and manufacturing. SAB has more than 75 years of experience manufacturing quality, rugged cables for challenging applications so that you can be sure that SAB cable is a safe and reliable addition to your equipment.

Whether you're a valued distribution partner, an automation house, an integrator, or a contractor to the food and beverage industry, 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 Food & Beverage

Overview

SAB North America has served the Food and Beverage Industry for many years by providing a variety of cables, cord grips, and thermocouples, which are ideal for various application requirements. All our cables are very flexible and have excellent chemical, washdown, and temperature resistance. SAB cables have been used extensively in various facilities dedicated to Bottling, Baking, Brewing, Dairy, Meat, Fish and Chicken in all stages of production.

Applications include:

- Food processing and packaging
- Dairy processing
- Meat and fish processing
- Baking & confectionery processing
- Bottling plants
- Packaging machines
- Advanced picking & placing



AUTOMATION



WASHDOWN



FILLING



BAKING



BREWING



PACKAGING

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

Application Requirements	SAB Solution
Precise control over positioning for filling, capping, and labeling	SAB's servo motor cables, used in continuous flex and static applications, come in combinations of power, signal, feedback and control configurations.
Reliable data transmission for processing control and automation	SAB's industrial ethernet cables provide fast, reliable data transmission. Available configurations include CAT 5e, CAT 6, CAT 6A, and CAT 7A cable solutions for flexible, continuous flex, or robotic use. USB 2.0 and 3.0 versions are also available.
Chemical resistance from cleaning agents and detergents	SAB offers cables with a variety of jacket materials to withstand your operating conditions
Moisture, humidity, corrosion resistance from washdown and high-pressure sprays	Our watertight cord grips will create a tight seal with the cable protecting the connections. Available in polyamide, nickel plated brass, and stainless steel.
Operating in extreme temperature ranges including both low and high temperatures	SAB's Besilen® silicone cables are suitable for high ambient temperatures up to +180°C for continuous operation and up to 250°C for short periods. Cold temperature ranges as low as -50°C are also available.
Installation in machinery & tray with tight bends and limited space	SAB cables are manufactured with fine stranding for good flexibility and easier installations. Flexible control and tray cables with reduced diameters allow for use in confined areas and easy routing through overhead trays

Cables & Accessories for Food & Beverage

For all Stages of Food Production
Bottling, Baking, Brewing, Dairy, Meat/Fish/Poultry

Food Preparation:

Cleaning / Spraying ■ Mixing / Stirring ■ Cutting / Chopping ■ Washdown



Food Processing:

**Ovens/Cooking ■ Filling/Capping ■ Cooling ■ Advanced Pick and Place
Packaging / Labeling**



Packaging:

Packaging Master Cartons ■ Palletizing ■ Shrink Wrap



Cables & Accessories for Food & Beverage

FLEXIBLE POWER & CONTROL CABLES

- **Food Prep:** Rated for Wash Down Areas, Cooling Fans, Scales, Ventilation Hoods, Sterilization Equipment
- **Food Processing:** Conveyor Systems, Actuators Arms, Control Panels, and Control Lights
- **Packaging:** Cooling Fans, Canning Equipment, Plastic Injection Molding



Food Preparation
Food Processing
Packaging



Features:

- Flexible for easy installation
- Chemical and wash down resistant
- Shielded versions available
- NFPA 79 compliant
- Abrasion and notch resistant
- Easy to crimp conductors

Suggested Cables:

- CC 600 & CC 600 CY (UR/CSA/CE) - Flexible, Unshielded & Braid Shielded, Oil Resistant PVC Control Cable
- CC 600 P & CC 600 CP (UR/CSA/CE) - Flexible, Unshielded & Braid Shielded, Notch Resistant PUR Control Cable



CONTINUOUS FLEX CABLES

- **Food Prep:** Wash and Cleaning, Spraying, Cutting, Chopping, Stirring, Mixing, Marinating, Container Injection/Blow Molding, Robotic Motion
- **Food Processing:** Product Separators, Filling, Capping, Cooling, Pick and Place, Packaging, Labeling
- **Packaging:** Pick and Place, Packaging in Master Cartons, Palletizing, Shrink Wrapping



Food Preparation
Food Processing
Packaging



Features:

- Applications requiring alternate bending or continuous motion
- Long service life- millions of bending cycles
- Abrasion resistant
- Chemical and wash down resistant

Suggested Cables:

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



Cables & Accessories for Food & Beverage

FLEXIBLE TRAY CABLES

- **Food Prep:** Wash Down, Animal Incubators, Grow Houses, Meat Prep Equipment- Slaughtering, Cutting Up, Boning, Comminuting, Cooking
- **Food Processing:** Conveyor Systems, Heavy Mixing Equipment, Distilling and Manufacturing of Other Beverages
- **Packaging:** Injection Molding, Cold Storage, Bags/Boxes/Cans/Bottles- Packaging Systems.



Food Preparation
Food Processing
Packaging



Features:

- Flexible for easier installation
- Chemical resistant for washdowns
- Can be routed around tight bends and fit into confined spaces
- Shielded versions available
- UL TC-ER for exposed runs
- NFPA 79 compliant

Suggested Cables:

- TR 600 S & TR 600 S CY (UL TC-ER/CSA-TC/CE) - UV & Oil Resistant Flexible Cable, Shielded & Unshielded



FLEXIBLE VFD CABLES

- **Food Prep:** Drives, Conveyors, Pumps, Various Application Motors, Robotic Motion
- **Food Processing:** Drives, Conveyors, Pumps, Various Application Motors, E-stops for Conveyors
- **Packaging:** Motor Driven Pick and Place Equipment and Conveyors.



Food Preparation
Food Processing
Packaging



Features:

- Cables engineered to suppress the noise issues associated with VFD drives
- XLPE insulation offers improved capacitance for longer installations
- NFPA 79 compliant
- Flex or continuous flex operations
- Heavy-duty jacket for harsh environments

Suggested Cables:

- VFD XLPE TR (UL/CSA/CE) - 4c Power with Overall Shield
- VFD Combo XLPE (UL/CSA/CE) - 4c Power Plus Shielded Pair for Brake or Sensor
- VFD XLPE Auto TR (UL/CSA/CE) - 4c Power with Overall Shield for Continuous Flexing
- VFD XLPE Lean (UL/CSA/CE) - 4c Power with Overall Shield with Reduced Diameter



Cables & Accessories for Food & Beverage

FLEXIBLE SERVO CABLES

- **Food Prep:** Water Pumps, Product Lines, Meat Prep Equipment - Slaughtering, Cutting Up, Boning, Comminuting, Cooking
- **Food Processing:** Injection Marination Equipment, Pasta Makers, Heavy Industrial Mixers - Roasting, Grinding, Mixing, Molding
- **Packaging:** Gentry Robots, Picking and Packing Equipment, Automated Box Strapping Machine



Food Preparation
Food Processing
Packaging



Features:

- Available in position or feedback versions with copper screen (0.6/1 kV or overall)
- Halogen-free versions
- Good chemical resistance
- Long operating life
- Suitable for use in cable tracks

Suggested Cables:

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



TORSIONAL CABLES

- **Food Prep:** Wash & Cleaning/Spraying, Cutting/Chopping/Stirring/Mixing, Marinating, Container Injection/Blow Molding, Robotic Twisting Motion
- **Food Processing:** Product Separators, Filling, Capping, Cooling, Pick and Place, Packaging, Labeling
- **Packaging:** Pick and Place, Packaging in Master Cartons, Palletizing, Shrink Wrapping



Food Preparation
Food Processing
Packaging



Features:

- Designed for torsional movement
- Rugged PUR jacket
- Chemical resistant for washdowns
- Abrasion resistant

Suggested Cables:

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



Cables & Accessories for Food & Beverage

DATA & SENSOR CABLES

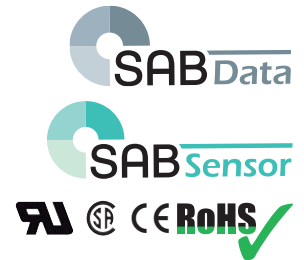
- **Food Prep:** Scheduling, Feed Mills, Temperature Control, Alarms and Safety Equipment
- **Food Processing:** Control Panels, Control Lights Scales, Actuators, Data Collecting Equipment, Portable Site Check Equipment
- **Packaging:** Bar Scanners, Labeling Equipment, Logistics Prep, X-ray Machines, Complete Over- All Networking Equipment.

CSA TYPE CMG or AWM I/II A/B 105°C 300V FT4



Food Preparation
Food Processing
Packaging

D-VIERSEN · LIYY 32x0.25mm² CE



Features:

- 26 AWG to 16 AWG data/communication cables
- Shielded, unshielded and paired with overall shield
- Flexible for easier routing

Suggested Cables:

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



FLEXIBLE INDUSTRIAL BUS & ETHERNET CABLES

- **Food Prep:** Scheduling, Feed Mills, Temperature Control, Alarms and Safety Equipment
- **Food Processing:** Control Panels, Control Lights Scales, Actuators, Data Collecting Equipment, Portable Site Check Equipment
- **Packaging:** Bar scanners, Labeling Equipment, Logistics Prep, X-ray Machines, Complete Over - All Networking Equipment.

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



Food Preparation
Food Processing
Packaging

0601-0222 UL AWM Style 2655 80°C 300V CE



Features:

- Available with PLTC rating for use in tray
- CATLine is available for continuous flex & torsion/robotic applications
- Resistance to extreme temperatures.
- CAT 5e, CAT 6, CAT 6A, or CAT 7A
- USB 2.0 and 3.0 versions also available.
- Profinet: Type A, B, & C

Suggested Cables:

- Profinet/CAT5 Cables (UL/CSA) - for Type A, B, & C Applications Plus Torsion and Reeling
- CATLine 6 & 6A Cables (UL/CSA) - for Continuous Flex, Torsion, Reeling, and High Temperature Applications
- CATLine 7A Cables(UL/CSA) - for Continuous Flex, Torsion, and Reeling



Cables & Accessories for Food & Beverage

EUROPEAN STANDARDIZED CABLES

- **Food Prep:** Installation of New European Equipment, UL, and EU Standards
- **Food Processing:** MRO for Equipment Made Overseas, Food Distribution Equipment
- **Packaging:** Can be Used in the States and Overseas



Food Preparation
Food Processing
Packaging



Features:

- Flexible for easier installation
- Can be routed around tight bends and fit into confined spaces
- Chemical resistant for washdowns
- Rubber Cordage per European Standards

Suggested Cables:

- H05V-K/MTW/TEW (UL/CSA/HAR/VDE/CE) - Harmonized 300/500 Volt Hook-Up Wire
- H07V-K/MTW/TEW (UL/CSA/HAR/VDE/CE) - Harmonized 450/750 Volt Hook-Up Wire
- H07RN-F (HAR/CE) - Harmonized 450/750 Volt Neoprene Heavy Duty Multi-Conductor Cable



FLEXIBLE HIGH TEMPERATURE CABLE

- **Food Prep:** Boiler, Water Heater, Distillation, Blending, Aeration
- **Food Processing:** Industrial Ovens, Industrial Steamers and Pressure Cooker, Plastic injection, Bottle Molding, Refrigeration/Cold Storage
- **Packaging:** Brewing, Filter Pressing, Fermentation, Cold Storage, Bottles, Cans, Barrels



Food Preparation
Food Processing
Packaging

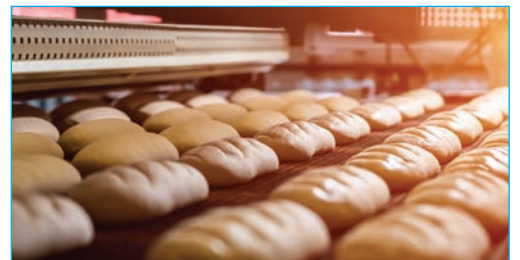


Features:

- Suitable for areas with high ambient temperatures in dry, damp or wet areas
- Resist temperatures as low as -50°C
- Resist high temperatures up to 180°C for continuous operation and up to 250°C for short periods.
- Continuous flex versions available

Suggested Cables:

- SC 600 HDTR (UR/CSA/CE) - Heavy-Duty, Tear Resistant Silicone Multi-Conductor Cable, Shielded Available
- SC 113 (CE) - 300 Volt Silicone Hook-Up Wire & SC 123 (CE) 500 Volt Silicone/Fiberglass Hook-Up Wire



Cables & Accessories for Food & Beverage

CORD GRIP & ACCESSORIES

Secure & Protect Your Cable

Food Preparation
Food Processing
Packaging

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

HYGIENIC CABLE GLANDS & CONDUIT FITTINGS

Stainless steel cable gland and conduit fittings available in NPT or metric thread

Smooth surface with all threads beneath cap nut preventing the depositing of harmful microorganisms

Features:

- Resistant to high-pressure water jet cleaning (IP 69K)
- Sustains disinfectant, cleaners, and acids or alkalies
- Suitable for high pressure steam cleaning
- Seal material according to FDA guideline 21 CFR 177.2600.



Accessories & Fittings

Enlargers	Reducers	Hole Plugs	Multi-Hole Bushing	Vent Gland & Plugs	Locknuts

Cables & Accessories for Food & Beverage

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:

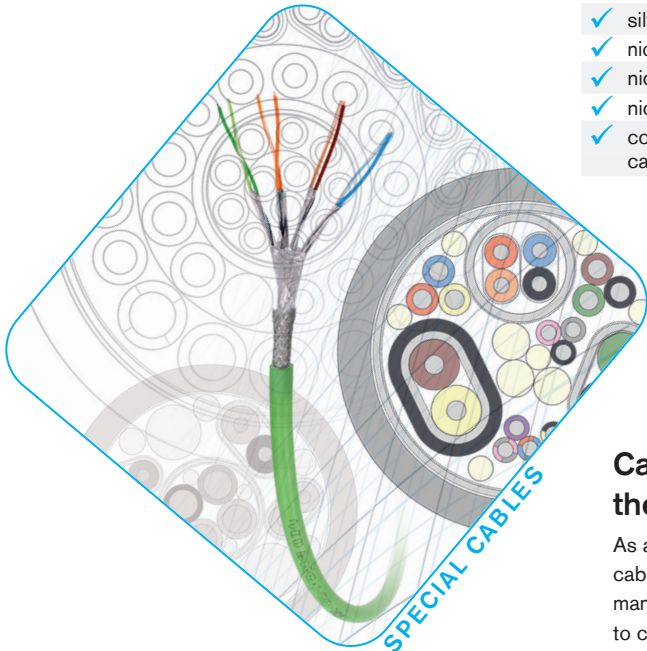
- ✓ PVC
- ✓ Polyethylene
- ✓ Polypropylene
- ✓ Polyurethane
- ✓ TPE
- ✓ SABIX® (zero halogen)
- ✓ Besilen® - Silicone
- ✓ FEP, ETFE, PFA, PTFE
- ✓ PI foil
- ✓ Fiberglass

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:

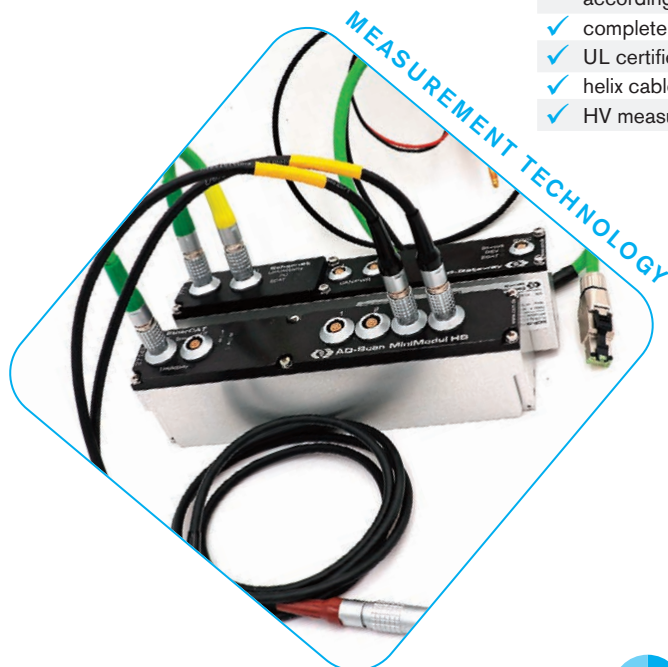
- ✓ cross sections 0.055 - 300 mm²
- ✓ unshielded and shielded over 100 conductors



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.

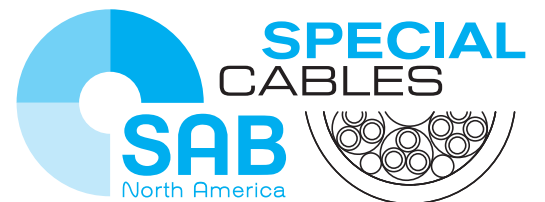
- ✓ cable assemblies according to customer's demands
- ✓ complete cable assemblies
- ✓ UL certified assemblies
- ✓ helix cables
- ✓ HV measuring assemblies



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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