

PowerSyntax® SPX / SPZ / SPV / SPY

SPX, SPZ, SPY and SPV are the new PowerSyntax® series of single pole electrical connectors. PowerSyntax® 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

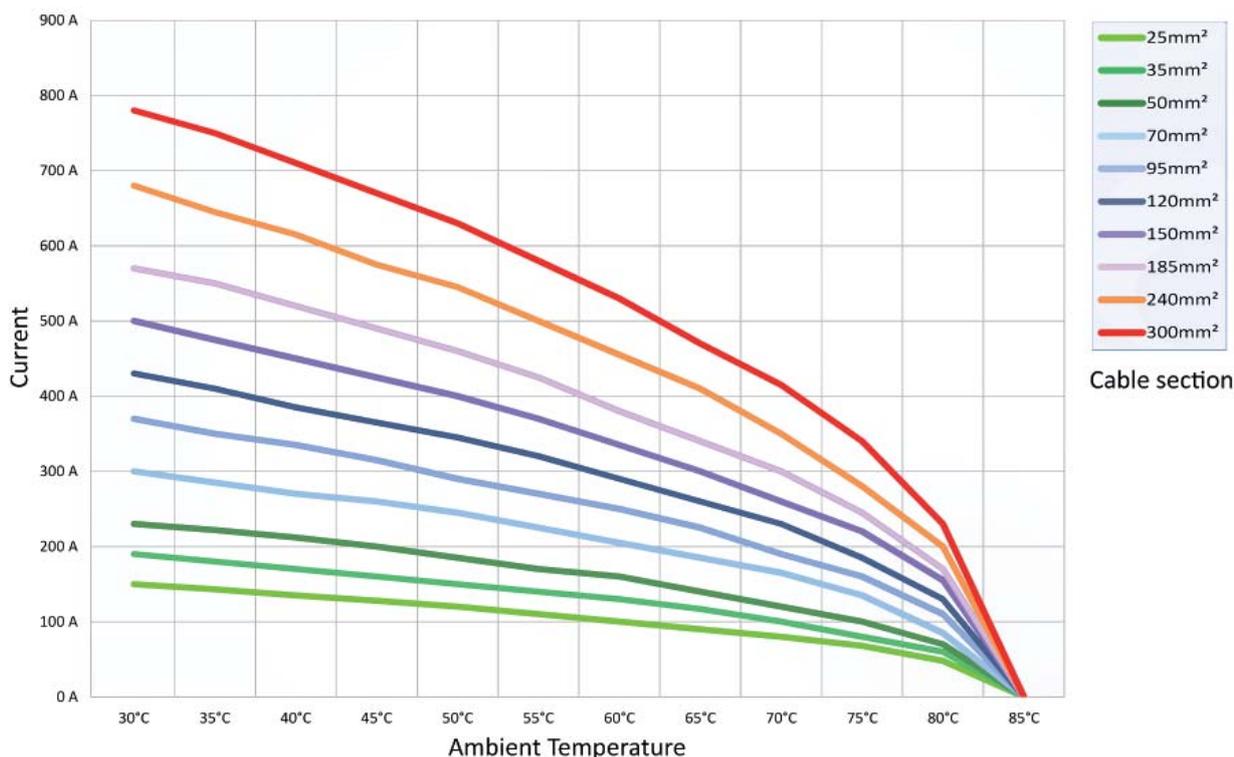
Technical data

- | | |
|--|---|
| • Number of contacts: | single pole |
| • Max continuous current rating with brass or bimetal contact: | 480amp |
| • Max continuous current rating with copper contact: | 750amp |
| • Test Voltage: | 4500 V AC |
| • Short Circuit Rating: | 35.5kA peak |
| • Insulation Resistance: | >5000 MOhm @500V |
| • IP rating when mated: | IP67 |
| • Protection against electric shock: | IP2X |
| • Contact resistance: | <0.1 mOhm |
| • Housing material: | high temperature thermoplastic |
| • Flammability: | UL94 V0 |
| • Coupling method: | bayonet lock with secondary locking pin |
| • Number of mating cycles: | >500 |
| • Operating temperature: | -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-V0 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 25mm² to 300 mm²
- 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

Rated current



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