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2019 Edition





Panel connector with microswitch PATENT PENDING

> Quick release system PATENT PENDING

> > IP67 covers



IP2X Drain lock PATENTED

# **NEWS Index**

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This version of the panel-mount SPX connectors has a pilot microswitch built-in in the connector's body



 Omega
 PATENT PENDING

 Omega
 SyntaxLock

Release system for the secondary lock on PowerSyntax connectors and IP67 protection caps. Supplied as an optional accessory, it can be retrofit on all PowerSyntax connectors



#### 12 IP67 J 5 Protection caps

Protection caps are now available in two versions, as a new range of IP67 waterproof caps has been introduced in addition to the IP53 caps that were already available

#### **ICONS** Key

Chain Pilot (optional) Icon indicates items where Chain Pilot is available as an optional product version



SyntaxLock (optional) Icon indicates versions where SyntaxLock is available as an optional accessory



**IP67 protection caps** (optional) Icon indicates items where IP67 covers are available as an optional accessory



M5 fittings (optional) Icon indicates versions where M5 threaded fittings are available as an optional for rear panel-mount



**IP2X drain contact lock** (standard) **PATENTED** Icon indicates versions where drain contact lock is supplied as standard

#### Line connectors PowerSyntax®

#### Line Source SPX

Innovative ergonomic hand grip for easy handling. IP2X finger protection to prevent touching live parts. Contact to housing retention through flameretardant UL94-VO plastic cotter pin. No special assembling tools needed. Secondary locking safety system. Set Screw termination for 25 mm<sup>2</sup> - 150 mm<sup>2</sup> cables. Crimp termination for cables up to 300 mm<sup>2</sup>. IP68 plastic cable gland for cable strain relief, with 15 - 32 mm (M40) or 30 - 38 mm (M50) clamping range. Permanent phase/line identification and safety information markings embossed on connector's shell. No additional information stickers applied. **SPX 4** 480amp with set screw contacts. **SPX 7** 750amp with crimp contacts. SPY EasiLug with bi-metal (aluminum/copper) or copper lug contact with crimp terminal. SPV with bi-metal (aluminum/copper) crimp contact. For secondary lock release, use SyntaxLock or





#### Line Drain SPX

standard release key.

Innovative ergonomic hand grip for easy handling. IP2X protection through patented drain contact lock. Contact to housing retention through flameretardant UL94-VO plastic cotter pin. No special assembling tools needed. Secondary locking safety system. Set Screw termination for 25 mm<sup>2</sup> - 150 mm<sup>2</sup> cables. Crimp termination for cables up to 300 mm<sup>2</sup>. IP68 plastic cable gland for cable strain relief, with 15 - 32 mm (M40) or 30 - 38 mm (M50) clamping range. Permanent phase/line identification and safety information markings embossed on connector's shell. No additional information stickers applied. SPX 4 480amp with set screw contacts. SPX 7 750amp with crimp contacts.

**SPY EasiLug** with bi-metal (aluminum/copper) or copper lug contact with crimp terminal. **SPV** with bi-metal (aluminum/copper) crimp contact.

For secondary lock release, use **SyntaxLock** or standard release key.







#### **PowerSyntax<sup>®</sup> Line connectors**



#### Line Source SPZ

#### SPZ short body version

Innovative ergonomic hand grip for easy handling. IP2X finger protection to prevent touching live parts. Contact to housing retention through flame-retardant UL94-VO plastic cotter pin. No special assembling tools needed. Secondary locking safety system. Set Screw termination for 25 mm<sup>2</sup> - 150 mm<sup>2</sup> cables. IP68 watertight M40 plastic cable gland for cable strain relief, with 15 - 32 mm clamping range. Permanent phase / line identification and safety information markings embossed on connector's shell. No additional information stickers applied. SPZ 4 480amp with set screw contacts. For secondary lock release, use SyntaxLock or standard release key.







#### Line Drain SPZ

#### SPZ short body version

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# Panel connectors PowerSyntax®

#### **Panel Source**

Specific housing for protection cap lacing moulded on the plastic body of the flange. IP2X finger protection to prevent touching live parts.

Contact to housing retention through flame-retardant UL94-VO plastic cotter pin. No special assembling tools needed. Secondary locking safety system. Front or rear panel mount. Optional M5 threaded fittings available for rear panel mount. Permanent phase / line identification and safety information markings embossed

on connector's shell. No additional information stickers applied.

SPX 4 480amp and SPX 7 750amp versions available.

M12 contacts with M12 threaded post or M12 threaded hole.

Set screw, Crimp or EasiLug contacts available or request.

Threaded body with thermoplastic backshell and IP68 cable gland available. For secondary lock release, use **SyntaxLock** or standard release key.







#### **Panel Drain**

Specific housing for protection cap lacing moulded on the plastic body of the flange. IP2X protection through patented drain contact lock.

Contact to housing retention through flame-retardant UL94-VO plastic cotter pin. No special assembling tools needed. Secondary locking safety system. Front or rear panel mount. Optional M5 threaded fittings available for rear panel mount. Permanent phase / line identification and safety information markings embossed on connector's shell. No additional information stickers applied. **SPX 4** 480amp and **SPX 7** 750amp versions available.

M12 contacts with M12 threaded post or M12 threaded hole. Set screw, Crimp or EasiLug contacts available or request. Threaded body with thermoplastic backshell and IP68 cable gland available. For secondary lock release, use **SyntaxLock** or standard release key.







# **PowerSyntax<sup>®</sup> Panel connectors**

# **Chain Pilot** Panel connector with microswitch

This version of the panel-mount SPX connectors has a built-in pilot microswitch. The SPX chain pilot has been designed to obtain a protective electrical interlocking (or additional controls) through a chain of simultaneously operating connectors (see circuit diagrams on next page). When a panel connector is mated with its coupling cable connector, a spring device pressed by the thermoplastic insulated body edge of the cable connector is operated to activate the pilot microswitch housed in the rear of the flange. The SPX Chain Pilot version is available on both panel drain and panel source, 480amp and 750amp.



On the panel drain, the spring device activating the microswitch is placed outside the mating part of the connector's shell







# **Chain pilot panel source**

On the panel source, the spring device activating the microswitch is placed inside the mating part of the connector's shell









# **Pilot microswitch technical data**

Switching function	Changeover switch (SPDT momentary)
Number of poles	1 - pole
connections	Quick-connect terminal, 2.8 x 0.5, sealed
Mechanical life endurance	10E6
Rating IEC / Rating North America	10 (3) A 250 V AC 10E3
Design	DIN 41635 B
Contact resistance (new condition)	< 100 (1 A 12 V DC) mOhm
Insulation resistance (new condition)	> 100 (500 V DC) MOhm
Voltage strength at 250 V	$\rightarrow$ function insulation / basic insulation 1 500 V $\rightarrow$ small contact distance 500 V
Insulation spacing	acc. to EN 61058 for reinforced or double insulation
Flammability	UL 94 V-0
Glow wire test temperature	850 °C

# Wiring diagrams



All diagrams are shown with circuits de-energised, all devices open in released position

# **Panel mount cut-out options**

PANEL DRAIN FRONT



PANEL SOURCE FRONT



PANEL DRAIN REAR



PANEL SOURCE REAR



The SPX chain pilot panel drain / source can be front or rear mounted on panels. Cut-out dimensions are different for front and rear mount. Rear panel mount versions with M5 threaded fittings on request. Please contact our Technical Department for CAD drawings.

# **PowerSyntax®** Panel connectors

# A complete system of panel-mount connectors for PowerSyntax contacts

The PowerSyntax SPX panel drain/source connectors can be equipped with contact versions for different cable terminations, for up to 480amp or up to 750amp.

#### SPX panel connectors with M12 threaded post



As a standard, the PowerSyntax SPX panel-mount connectors are provided with fully assembled M12 threaded post contacts, suitable for connection to a standard cable lug. The M12 threaded post contacts are available for either 480amp or 750amp current rating.

**SPX** panel connectors with

set-screw / crimp contacts

#### SPX panel connectors with M12 threaded hole



As an alternative, the SPX panel-mount connectors can also be supplied with fully assembled M12 threaded hole contacts for fixing through a bolt. The M12 threaded hole contacts are available for either 480amp or 750amp current rating.

#### SPX panel connectors with EasiLug contacts



This version of the panel-mount SPX PowerSyntax connectors is provided with a set screw or crimp terminal, depending on the cable section:

- Set-screw contact terminal with reduction sleeves for 25-150 mm<sup>2</sup> copper cables up to 480amp
- Crimp contact terminal for 185 240 mm<sup>2</sup> copper cables up to 750amp



This version of the panel-mount SPX PowerSyntax connectors is provided with copper or bi-metal aluminum/ copper EasiLug contact:

- EasiLug contact with copper lug terminal for copper cables up to 750amp
- EasiLug contact with bi-metal aluminum/copper lug terminal for aluminum cables up to 480amp



# **Connectors with threaded body and backshell**



The PowerSyntax SPX panel mount connectors are available with threaded body to fit a thermoplastic backshell. As well as the backshell, this system features an IP68 cable gland and provides IP67 watertight seal at the cable clamp. This version can be supplied with different contact terminal types:

- Set-screw contact terminal with reduction sleeves for 25-150 mm<sup>2</sup> copper cables up to 480 amp
- Crimp contact terminal for 185 240 mm<sup>2</sup> copper cables up to 750 amp
- EasiLug contact with copper lug terminal for copper cables up to 750 amp
- EasiLug contact with bi-metal aluminum/copper lug terminal for aluminum cables up to 480 amp











Set of 5 Panel Panel Drain connectors with backshell (panel rear view)





## PowerSyntax<sup>®</sup> Secondary lock release



Suitable for all PowerSyntax connectors Can be fitted or removed at any time A simple, universal accessory Quick and easy to install



The SyntaxLock is a Syntax proprietary release system for the secondary lock on PowerSyntax connectors and IP67 protection caps. It eliminates the need for separate release keys that could be lost by technicians in everyday usage. In full compliance with the international electrical regulations, the connectors will be disconnected with a voluntary operation on the key (do not uncouple under load). Supplied as a separate accessory, the SyntaxLock is extremely easy to install and can be removed quickly from the connectors. The SyntaxLock can also be ordered as a retrofit accessory to be installed on all PowerSyntax connectors build as of 2011.



The SyntaxLock is supplied as a universal kit to be fitted on either line source or panel source connectors. The kit consists of:

- 1 collar (for line or panel source)
- 1 set of bolt / nut
- 1 release key for panel source
- 1 release key for line source
- Order code: SPX-SYLOCK



SyntaxLock for Line Source



SyntaxLock for Panel Source

#### Secondary lock release PowerSyntax®





Line source equipped with SyntaxLock and IP67 cover



Panel source equipped with SyntaxLock and IP67 cover



SyntaxLock assembled with key for Panel Source



SyntaxLock assembled with key for Line/Panel Drain cover



Line drain equipped with IP67 cover and SyntaxLock



Panel drain equipped with IP67 cover and SyntaxLock



#### SECONDARY LOCK AND RELEASE KEY

The secondary lock prevents unintentional disconnection under load. It is obtained through a locking pin on the drain connector which snaps into a slot on the mating source connector.



### PowerSyntax<sup>®</sup> Covers

# **Protection caps**

#### Waterproof protection for PowerSyntax connectors



The PowerSyntax IP67 caps ensure complete waterproof protection.

The PowerSyntax caps are universally keyed to be fitted on any connector's phase, so that just one cap version is needed respectively for Source and Drain connectors resulting in easier management and lower investment through reduced stock assortment. For full safety, the PowerSyntax IP67 caps feature the secondary locking system. The secondary lock will be released using SyntaxLock or a standard release key.





From top to bottom: IP67 protective cover for source IP67 protective cover for drain



From top to bottom: Panel source equipped with SyntaxLock and IP67 cover. Panel drain with IP67 cover (SyntaxLock mounted directly on cover).





Special housing on caps for lacing. Lacing through special high-resistance cable made up of seven stainless strands, and covered by anti-scratch teflon black tubing.

# Covers PowerSyntax®

# **Protection caps** Protective covers for PowerSyntax connectors



The IP53 caps are fast, easy way to protect PowerSyntax connectors. The use of protective caps results in: • Extended life span of the connectors as the mating faces are protected against impact damage and abrasion • Improved safety as contacts are protected against dust and water even when the connectors are not mated

**Protection caps lacing** 



On the PowerSyntax caps, all details have been designed with a strong focus on resistance and reliability. A specific housing for the cap's lacing has been moulded directly on the flange of the panel-mount versions (photo 1) and on the body of the inline versions (photo 2). The caps are laced to the connector's body through a special high-resistance cable made up of seven stainless strands, and covered by anti-scratch teflon black tubing.



### PowerSyntax<sup>®</sup> SPV Bimetal

The SPV

#### Aluminium/copper bimetal contact for aluminium cable



bimetallic contact is obtained by the soldering of the aluminium and copper as raw materials. The crimp terminal of the SPV contact is made of aluminium to allow corrosion-free termination onto aluminium cables.

Since the PowerSyntax<sup>®</sup> connectors were first introduced on the market, they have been used in a number of different applications from events to mobile generators to backup power systems. As well as improved safety compared to previous standards, for most users one of the main advantages of the PowerSyntax<sup>®</sup> has been its quick and easy connection.

SPX and SPZ standard PowerSyntax<sup>®</sup> connectors are suitable to be used with various copper cable sections. For some applications, though, there has been a demand that these connectors may be used with aluminium cable. However, as the standard PowerSyntax<sup>®</sup> connectors feature copper or copper based contacts, they should not be used for direct termination onto aluminium cables as galvanic corrosion and overheating may occur.

The aluminium/copper bimetal contact of the SPV allows the use of the PowerSyntax<sup>®</sup> connectors with aluminium cable, combining the advantages of this type of connection with the lighter weight associated with aluminium cable.



#### A dual purpose system with adapters for copper and aluminium cables



SPY EasiLug is a quick, safe and easy means to fit lug terminal single core aluminium or copper cables into a classical Power Syntax<sup>®</sup> single pole connector. It combines the reliability of a lug termination cable with the convenience of a Power Syntax<sup>®</sup> connector. The result is an IP67 waterproof terminal block, which also enables to disconnect the line without need of any tools (this operation must be carried out in absence of voltage).

#### **Advantages**

Super quick assembly.

Reusable to fit cables of different lengths.

Versions available for cable up to 300 mm<sup>2</sup> (aluminium or copper).

Greater versatility than any other high power single pole connection.

This grants electrical safety and easy phase identification without need of other devices.

Less maintenance than cables fitted with set screws /sleeve systems, or crimped cables.

Lug terminal cables directly fitted into mechanically keyed, color coded Power Syntax<sup>®</sup> connectors.

Standardises the single pole connections, using the same connector's body as SPX/SPZ with crimp or set screw contacts. Quick connect cables with lug terminals into power distro devices equipped with PowerSyntax<sup>®</sup> panel-mount connectors.

#### **Assembling elements**



# **PowerSyntax® Phase Inverters/Adaptors**

# Fast, safe and reliable reversal of two phase conductors

The PowerSyntax® Phase Inverters/Adaptors (up to 480amp) have been designed to solve two specific problems

- reverse the rotation direction in three-phase motors, etc... by changing the phase sequence (L1-L2-L3) between the power source and the connected devices
- provide those who use only one model of phase conductor (L1, L2 or L3) to operate L1-L2-L3+Neutral systems with an interface between standard 3-phase power generators / distros and their devices.

The former is a common demand in industrial applications. The latter is a specific need of entertainment and cinema industries.



# S2W Splitter Box PowerSyntax®

# S2W 2way 480amp SPX splitter box



#### **TYPICAL APPLICATIONS**

- · All temporary electrical systems
- Power distribution
- · Outdoor concerts and sports events
- · Outdoor broadcasting
- · Theatres, studios and film sets
- Mobile generators
- Industrial vehicles
- Railway and military installations
- · Load banks
- Back-up power systems

#### **TECHNICAL DATA**

- Rated current: 480amp, 400VCA, (Syntax® SPX 480amp).
- IP rating: IP55





#### Splitter BOX S2W with Syntax<sup>®</sup> SPX 480Amp connectors

Available in stock with EU standard colours. Please contact us to learn availability for different colour standards (traditional UK, Australia and USA). Standard and reverse versions are available.

The reverse version differs from the standard only for the position where the INPUT connector is assembled (on the reverse version, the INPUT is inline with one of the OUTPUTS).



Available versions and Part Number						
1 Input male	Color	2 Output female	Color	P/N		
L1		L1		S2WX111000S		
L2		L2		S2WX222000S		
L3		L3		S2WX333000S		
nb: for the reverse version replace final "S" by "R" in the p/n For the version with safety lacing add "-L" at the end of the p/n						

#### S2W 480Amp Phase Inverter/Adaptor/Multiplier

The PowerSyntax Phase Inverters/Adaptors (up to 480A) have been designed to solve two specific problems

- reverse the rotation direction in 3-phase motors, etc. by changing the phase sequence (L1-L2-L3) between the power source and the connected devices;

- provide those who use only one model of phase conductor (L1, L2 or L3) to operate L1-L2-L3+Neutral systems with an interface between standard three-phase power generators/distros and their devices.

The former is a common demand in industrial applications. The latter is a specific need of entertainment and cinema industries. Standard and reverse versions are available (standard versions in the photo). The reverse version differs from the standard only for the position where the INPUT connector is assembled (on the reverse version, the INPUT is inline with one of the OUTPUTS).



Available versions and Part Number					
1 Input male	Color	2 Output female	Color	P/N	
L1		L3		S2WX133000S	
L2		L3		S2WX233000S	
L3		L2		S2WX322000S	
L1		L2		S2WX122000S	
L2		L1		S2WX211000S	
L3		L1		S2WX311000S	
nb: for the reverse version replace final "S" by "R" in the p/n For the version with safety lacing add "-L" at the end of the p/n					

# **PowerSyntax®** Contacts

# **Contact and cable retention types**

The PowerSyntax connectors are equipped with different contact types, depending on current rating (480amp or 750amp), cable material (aluminum or copper), connectors body type (line or panel-mount) and cable terminations.



Set-screw contact, up to 480 amp. Cable retained through reduction sleeve (25-150 mm<sup>2</sup>) and set screws. Used as a standard on SPX/SPZ 480amp line source/ drain connectors, the set screw contact is also available for panel-mount connectors on request.



Crimp contact, up to 750 amp (all-copper contact on SPX 750 amp) or 480 amp (bi-metal contact on SPV)



EasiLug contact, up to 750 amp (all-copper terminal for copper cable). Used as a standard on SPY 750amp connectors, this EasiLug contact is also available for panel-mount connectors on request.



EasiLug contact, up to 480 amp (bi-metal aluminum/ copper terminal) for aluminum cable. Used as a standard on SPY 480amp connectors, this EasiLug contact is also available for panel-mount connectors on request.



M12 threaded-post contact, up to 750 amp (all-copper contact) or 480 amp. Lug terminal retained through M12 nut. Used as a standard on SPX 4 and SPX 7 panel-mount connectors.



M12 threaded-hole contact, up to 750 amp (all-copper contact) or 480 amp. Lug terminal retained through M12 bolt. Used as an alternative for M12 threaded-post contacts on SPX 4 and SPX 7 panel-mount connectors.

#### Technical features PowerSyntax®

**IP2X drain contact safety lock** 











The external shell has an ergonomic design which grants optimal handling and grip, also when operating with gloves. In particular, the sides of the hand grip are specifically designed for easy pushing/pulling of the connector when mating/unmating.



# **Multilouver contact band and locking mechanism**



The multilouver contact band is the core of this standard of connectors. However, on some legacy connectors, the way the contact band retention system is engineered does not ensure its positive locking. With the multilouver contact band out of its recess, the conductive surfaces will no longer be in contact, impeding the current transfer (1). To ensure the efficiency of the connection in any situation, we adopted a solution which keeps the multilouver spring loaded band in its positive location. The contact band is held in its locked position by a special ring, on which a 2.5 ton. pressure has been applied (2). This solution prevents derailment of the multilouver contact band (3).

### **New threaded IP2X protection**



#### On PowerSyntax, the touch-proof protection on source contacts features a threaded attachment for improved safety. Since this style of connectors were first introduced on the market, the typically harsh conditions of their everyday usage might result in breakage of the insulation caps, with risks for the operators' safety as the edges of the metal conductive parts remained totally exposed. Thanks to this solution, the touch-proof cap is positively threaded and then blocked with specific adhesives to make it immovable. This system reduces the risk of breakage as the bond between the protective elements and the live parts is strengthened, while improving safety for the users through reduced exposure of the metal parts, as a portion of the insulating cap will remain in its position on top of the source contact even in case of damage.



#### **Contact guide pin**

For easy alignment of the holes on contact and insulating body, and quick insertion of the red dowel pin, the PowerSyntax contacts feature a guide pin with a corresponding recess in the insulator. With the guide pin automatically driving the contact in its correct position, the assembling operations are easier and quicker. Thanks to this solution, the contacts can be assembled even in harsh environmental situations.

After locating recess A in the body, find guide pin B on the contact, then insert guide pin B inside recess A as shown in pic.1 For contact fastening, after locating hole C on the body, insert dowel pin D in hole C. Contact retention is then completed as shown in pic. 2





#### Sleeve adapter for set screw contacts

The ultimate solution for 25 to 95 mm<sup>2</sup> cables Simple. Logical. Reliable.



The PowerSyntax Sleeve Adapter is a unique mechanical solution for ideal cable retention when a PowerSyntax with set screw contact is used with cable sections of 95 mm<sup>2</sup> or smaller.

On other connectors commonly found on the market, multiple concentric sleeves are used to reduce the cable section from 150 or 120 mm<sup>2</sup> down to the smaller section specifically needed, with as many as 4 or 5 concentric sleeves required in case of 35 or 25 mm<sup>2</sup> sections. The thoughtful design and the mechanical reliability of the PowerSyntax sleeve adapter eliminates the need to use multiple concentric sleeves.

On the adapter, two through holes allow that set screws of a length suitable for a specific sleeve size are used, so that the compression is directly on the sleeve/cable, with no others sleeves in between. The adapter is available in different versions, each with a housing where a single reduction sleeve of the needed size is fitted.

#### Cable stripping and retention



On set-screw contacts (up to 480amp power and 150 mm<sup>2</sup> cable sections), the cable is inserted into the set-screw terminal with the suitable reduction sleeve. Reduction  $sleeves are available for 25, 35, 50, 70, 95, 120 \, and \, 150 \, mm^2.$ For all sleeve sizes, the stripping length is 33 mm (Pic. 1).



On crimp contacts (up to 750amp copper / 480amp bimetal, and up to up to 300 mm<sup>2</sup> cable sections), the position and number of cable compressions vary according to the different cable sections (see table below). Cable stripping length is 42 mm (Pic. 1).

Cable strip length Pic. 1

	SET SCREW / REDUCTION SLEEVE	CRIMP		
Cable section	from 25 to 150 mm <sup>2</sup>	185 mm <sup>2</sup>	240 mm <sup>2</sup>	300 mm <sup>2</sup>
Cable strip length L - Pic.1	33 mm	42 mm	42 mm	42 mm
Tightening torque	12 Nm	-	-	-
Number of compressions	-	2	3	3
Hand operated hydraulic crimp tool	-	HPI130-C	HPI130-C	HPI130-C
Cordless hydraulic crimp tool	-	B1350-C	B1350-C	B1350-C
Crimp die set	-	ME 37-C	ME 60-C or U13-K28D	ME 60-C or U13-K28D





Cordless hydraulic crimp tool

# PowerSyntax<sup>®</sup> SPX / SPZ / SPV / SPY

SPX, SPZ, SPY and SPV are the new Power Syntax® series of single pole electrical connectors. Power Syntax® are specifically suited for the electrical supply management from 480amp up to 750amp (see technical data table at the bottom of this page).

Although fully intermateable with the original (and all the previous Syntax® versions), the new Power Syntax® features a number of mechanical and technical enhancements which have been designed and incorporated to redefine the standards on this category of connectors as for safety, reliability, ease of handling and robustness in the harshest conditions.

#### **Typical applications**

- Electrical power systems
- Power distribution
- Outdoor concerts and sporting events
- Outdoor broadcasting
- Theatres
- Mobile generators
- Industrial vehicles
- Railway installations
- Military installations
- Load banks
- Backup power systems
- Electrical power supply companies
- Heavy industry

#### **Technical data**

- Number of contacts:
- Max continuous current rating with brass or bimetal contact:
- Max continuous current rating with copper contact:
- Test Voltage:
- Short Circuit Rating:
- Insulation Resistance:
- IP rating when mated:
- Protection against electric shock:
- · Contact resistance:
- Housing material:
- Flammability:
- Coupling method:
- Number of mating cycles:

single pole

480amp

750amp 4500 V AC 35.5kA peak >5000 MOhm @500V IP67 IP2X <0.1 mOhm high temperature thermoplastic UL94 V0 bayonet lock with secondary locking pin >500 -30°C/+125°C

#### **General features**

- Intermateable with other versions
- CE compliant
- EN/ESI compliant
- Contact retained within the thermoplastic housing with a flame-retardant UL94-VO plastic pin. This method ensures quick assembling and disassembling. No special extracting tools are needed
- · Heavy-duty ergonomic hand grip, with sides specifically designed for easy pushing/pulling when mating/unmating
- Metric thread M40 cable gland IP68 watertight compliant with EN/CE, adapters available for cables over 32 mm diameter
- Screw, Crimp and Lug terminals to facilitate cables from 25mm<sup>2</sup> to 300 mm<sup>2</sup>
- Mechanically keyed to prevent mating errors
- · Permanent marking to identify phase/line and safety information embossed on connector's body
- Multipoint contact area
- Silver Plated Contacts
- High Impact bodies
- EN harmonized color coding (Europe). Also available in UK, Australia and USA color codes



DATA FOR 90°C COPPER CABLE RATINGS (for aluminium cable, ratings decrease by approx. 25%)

- Operating temperature:

# SPX/SPZ/SPV/SPY PowerSyntax®

#### Identification color codes



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