



**syntax**  
**no compromise**

**NEW**

# **SSX**

**19 PIN  
LIGHTING  
CONNECTOR  
SERIES**

**UL COMPLIANT**

# SSX 19 PIN LIGHTING SERIES



The **SYNTAX® SSX** series, designed for professional lighting applications and perfectly compatible with standard Socapex 419 series, is extremely robust being made of thick wall construction machined aluminium alloy, with hard wearing black painted or anodized finish. The thermoplastic rubber insert enables the use of removable contacts, either crimp or solder version. The unit is completely IP67 watertight when mated.

Electrical safety and compliance is guaranteed by internal insulation of the shells, obtained through a safety insulating sleeve to prevent electric shock, as well as "first make last break" ground contacts. Grounding rings allow bussing of the ground contacts. Locking rings and backshells are designed for easy handling.

- Compliant  E 302043
- Ingress protection: IP67-IEC 529 norms
- Salt atmosphere resistance: 96 h IEC 68-21-11
- Operating temperature: -55°C to +125°C
- Shell material: machined aluminium alloy

- Finish: black painted or anodized
- Thermoplastic rubber interior
- Cable gland on inline versions: Metric M40 thread
- Cable gland on spider versions: Metric M50 thread
- Silver or gold plated removable contacts for crimping or soldering



## NEW VERSION WITH FINGER GRIP LOCKING RING



AVAILABLE COLORS ON REQUEST  
Black - Silver - Gold - Red



# SSX 19 PIN LIGHTING SERIES

SSX19MV



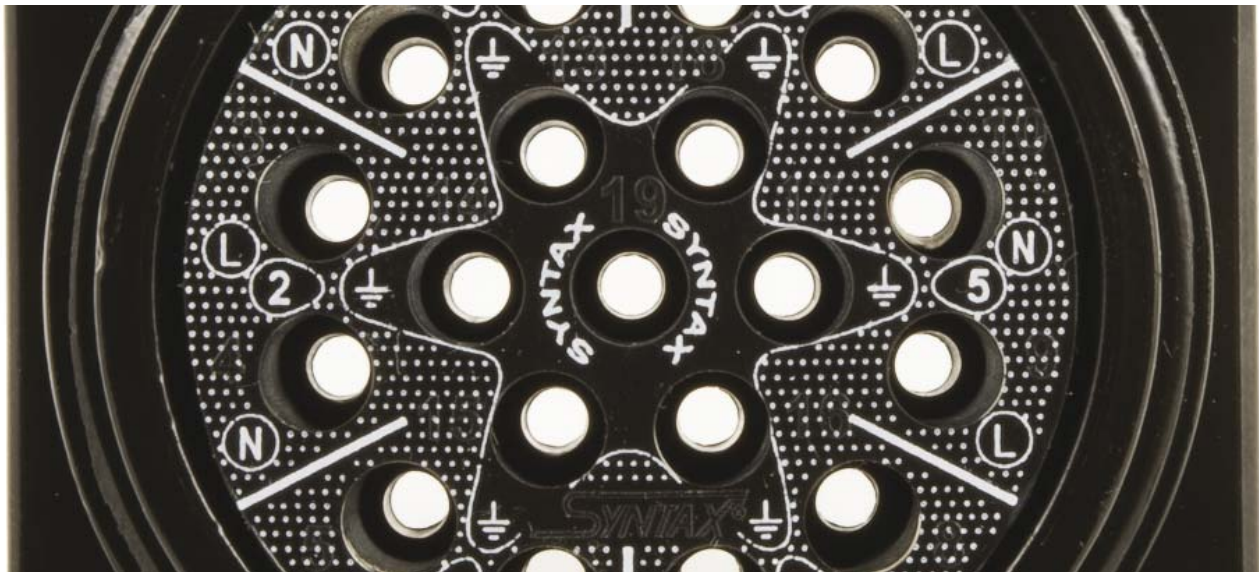
SSX19FV



SSX19MP



SSX19FP



## ANTI-ROTATION DESIGN



As of 2012, all SSX male and female connectors are equipped with a Syntax proprietary anti-rotation design to prevent the spinning of an insulating insert within its shell.

The anti-rotation system features 3 large keys on the insert, physically displaced by 120 degrees from one another and interlocked with as many keys on the metal housing. The large size of the keys ensures that the interior is positively locked, thus putting an end to a long standing industry problem.

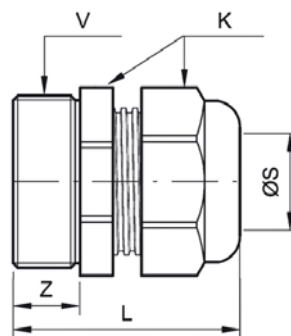
The Syntax anti-rotation device was designed in 2011 and has been implemented in the production of SSX connectors since 2012.

# SSX 19 PIN LIGHTING SERIES

## SYNTAX SSX 19 PIN CONNECTOR



## METRIC CABLE GLANDS FOR SSX SERIES



1 CONNECTOR AND 3 CABLE GLANDS OPTIONS  
ON THE SAME BACKSHELL

Cable Clamp - Metric (dimensions in mm)

| V (thread size) | Ø S (clamping range) | K  | Z  | L  |
|-----------------|----------------------|----|----|----|
| M 40 x 1.5      | 15 - 23              | 46 | 10 | 52 |
| M 40 x 1.5      | 19 - 28              | 46 | 10 | 52 |
| M 40 x 1.5      | 22 - 32              | 46 | 10 | 52 |

## CONTACTS

The male and female are machined high conductive alloy and are gold or silver plated.

### CRIMP

| Voltage rating AC | Voltage rating DC | Max current | Rated current | Potential drop | Dielectric Strength |                |
|-------------------|-------------------|-------------|---------------|----------------|---------------------|----------------|
|                   |                   |             |               |                | Test voltage        | Min. Flashover |
| 700 V             | 500 V             | 41 Amps     | 23 Amps       | 63 mV          | 2000 Vac RMS        | 2800 Vac RMS   |



GOLD Male



SILVER Male



GOLD Female



SILVER Female

### SOLDER

| Voltage rating AC | Voltage rating DC | Max current | Rated current | Potential drop | Dielectric Strength |                |
|-------------------|-------------------|-------------|---------------|----------------|---------------------|----------------|
|                   |                   |             |               |                | Test voltage        | Min. Flashover |
| 700 V             | 500 V             | 41 Amps     | 23 Amps       | 63 mV          | 2000 Vac RMS        | 2800 Vac RMS   |



GOLD Male



SILVER Male



GOLD Female



SILVER Female

## ADVANCED EARTH CONTACTS



As a standard, all SSX connectors are equipped with the 7 central contacts in an advanced position to obtain "first make last break" ground contact.

## COMMON GROUND



Part N.: SSXCMGRG (Gold) - SSXCMGRS (Silver)  
Two rings can be fitted to the central 7 contacts to create common grounding. (OPTIONAL)

# SSX 19 PIN FEATURES for ASSEMBLING and USAGE



## Anti-twisting grub screw



Mating is obtained by twisting female and male connectors clockwise. As the backshell is tightened counterclockwise, the anti-twisting grub screw prevents unintentional unscrewing of the corrector's backshell.



## Double backshell tightening

Once wiring is carried out, both circular knurling and machined housings for customized wrench jaws on the backshell's edge contribute to easier locking. Machined housings for SVKT-KSW customized wrench and marked knurl ridges for SVKT-KSTRAP strap wrench.



## Shell tightening hex

The standard version of the inline female features an external hex to tighten the connector's front and back shells once wiring operations have been carried out.



## Dust cap lacing

A dedicated housing for dust cap lacing has been machined on the connector's backshell. Dust cap is laced via a special high-resistance cable made up of seven stainless strands and covered by anti-scratch teflon black tubing, provided with standard dust cap.



# SSX 19 PIN - SPIDER



## WITH 6-HOLE GROMMET

**SYNTAX® SSX SPIDER 19** pin connector is an alternative version of the SSX 19 pin standard, designed for quick and easy managing of breakout applications.

The Syntax proprietary 6-way rubber grommet, fitted in the cable gland terminal, guarantees optimal cable retention and IP67 watertight seal for outdoor use.

For breakout assemblies with 6 cable leads, the usage of **SYNTAX® MAINFLEX** cable is recommended for full IP67 waterproof protection and best handling.



Moulded nut to insert/pull out the rubber grommet, using the removal tool



Pull out



# SSX 19 PIN Lighting Cables



**SP19M6FBL- 010 (1 mt ) - 015 (1,5 mt ) - 020 (2 mt )**



## SPIDER SPLITTER

Assembled list:

|           |              |                                      |
|-----------|--------------|--------------------------------------|
| n.1 P/N : | SSX19MVYGCMS | Syntax SSX19 male                    |
| n.6 P/N : | Y213-6X      | CEE17 16A 230V 3P female             |
| mt P/N :  | 7ZF0325      | Syntax Cable 3 x 2.5 mm <sup>2</sup> |

**SP6M19FBL- 010 (1 mt ) - 015 (1,5 mt ) - 020 (2 mt )**



## SPIDER SPLITTER

Assembled list:

|           |              |                                      |
|-----------|--------------|--------------------------------------|
| n.1 P/N : | SSX19FV-GCMS | Syntax SSX19 female                  |
| n.6 P/N : | Y013-6X      | CEE17 16A 230V 3P male               |
| mt P/N :  | 7ZF0325      | Syntax Cable 3 x 2.5 mm <sup>2</sup> |

**EC19P25-L...**



## EXTENSION CABLE

Assembled list:

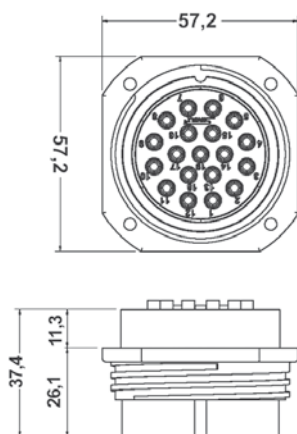
|           |               |                                     |
|-----------|---------------|-------------------------------------|
| 1 x P/N : | SSX19MVYGCP5N | Syntax SSX19 male                   |
| 1 x P/N : | SSX19FV-GCMS  | Syntax SSX19 female                 |
| mt P/N :  | 7ZF1925       | Syntax Cable 19x2.5 mm <sup>2</sup> |

|              |                           |
|--------------|---------------------------|
| EC19P25-L10  | 10 mt cable lenght        |
| EC19P25-L20  | 20 mt cable lenght        |
| EC19P25-L... | cable lenght upon request |

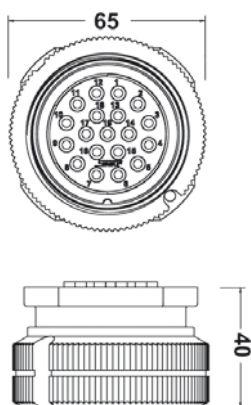
# SSX 19 PIN LIGHTING SERIES



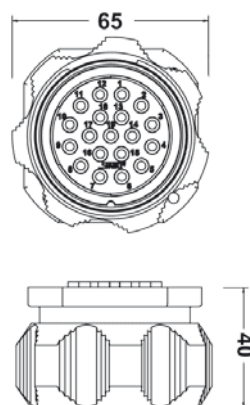
**PANEL FEMALE**



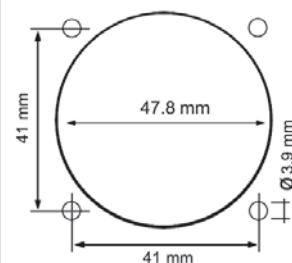
**PANEL MALE  
Heavy duty version**



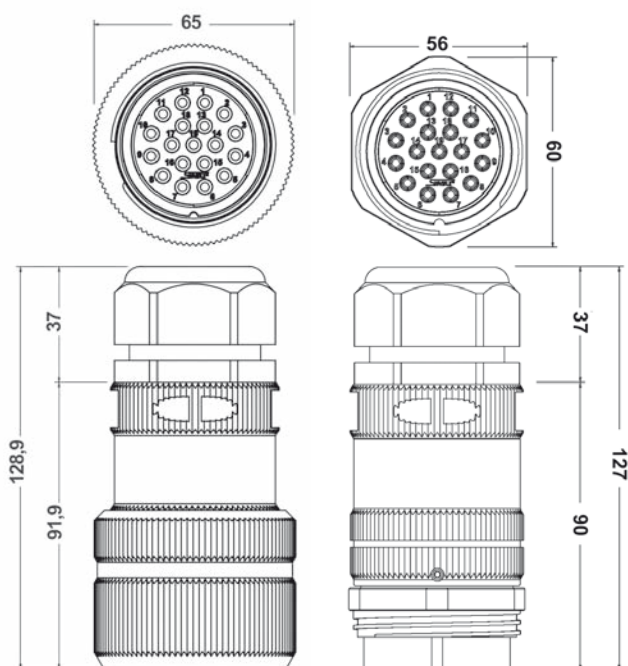
**PANEL MALE  
Finger grip version**



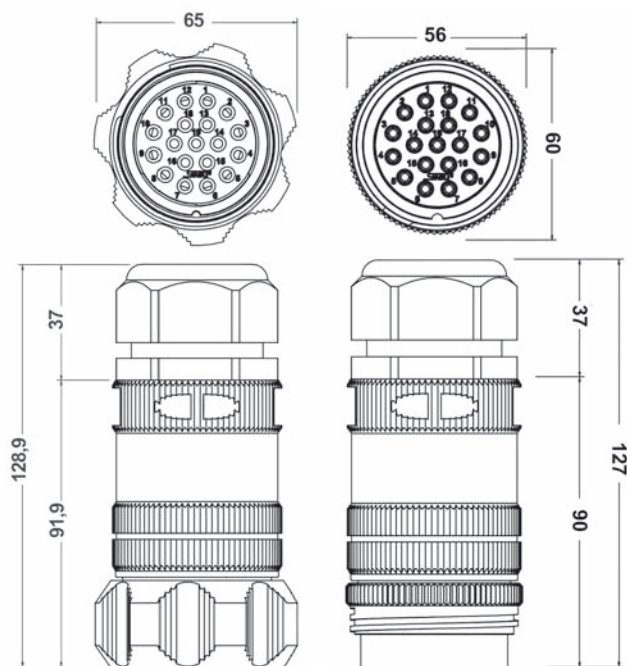
**PANEL CUT-OUT  
DIMENSIONS**



**INLINE MALE and FEMALE  
Heavy duty version**



**INLINE MALE (finger grip version)  
INLINE FEMALE (special version)**





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|                        |            |           |          |          |          |          |          |           |          |          |          |
|------------------------|------------|-----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|
| <b>EXAMPLE Part N.</b> | <b>SSX</b> | <b>19</b> | <b>F</b> | <b>V</b> | <b>D</b> | <b>G</b> | <b>S</b> | <b>MP</b> | <b>N</b> | <b>L</b> | <b>1</b> |
|------------------------|------------|-----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|

## NOTE



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