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# Power Cord with Locking System for Inlet Filters IL 13, IL 13 P, IL 19



- Locking system for standardized IEC C14/C20 inlet filter
- No accidental disconnection
- Rated current up to 10 A (C13 plug), up to 15 A (C13P plug), and up to 20 A (C19 plug)
- Fits any Schaffner IEC C14/C20 inlet filter
- Retrofit for any IEC C14/C20 inlet
- Various power line plugs for international usage

Approvals & Compliances

The locking system has a tensile force of typical 200N. It is recommended to use it with flange mount filters. For details refer to our Application Note "Using IEC Lock Power Cords with IEC Inlets and Filters"

Schaffner power cords with IEC lock guard against accidental disconnection of all electrical appliances with an IEC inlet. No exchange or modification of the IEC inlet or IEC inlet filter system is needed. Easy retrofit for all electronic equipments and devices.

## Technical Specifications

| | |
|---|---|
| **Maximum continuous operating voltage** | 250 VAC, 50/60 Hz |
| **Nominal operating voltage** | 230 VAC |
| **Rated currents** | 10 A for C13 plug, 15 A for C13P plug |
| **Operating frequency** | DC to 60 Hz |
| **High potential test voltage** | P–> PE 2000 VAC (1 min 50 Hz)<br>P –> N 2000 VAC (1 min 50 Hz) |
| **Temperature range (operation and storage)** | -25°C to +70°C |
| **Protection category** | IP 20 according IEC 60529 |
| **Flammability corresponding to** | Plugs: UL 94 V-2 or better<br>Cable: IEC 60332-1 Cat. F2 |
| **Connector (load side)** | IEC C13 according to IEC/EN 60320-2-2 with IEC Lock UL 498, CSA C22.2 no. 42 (for cold conditions) pin temp. 70°C, up to 15 A, Protection Class I |
| **Connector (line side) and cables** | Please refer to table on page 2 and 3 |

## Features and Benefits

- Power cord with locking system for IEC inlets
- Protection class I (IL 13, IL 13 P)
- Suitable for use with any C14 IEC inlet (IL 13, IL 13 P) and C20 IEC inlet (IL 19)
- Fits the complete Schaffner IEC inlet filter program with C14 IEC inlet and C20 IEC inlet (IL 19)
- Max. pin temperature 70°C

## Typical Applications

- Data centers
- Industrial equipment
- Medical devices
- In-vitro diagnostic devices
- Broadcasting stations
- Mobile applications

## Technical Specifications IL13 / IL13P

| | |
|---|---|
| **Maximum continuous operating voltage** | 250 VAC, 50/60 Hz |
| **Rated currents** | 10 A for C13 plug, 15 A for C13P plug |
| **High potential test voltage** | P–> PE 2000 VAC (1 min 50 Hz)<br>P –> N 2000 VAC (1 min 50 Hz) |
| **Protection category** | IP 20 according IEC 60529 |
| **Temperature range (operation and storage)** | -25°C to +70°C |
| **Connector (load side)** | IEC C13 according to IEC/EN 60320-2-2 with IEC Lock UL 498, CSA C22.2 no. 42 (for cold conditions) pin temp. 70°C, up to 15 A, Protection Class I |
| **Connector (line side) and cables** | Please refer to table on page 2 and 3 |
| **Flammability corresponding to** | Plugs: UL 94 V-2 or better; Cable: IEC 60332-1 Cat. F2 |

## Technical Specifications IL19

| | |
|---|---|
| **Maximum continuous operating voltage** | 250 VAC, 50/60 Hz |
| **Rated currents** | 16 A (IEC), 20 A (UL) |
| **Operating frequency** | 50 to 400 Hz |
| **High potential test voltage** | P–> PE 2000 VAC (1 min 50 Hz)<br>P –> N 2000 VAC (1 min 50 Hz) |
| **Protection category** | IP 20 according IEC 60529 |
| **Temperature range (operation and storage)** | -25°C to +70°C |
| **Connector (load side)** | IEC C19 according to IEC/EN 60320-2-2 with IEC lock, UL 498, CSA C22.2 no. 42 (for cold conditions) pin temp. 70°C, up to 20 A, Protection Class I |
| **Connector (line side) and cables** | please refer to table on page 4 |
| **Flammability corresponding to** | Plugs: UL 94 V-2 or better; Cable: IEC 60332-1 Cat. F2 |

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## Cable Selection Table IL13

| | |
|---|---|
| **IL13-C14-H05-3100-X*** | IEC cable assembly with locking system for IEC C14 inlet, EU version |
| **IL13-C14-SVT-3100-X*** | IEC cable assembly with locking system for IEC C14 inlet, US version |
| **IL13-CH1-H05-3100-X*** | IEC cable assembly with locking system for IEC C14 inlet, CH version |
| **IL13-EU1-H05-3100-X*** | IEC cable assembly with locking system for IEC C14 inlet, EU version |
| **IL13-JP1-HVCTF-3125-X*** | IEC cable assembly with locking system for IEC C14 inlet, JP version |
| **IL13-SE-H05-3100-X*** | IEC cable assembly with locking system for IEC C14 inlet, stripped ends |
| **IL13-UK1-H05-3100-X*** | IEC cable assembly with locking system for IEC C14 inlet, UK version |
| **IL13-US1-SVT-3100-X*** | IEC cable assembly with locking system for IEC C14 inlet, US version |
| **IL13-US2-SJT-3100-X*** | IEC cable assembly with locking system for IEC C14 inlet, US version, hospital grade |

To compile a complete part number, please replace the X* with the required length (please refer to table below for available length per cable type):
- X* options = 200, 300, 400, 500 or 1000 cm; 183, 275 or 366 cm (6, 9 or 12 feet)

## Available Combinations IL13

To compile a complete part number exchange the letters (IL13-yyy-zzz-aaaa-bbb-c) with the data from the table below.

| **Load side IL13** | | **Line side plug** | | **Cable type** | | **Cable core** | | **Rating** | **Cable length*** | | **Cable color** | | **Cert.** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **IL13** | | | **yyy** | | **zzz** | | **aaaa** | | | **bbb** | | **c** | |
| **IL13** | IEC C13<br>Female plug,<br>straight, lock | IEC C14, male, straight<br>Australian plug 3 pins<br>SEV1011, straight<br>CEE 7/VII, right angled<br>CEE 7/VII, straight<br>Italian Plug<br>Israel Plug<br>Korean Plug<br>South African Plug<br>Stripped Ends<br>BS1363, right angled fused 5A<br>BS1363, right angled fused 10A | C14<br>AU1<br>CH1<br>EU1<br>EU2<br>IT1<br>IL1<br>KC1<br>SA1<br>SE<br>UK1<br>UK2 | H05VV-F | H05 | 3x1.00mm² | 3100 | 250VAC<br>10A | 6 feet<br>200 cm<br>9 feet<br>300 cm<br>12 feet<br>400 cm<br>500 cm<br>1000 cm | 183<br>200<br>275<br>300<br>366<br>400<br>500<br>1000 | Black<br>Blue<br>Orange<br>Red<br>White | -<br>B<br>O<br>R<br>W | CB<br>KC<br>KEMA<br>SAA |
| **IL13** | IEC C13<br>Female plug,<br>straight, lock | IEC C14, male, straight<br>Japanese Plug JIS C8303 insulated sleeves<br>Stripped Ends | C14<br>JP1<br>SE | HVCTF | HVCTF | 3x1.25mm²<br>3x2.00mm² | 3125<br>3200 | 125VAC<br>12A<br>15A | 100 cm<br>200 cm<br>300 cm<br>400 cm<br>500 cm | 100<br>200<br>300<br>400<br>500 | Black<br>Blue<br>Orange<br>Red<br>White | -<br>B<br>O<br>R<br>W | PSE |
| **IL13** | IEC C13<br>Female plug,<br>straight, lock | IEC C14, male, straight<br>Stripped Ends<br>NEMA5-15, straight<br>NEMA5-15, straight, hospital grade | C14<br>SE<br>US1<br>US2 | SJT<br>SVT | SJT<br>SVT | AWG 18<br>AWG 16<br>AWG 14 | 3100<br>3130<br>3160 | 125VAC<br>10A<br>13A<br>15A | 6 feet<br>200 cm<br>9 feet<br>300 cm<br>12 feet<br>400 cm<br>500 cm<br>1000 cm | 183<br>200<br>275<br>300<br>366<br>400<br>500<br>1000 | Black<br>Blue<br>Orange<br>Red<br>White | -<br>B<br>O<br>R<br>W | UL<br>cUL |
| **IL13** | IEC C13<br>Female plug,<br>straight, lock | IEC C14, male, straight<br>Chinese plug<br>Stripped Ends | C14<br>CN1<br>SE | RVV | RVV | 3x1.00mm² | 3100 | 250VAC<br>10A | 200 cm | 200 | Black<br>Blue<br>Orange<br>Red<br>White | -<br>B<br>O<br>R<br>W | CCC |
| **IL13** | IEC C13<br>Female plug,<br>straight, lock | IEC C14, male, straight<br>Indian plug 3 Pin<br>Stripped Ends | C14<br>IN1<br>SE | BIS 694 1000V | BIS694 | 3x1.00mm² | 3100 | 250VAC<br>10A | 200 cm | 200 | Black<br>Blue<br>Orange<br>Red<br>White | -<br>B<br>O<br>R<br>W | CB |

*feet values are calculated to the matching length in cm

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## Cable Selection Table IL13P

| | |
|---|---|
| **IL13P-C14-H05-3100-X*** | IEC cable assembly with locking system + for IEC C14 inlet, EU version |
| **IL13P-CH1-H05-3100-X*** | IEC cable assembly with locking system + for IEC C14 inlet, CH version |
| **IL13P-EU1-H05-3100-X*** | IEC cable assembly with locking system + for IEC C14 inlet, EU version |
| **IL13P-JP1-HVCTF-3125-X*** | IEC cable assembly with locking system + for IEC C14 inlet, JP version |
| **IL13P-SE-H05-3100-X*** | IEC cable assembly with locking system + for IEC C14 inlet, stripped ends |
| **IL13P-UK1-H05-3100-X*** | IEC cable assembly with locking system + for IEC C14 inlet, UK version |
| **IL13P-US1-SJT-3160-X*** | IEC cable assembly with locking system + for IEC C14 inlet, US version |
| **IL13P-S-C14-UC-3100-X*** | IEC SLIMLINE cable assembly with locking system + for IEC C14 inlet |

To compile a complete part number, please replace the X* with the required length (please refer to table below for available length per cable type):
- X* options = 200, 300, 400, 500 or 1000 cm; 183, 275 or 366 cm (6, 9 or 12 feet)

## Available Combinations IL13P

To compile a complete part number exchange the letters (IL13P-yyy-zzz-aaaa-bbb-c) with the data from the table below.

| **Load side IL13P** | | **Line side plug** | | **Cable type** | | **Cable core** | | **Rating** | **Cable length*** | | **Cable color** | | **Cert.** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **IL13P** | | | **yyy** | | **zzz** | | **aaaa** | | | **bbb** | | **c** | |
| **IL13P** | IEC C13 + Female plug, straight, lock | IEC C14, male, straight<br>Australian plug 3 pins<br>SEV1011, straight<br>CEE 7/VII, right angled<br>CEE 7/VII, straight<br>Italian Plug<br>Israel Plug<br>Korean Plug<br>South African Plug<br>Stripped Ends<br>BS1363, right angled fused 5A<br>BS1363, right angled fused 10A | C14<br>AU1<br>CH1<br>EU1<br>EU2<br>IT1<br>IL1<br>KC1<br>SA1<br>SE<br>UK1<br>UK2 | H05VV-F | H05 | 3x1.00mm² | 3100 | 250VAC<br>10A | 6 feet<br>200 cm<br>9 feet<br>300 cm<br>12 feet<br>400 cm<br>500 cm<br>1000 cm | 183<br>200<br>275<br>300<br>366<br>400<br>500<br>1000 | Black<br>Blue<br>Orange<br>Red<br>White | -<br>B<br>O<br>R<br>W | CB<br>KC<br>KEMA<br>SAA |
| **IL13P** | IEC C13 + Female plug, straight, lock | IEC C14, male, straight<br>Japanese Plug JIS C8303 insulated sleeves<br>Stripped Ends | C14<br>JP1<br>SE | HVCTF | HVCTF | 3x1.25mm²<br>3x2.00mm² | 3125<br>3200 | 125VAC<br>12A<br>15A | 100 cm<br>200 cm<br>300 cm<br>400 cm<br>500 cm | 100<br>200<br>300<br>400<br>500 | Black<br>Blue<br>Orange<br>Red<br>White | -<br>B<br>O<br>R<br>W | PSE |
| **IL13P** | IEC C13 + Female plug, straight, lock | IEC C14, male, straight<br>Stripped Ends<br>NEMA5-15, straight<br>NEMA5-15, straight, hospital grade | C14<br>SE<br>US1<br>US2 | SJT<br>SVT | SJT<br>SVT | AWG 18<br>AWG 16<br>AWG 14 | 3100<br>3130<br>3160 | 125VAC<br>10A<br>13A<br>15A | 6 feet<br>200 cm<br>9 feet<br>300 cm<br>12 feet<br>400 cm<br>500 cm<br>1000 cm | 183<br>200<br>275<br>300<br>366<br>400<br>500<br>1000 | Black<br>Blue<br>Orange<br>Red<br>White | -<br>B<br>O<br>R<br>W | UL<br>cUL |
| **IL13P** | IEC C13 + Female plug, straight, lock | IEC C14, male, straight<br>Chinese plug<br>Stripped Ends | C14<br>CN1<br>SE | RVV | RVV | 3x1.00mm² | 3100 | 250VAC<br>10A | 200 cm | 200 | Black<br>Blue<br>Orange<br>Red<br>White | -<br>B<br>O<br>R<br>W | CCC |
| **IL13P** | IEC C13 + Female plug, straight, lock | IEC C14, male, straight<br>Indian plug 3 Pin<br>Stripped Ends | C14<br>IN1<br>SE | BIS 694<br>1000V | BIS694 | 3x1.00mm² | 3100 | 250VAC<br>10A | 200 cm | 200 | Black<br>Blue<br>Orange<br>Red<br>White | -<br>B<br>O<br>R<br>W | CB |
| **IL13P-S** | IEC C13 + DUAL Locking Female plug, straight, lock | IEC C14 dual locking, male, straight | C14 | H05VV-F | UC | 3x1.00mm² | 3100 | 250VAC<br>10A | 50 cm<br>100 cm<br>150 cm<br>200 cm<br>250 cm<br>300 cm | 50<br>100<br>150<br>200<br>250<br>300 | Black<br>Blue<br>Red<br>White | -<br>B<br>R<br>W | ENEC<br>cUL<br>SAA |

*feet values are calculated to the matching length in cm

## New DUAL Locking Version IL13P-S



Locking functionality on both ends of the cord

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## Cable Selection Table IL19

| | |
|---|---|
| **IL19-C20-H05-3150-X*** | IEC cable assembly with locking system for IEC C20 inlet, EU version |
| **IL19-C20-SJT-3160-X*** | IEC cable assembly with locking system for IEC C20 inlet, US version |
| **IL19-EU1-H05-3150-X*** | IEC cable assembly with locking system for IEC C20 inlet, EU version |
| **IL19-SE-H05-3150-X*** | IEC cable assembly with locking system for IEC C20 inlet, stripped ends |
| **IL19-UK1-H05-3150-X*** | IEC cable assembly with locking system for IEC C20 inlet, UK version |
| **IL19-US1-SJT-3160-X*** | IEC cable assembly with locking system for IEC C20 inlet, US version |

To compile a complete part number, please replace the X* with the required length (please refer to table below for available length per cable type):
- X* options = 200, 300, 400, 500 or 1000 cm; 183, 275 or 366 cm (6, 9 or 12 feet)

## Available Combinations IL19

To compile a complete part number exchange the letters (IL19-yyy-zzz-aaaa-bbb-c) with the data from the table below.

| **Load side IL19** | | **Line side plug** | | **Cable type** | | **Cable core** | | **Rating*** | **Cable length**** | | **Cable color** | | **Cert.** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **IL19** | | | **yyy** | | **zzz** | | **aaaa** | | | **bbb** | | **c** | |
| **IL19** | IEC C19<br>Female plug,<br>straight, lock | IEC C20, male, straight<br>Australian plug 3 pins<br>SEV1011, straight<br>CEE 7/VII, right angled or straight<br>Italian Plug<br>South Africa plug<br>Stripped Ends<br>BS1363, right angled fused 13A | C20<br>AU1<br>CH1<br>EU1<br>IT1<br>SA1<br>SE<br>UK1 | H05VV-F | H05 | 3x1.50mm² | 3150 | 16A<br>15A<br>16A<br>16A<br>16A<br>16A<br>16A<br>13A | 6 feet<br>200 cm<br>9 feet<br>300 cm<br>12 feet<br>400 cm<br>500 cm<br>1000 cm | 183<br>200<br>275<br>300<br>366<br>400<br>500<br>1000 | Black<br>Blue<br>Orange<br>Red<br>White | -<br>B<br>O<br>R<br>W | CB<br>KEMA<br>SAA |
| **IL19** | IEC C19<br>Female plug,<br>straight, lock | IEC C20, male, straight<br>Japanese Plug JIS C8303 insulated sleeves<br>Stripped Ends | C20<br>JP1<br>SE | HVCTF | HVCTF | 3x2.00mm² | 3200 | 15A | 100 cm<br>200 cm<br>300 cm<br>400 cm<br>500 cm | 100<br>200<br>300<br>400<br>500 | Black<br>Blue<br>Orange<br>Red<br>White | -<br>B<br>O<br>R<br>W | PSE |
| **IL19** | IEC C19<br>Female plug,<br>straight, lock | IEC C20, male, straight<br>Stripped Ends<br>NEMA5-15, straight<br>Nema 5-20P | C20<br>SE<br>US1<br>US4 | SJT<br>SVT | SJT<br>SVT | AWG14<br>AWG12 | 3160<br>3205 | 125V<br>15A<br>20A | 6 feet<br>200 cm<br>9 feet<br>300 cm<br>12 feet<br>400 cm<br>500 cm<br>1000 cm | 183<br>200<br>275<br>300<br>366<br>400<br>500<br>1000 | Black<br>Blue<br>Orange<br>Red<br>White | -<br>B<br>O<br>R<br>W | UL<br>cUL |
| **IL19** | IEC C19<br>Female plug,<br>straight, lock | Chinese plug | CN1 | RVVF | RVVF | 3x1.50mm² | 3150 | 16A | 200 cm | 200 | black | - | CCC |

* if not seperately mentioned 250VAC is rated voltage

** feet values are calculated to the matching length in cm

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