

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) 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 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) 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) 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

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 Female plug, straight, lock	IEC C14, male, straight Australian plug 3 pins SEV1011, straight CEE 7/II, right angled CEE 7/III, straight Italian Plug Israel Plug Korean Plug South African Plug Stripped Ends BS1363, right angled fused 5A BS1363, right angled fused 10A	C14	H05VV-F	H05	3x1.00mm ²	3100	250VAC 10A	6 feet	183	Black Blue Orange Red White	- B O R W	CB KC KEMA SAA											
			200 cm						200															
			9 feet						275															
			300 cm						300															
			12 feet						366															
			400 cm						400															
			500 cm						500															
			1000 cm						1000															
			IL13						IEC C13 Female plug, straight, lock	IEC C14, male, straight Japanese Plug JIS C8303 insulated sleeves Stripped Ends				C14	HVCTF	HVCTF	3x1.25mm ² 3x2.00mm ²	3125 3200	125VAC	100 cm	100	Black Blue Orange Red White	- B O R W	PSE
														12A					200 cm	200				
														15A					300 cm	300				
																			400 cm	400				
	500 cm	500																						
IL13	IEC C13 Female plug, straight, lock	IEC C14, male, straight Stripped Ends NEMA5-15, straight NEMA5-15, straight, hospital grade	C14	SJT SVT	SJT SVT	AWG 18 AWG 16 AWG 14	3100 3130 3160	125VAC	6 feet	183	Black Blue Orange Red White	- B O R W	UL cUL											
			10A					200 cm	200															
			13A					9 feet	275															
			15A					300 cm	300															
								12 feet	366															
								400 cm	400															
IL13	IEC C13 Female plug, straight, lock	IEC C14, male, straight Chinese plug Stripped Ends	C14	RVV	RVV	3x1.00mm ²	3100	250VAC	200 cm	200	Black Blue Orange Red White	- B O R W	CCC											
			10A																					
			IL13					IEC C13 Female plug, straight, lock	IEC C14, male, straight Indian plug 3 Pin Stripped Ends	C14				BIS 694 1000V	BIS694	3x1.00mm ²	3100	250VAC	200 cm	200	Black Blue Orange Red White	- B O R W	CB	
										10A														

*feet values are calculated to the matching length in cm

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	IL13P	yyy	zzz	aaaa		bbb	c																						
IL13P	IEC C13 + Female plug, straight, lock	IEC C14, male, straight	C14	H05VV-F	H05	3x1.00mm ²	3100	250VAC	10A	6 feet 200 cm 9 feet 275 cm 300 cm 12 feet 366 cm 400 cm 500 cm 1000 cm	183 200 275 300 366 400 500 1000	Black Blue Orange Red White	-	B O R W	CB KC KEMA SAA														
		Australian plug 3 pins	AU1																										
		SEV1011, straight	CH1																										
		CEE 7/VII, right angled	EU1																										
		CEE 7/VII, straight	EU2																										
		Italian Plug	IT1																										
		Israel Plug	IL1																										
		Korean Plug	KC1																										
		South African Plug	SA1																										
		Stripped Ends	SE																										
		BS1363, right angled fused 5A	UK1																										
		BS1363, right angled fused 10A	UK2																										
IL13P	IEC C13 + Female plug, straight, lock	IEC C14, male, straight	C14	HVCTF	HVCTF	3x1.25mm ² 3x2.00mm ²	3125 3200	125VAC	12A 15A	100 cm 200 cm 300 cm 400 cm 500 cm	100 200 300 400 500	Black Blue Orange Red White	-	B O R W	PSE														
		Japanese Plug JIS C8303 insulated sleeves	JP1																										
		Stripped Ends	SE																										
		IL13P	IEC C13 + Female plug, straight, lock													IEC C14, male, straight	C14	SJT SVT	SJT SVT	AWG 18 AWG 16 AWG 14	3100 3130 3160	125VAC	10A 13A 15A	6 feet 200 cm 9 feet 275 cm 300 cm 12 feet 366 cm 400 cm 500 cm 1000 cm	183 200 275 300 366 400 500 1000	Black Blue Orange Red White	-	B O R W	UL cUL
																Stripped Ends	SE												
		NEMA5-15, straight	US1																										
		NEMA5-15, straight, hospital grade	US2																										
IL13P	IEC C13 + Female plug, straight, lock	IEC C14, male, straight	C14	RVV	RVV	3x1.00mm ²	3100	250VAC	10A	200 cm	200	Black Blue Orange Red White	-	B O R W	CCC														
		Chinese plug	CN1																										
		Stripped Ends	SE																										
IL13P	IEC C13 + Female plug, straight, lock	IEC C14, male, straight	C14	BIS 694 1000V	BIS694	3x1.00mm ²	3100	250VAC	10A	200 cm	200	Black Blue Orange Red White	-	B O R W	CB														
		Indian plug 3 Pin	IN1																										
		Stripped Ends	SE																										
IL13P-S	IEC C13 + DUAL Locking Female plug, straight, lock	IEC C14 dual locking, male, straight	C14	H05VV-F	UC	3x1.00mm ²	3100	250VAC	10A	50 cm 100 cm 150 cm 200 cm 250 cm 300 cm	50 100 150 200 250 300	Black Blue Red White	-	B R W	ENEC cUL 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

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 Female plug, straight, lock	IEC C20, male, straight	C20	H05VV-F	H05	3x1.50mm ²	3150	16A	6 feet	183	Black Blue Orange Red White	- B O R W	CB KEMA SAA
		Australian plug 3 pins	AU1					15A	200 cm	200			
		SEV1011, straight	CH1					16A	9 feet	275			
		CEE 7/VII, right angled or straight	EU1					16A	300 cm	300			
		Italian Plug	IT1					16A	12 feet	366			
		South Africa plug	SA1					16A	400 cm	400			
		Stripped Ends	SE					16A	500 cm	500			
		BS1363, right angled fused 13A	UK1					13A	1000 cm	1000			
IL19	IEC C19 Female plug, straight, lock	IEC C20, male, straight	C20	HVCTF	HVCTF	3x2.00mm ²	3200	15A	100 cm	100	Black Blue Orange Red White	- B O R W	PSE
		Japanese Plug JIS C8303 insulated sleeves	JP1					200 cm	200				
		Stripped Ends	SE					300 cm	300				
								400 cm	400				
								500 cm	500				
IL19	IEC C19 Female plug, straight, lock	IEC C20, male, straight	C20	SJT	SJT	AWG14	3160	125V	6 feet	183	Black Blue Orange Red White	- B O R W	UL cUL
		Stripped Ends	SE					200 cm	200				
		NEMA5-15, straight	US1					15A	9 feet	275			
		Nema 5-20P	US4					20A	300 cm	300			
								12 feet	366				
								400 cm	400				
		500 cm	500										
		1000 cm	1000										
IL19	IEC C19 Female plug, straight, lock	Chinese plug	CN1	RWF	RWF	3x1.50mm ²	3150	16A	200 cm	200	black	-	CCC

* if not separately mentioned 250VAC is rated voltage

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

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