

CABLES FOR ELECTRONICS AND INSTRUMENTATION

Round and flat shaped cables for power supply and communication in process control systems and connection of highly specific equipment for gauging and monitoring activities.

This cable family features an extreme customization level in electrical and mechanical design, both aimed to make cable highly performing for each specific machine and system.

Materials employed in construction allow these cables to withstand the toughest chemical-environmental stresses, given by the composition of the most destructive corrosive process agents such as oils and refrigerants, typical of industrial processes.



CUSTOM SOLUTION

In addition to the high customization level on each product, S.E.I.S. is at disposal for the design and production of hybrid cables specifically targeted to the integration of different functional elements in a whole custom solution, perfectly adapted to the most particular technical and installation needs.

TECHNICAL FEATURES

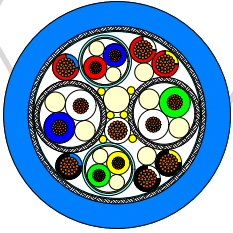
- OIL & CHEMICALS RESISTANT •
- WATER RESISTANT •
- ABRASION RESISTANT •
- FLAME RETARDANT •
- HALOGEN FREE •

COMOLIANCE & APPROVALS

- UL AWM (AVLV2) •
- UL AWM Canada (AVLV8) •
- 2011/65/EC - RoHS •
- 2006/95/EC - LVD •

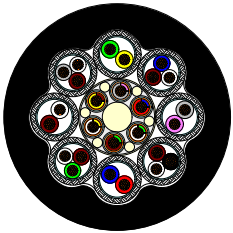


PRODUCT CATEGORIES



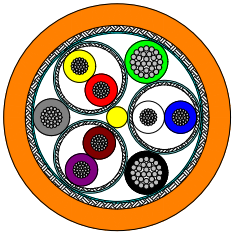
CABLES FOR GAUGING AND CONTROL SYSTEMS IN MACHINE TOOLS

Cables for in-process gauging and process control systems in machine tools, designed for the connection of probes and mechatronic components to the electronics which implements tool monitoring and control operations such as automatic spindle balancing, contact detection and tool progress. These cables are designed to support digital signal transmissions for reliable communication of the data detected by the sensors and are manufactured with materials resistant to the composition of the most destructive process agents such as oils and refrigerants used in mechanical processing.



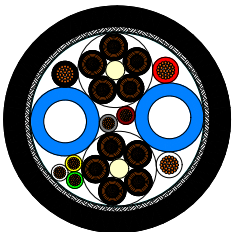
CABLES FOR MANUAL BENCH GAUGES

Cables for hand-held bench gauges used in post-process manual measurements and inspection of components. These cables connect the gauging instruments to the supply and acquisition system, withstanding the multiple stresses caused by the repetitive manual bending and twisting operations carried out by operators in measuring stations. Particular solutions in the design construction of conductors and screens, together with a careful selection of materials, allow cables to maintain high flexibility together with high resistance to continuative use.



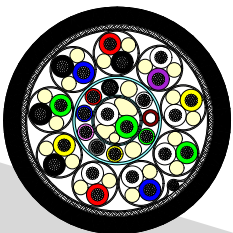
CABLES FOR AUTOMATIC GAUGING MACHINES AND SYSTEMS

Cable for automatic gauging machines and system for measurements and inspection of components by means of automated and repetitive operations. In these applications, the cable is subject to bending and handling cycles characterized by defined forward speeds, acceleration and bending radii. These cables are sized in order to withstand repetitive dynamic stresses during the entire expected life cycle, even when subjected to the highly corrosive chemical-environmental factors typical of industrial lines and work stations.



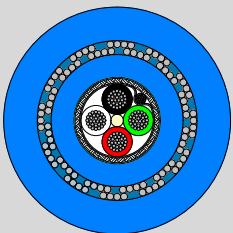
CABLES FOR PROBES AND NON-DESTRUCTIVE TESTS

Cables for the connection of Eddy current and ultrasonic probes, used in measurement systems for non-destructive control of industrial and railway components. Some particular products are intended for the connection of systems for the real-time measurement and monitoring of the thermal radiation emitted by the components subject to wear of the railway axles, such as wheels, brakes and bearings. Customized solutions are available for specific and automatic equipment, in which, together with the connection of the sensors, further elements are needed for the supply and control of drives and for fluids handling.



CABLES FOR LABORATORY INSTRUMENTS AND PRECISION MEASURES

Cables for laboratory instrumentation and high precision analog and digital measurement equipment, intended for application where high immunity to electromagnetic disturbances and strictly defined electrical parameters of transmission line are essential requirements for the proper functionality of measuring electronics. These cables include product types intended for electronic measuring equipment and laboratory applications for electrochemical analysis, by means the connection of instruments such as hydrometers, thermo-hygrometers, thermometers, pH and conductivity meters and smoke analyzers.



CABLES FOR TRANSDUCERS, LOAD CELLS AND WEIGHING SYSTEMS

Cables for force and displacement measuring equipment, used in the connection of transducers, pressure transmitters, digital pressure gauges, dynamometers and related electronic instrumentation. Particular attention and development are paid to cables for connection of load cells, used in specific static and dynamic weighing and lifting systems installed in industrial, iron and steel and shipbuilding.