

Syntax[®]

CONNECTORS MANUFACTURERS



Visit our website www.valentininet.com



Inventors, manufacturers, innovators.

Valentini is a dynamic, ever-evolving company operating in over 60 countries worldwide. For more than 30 years we have actively researched, designed and manufactured connectors for power, signal and hybrid applications.

Our Syntax connectors have been used all over the world to manage power and electric signals in fields such as industry, automotive, broadcasting, shipbuilding & ship to shore power, international sporting events, live shows, military & national emergency management by agencies such as the Italian Civil Protection Department, and so many more.

Valentini is an environmentally-aware company where respect for the environment is an integral part of the manufacturing process. Our team is motivated and mindful of details, as we are aware of how important details are in our pursuit of uncompromised quality and utmost reliability.



Application examples

- Electrical power systems
- Power distribution
- Wind power
- Solar energy
- Battery units
- Mobile generators
- Industrial vehicles
- Railway installations
- Construction sites
- Networks management
- Temporary power
- Military installations
- Load banks
- Backup power systems
- Electrical power supply companies
- Heavy industry
- Outdoor concerts and sporting events
- Outdoor broadcasting
- Theatres
- Medical devices
- Lighting
- Shipyards



PowerSyntax

Single pole power connectors and accessories of the highest quality

The PowerSyntax series of Powerlock compatible single pole connectors are specifically suited for the electrical supply management for currents up to 480amp or 750amp. PowerSyntax features a number of mechanical and technical enhancements, with a design that has redefined the standards on this category of connectors as for safety, reliability, ease of handling and robustness in the harshest conditions.



Syntax SSX

A multipin power connector with a great versatility

We have never stopped improving our Syntax SSX series. In our pursuit of achieving the highest quality in terms of reliability and ease of use, and providing the best Socapex-compatible 19-pin connectors in the world, we pay extreme attention to details and materials involved, such as the special 6082 anticorodal aluminium alloy which gives extraordinary toughness to our shells. The rounded edges of the female contacts preserve the integrity of the thermoplastic insulating inserts enabling easy contact insertion and smooth, almost seamless mating with the male connectors. Our armored contacts are indeformable and guarantee a stable and reliable connections.



Syntax Gigamod Hybrid

Signal and power all in one modular hybrid circular connector

A central insert carrying power or digital signals. A circular outer shell with up to 16 contact modules for multiple Ethernet, HDMI, USB3 signals. Modular mechanically interlocked elements that open up a world of possibilities for your jobs in so many fields. Combine them and create your solution. Two main connector options, with 8 or 16 outer signal modules, both inline and panel. Five different central inserts to carry power or additional signals. Multiple combinations to suit the job requirements. Explore the SGH range of connectors and modules.

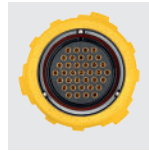
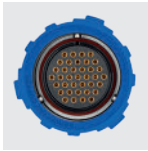




Syntax Bayonet SVK

A synthesis for perfect balance

The Syntax SVK series provides super-reliable military-grade connecting solutions for a wide range of application fields. It is available in 8 different insert arrangement configurations, from 13 to 150 contacts. All details have been thoughtfully engineered to set highest quality standards and provide an exceptional level of strength, durability and comfort. Its IP67 waterproof rating (when mated) makes the Syntax SVK series suitable for any kind of usage. On the females, the locking ring is comfortable to lock and has a thick-walled construction for increased durability in case of accidental blows. The roller pins ensure easy coupling with an audible click when locked. Compliant with SAE-AS50151 (formerly known as MIL-C-5015) & VG95234 standards.



Syntax Bayonet SHD

Heavy duty series, born to be tough

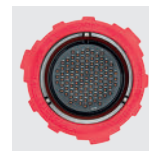
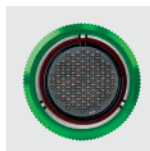
The Syntax SHD Roadline series has set a new benchmark for industry standard SAE-AS50151 & VG 95234 designs, providing extra-reliable military-grade performance in such diverse fields as industrial machinery, automation, energy, managing of audio channels, live events, broadcasting and connections of a wide range of devices, both indoors or outdoors. It is available in 8 different insert arrangement configurations, from 13 to 150 contacts. Its extreme robustness guarantees long term reliability and an increased number of mating cycles in rigorous conditions. Bigger coupling roller pins and deeper knurled shells provide easy mating/unmating. Thicker machined construction prevents ovalization of the locking rings caused by unintentional blows. The SHD connectors are IP67 when mated. Environmental caps are available on request to keep IP67 protection on unmated connectors.



Syntax Bayonet SVS

Slim High Density connectors

The Syntax SVS Slim High Density series connectors have been conceived and manufactured to set a higher standard for indoor as well for outdoor applications, thanks to their IP67 waterproof rating. SVS connectors are compliant with SAE-AS50151 VG 95234 military standards. The new version of the series has been enhanced to achieve a higher level of strength and durability, thanks to thick walled backshell and locking ring. Our locking rings are designed to prevent possible ovalization of the insert due to accidental blows, with deeper knurling for easy coupling. The increased size of the roller pins ensures stable and reliable connections.





Syntax Bayonet SPK

Carrying all the power you need

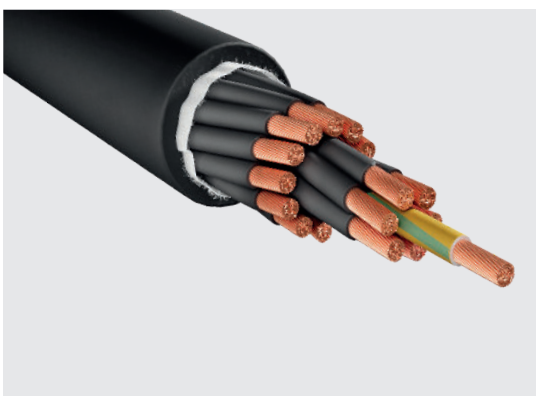
The Size 12 high conductive alloy machined contacts are the heart of the SPK family. Each contact provides 41 amp max current and 23 amp rated current, making our SPK connectors ideal not only for the live entertainment world and loudspeakers connections, but also for industrial applications as well as for field operations that require high power. SPK connectors are compliant with SAE-AS50151 & VG 95234 military standards and come in 3 different models: 4 pin, the smallest one, 8 pin, fully compatible with the CA-COM type connectors, and the new 25 pin, which can be used in combination with 3-way, 6-way or 12-way grommets.



Syntax Bayonet SB

Signal and power underneath a flawless suit

The Syntax SB connector's mechanical features ensure high quality, extreme durability and safe connections. The SB series is available in 16 different arrangement layouts for the inserts, with contacts ranging from size 0 to 16S, allowing transmission of power and signals. A typical application for the SB Series is the connection between HMI ballasts and lamps: the SB family includes connectors compatible with all major HMI lamp manufacturer specifications, covering 400W-20KW HMI ranges. Bayonet lock with roller pins ensures easy mating, granting high quality connections over a high number of coupling cycles. The SB series is compliant with SAE-AS50151 & VG 95234 standards and is IP67 waterproof when mated.



Syntax Cable

The key ingredient for a reliable connection

The Valentini Syntax Cable range has been developed for a wide variety of possible applications: network cables, used everywhere from simple office connections to medical appliances to heavy industry; cables for the entertainment world, loudspeakers, lights, microphones, mixers; energy cables to bring power wherever it is needed; the endless possibilities of hybrid signal and power connections with a single cable. The common denominator of all these products is the excellence of the electrical and mechanical properties and the thorough attention to the designs and materials, certified by our Syntax Cable brand.



Syntax® Tools

Essential to connecting

Tools for crimping, insertion & removal of contacts and tightening tools for Syntax connectors.



Hydraulic crimp tool
Hand operated or cordless,
for PowerSyntax contacts



Manual crimping tool
For 16-18-20 contact sizes



Turret positioner

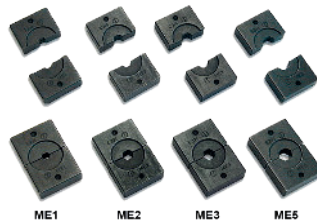


optional for manual and
pneumatic crimp tool

Pneumatic crimp tool
For 11-12-16-18-20 contact sizes



Hydraulic crimping tool 45kN
For size 4 and size 8 contacts



ME1 ME2 ME3 ME5



Customized wrench



Strap wrench

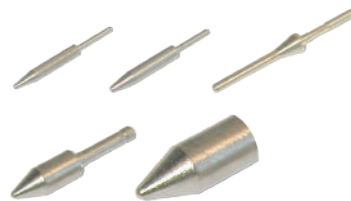
Tightening tools

Once wiring is carried out, the connector can be easily locked with our customized wrench or the strap wrench, which provides best grip on circular knurling.



Insertion tools

Insertion tools for male and female contacts (using guide pins is recommended for female contacts).



Guide pins

Used to insert female contacts only. Remove the guide pin from the inserted contact and use it for the next contact.

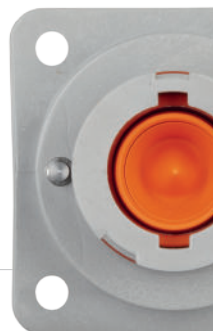
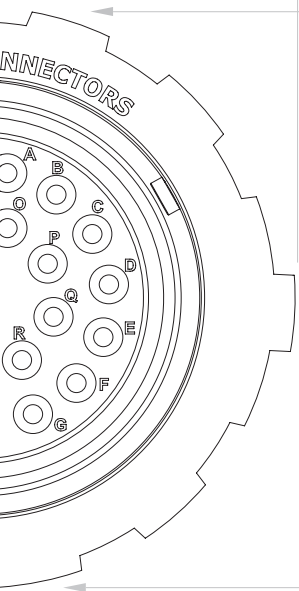


Removal tool

Only use the recommended removal tool to remove a contact or adjust its position in the cavity.



 **Genuine
Italian
Products**



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