



SL LED basic in the tri-light setup – the components:
1x SL 24 basic, 2x SL 12 basic,
power supply DIM box,
mains cable, 3x connection
cable, 4x fastening kit Bracket

See technical data
page 13-10

Workstation lighting

The right lighting, adapted to the activity at the workstation, is a basic prerequisite for high efficiency and processing quality. Optimal lighting prevents fatigue, improves concentration, and performance, and reduces the number of errors. From an ergonomic point of view, lighting is another central environmental factor that must be taken into consideration in addition to climate, noise, mechanical vibrations, and hazardous substances.

Important aspects for planning workstation lighting include:

- ▶ Avoiding strong contrasts
- ▶ Avoiding glare and reflection

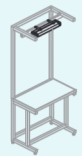
























DIN EN 12464 or the table below contain the required mid-range lighting strengths.

2



The right LED system lamp for every task

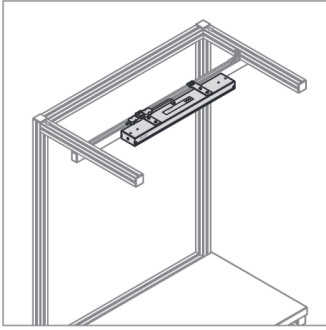
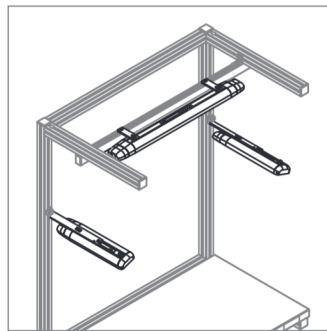
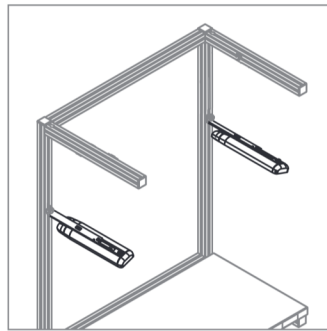
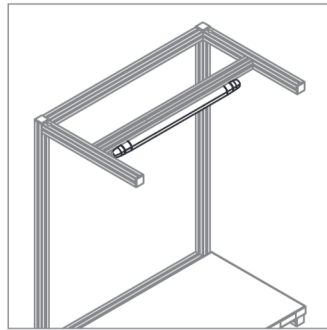
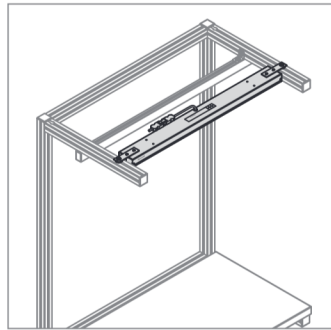
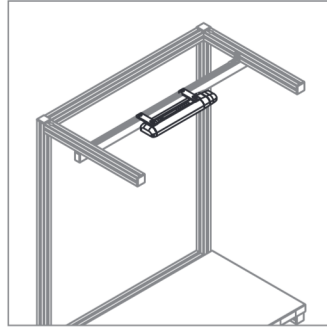
Sample calculation for work top lighting

Rexroth SL 12 economic (nominal lighting strength) 700 lux*
 + 300 lux ambient light
 = 1000 lux work top lighting

Tasks	Required lighting strength (lux)	    				
		SL 12 economic	SL 12 economic wide	SL 12 basic Duo	SL 24 basic	SL 24 basic + SL 12 basic Duo (tri-light)
Rough and medium machine and assembly tasks such as turning, milling and planing	300	 *	 *	 *	 *	 *
Fine machine tasks with permissible deviations	500	 *	 *	 *	 *	 *
Fine assembly tasks, e.g., telephones, winding medium-sized coils, marking, inspection and measuring stations	750	 *	 *	 *	 *	 *
Very fine assembly, e.g., measuring instruments, assembly of tools, gages, and equipment, precision mechanics and micromechanics	1000	 *		 *	 *	 *
Assembly, inspection and adjustment of extremely small parts	1500					 *

* lamp–table top distance = 1.25 m

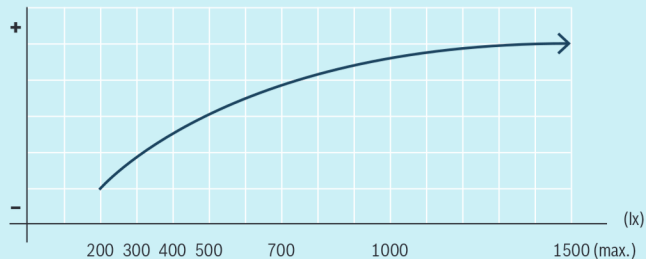
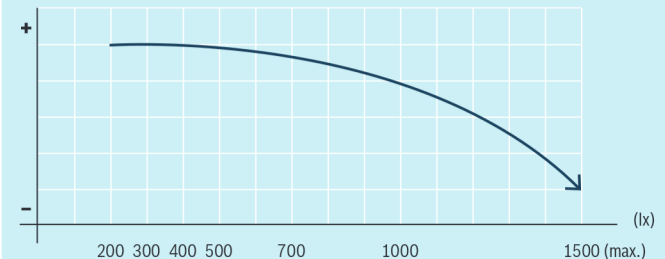
 System lamp sufficient for task
 System lamp + ambient light (300 lux) sufficient for task

System lamp economic**System lamp basic**

Rexroth's system lamp range provides glare and flicker-free light of the highest quality. For high-quality and even workstation lighting, the lamps can be operated individually or in combination with one another depending on the task. The lamps can be switched on and off when plugged into a socket with a power switch. Several lamps can be connected in series using the connection cables.

LED lighting on a new level

The design of the new generation of LED lamps sets itself apart by its compact size. The use of LEDs for lighting makes possible low energy consumption, long life and maintenance-free lamps. With the rotary control of the DIM box, the illuminance of the SL LED basic can be dimmed infinitely and the lamp can be switched on and off.

Increased efficiency with Rexroth system lamps**Reduction of errors with Rexroth system lamps**



System lamp LED economic

- ▶ Glare-free light thanks to matte wide optics with 60° beam angle
- ▶ Optimum light output with low energy consumption: ~140 lm/W
- ▶ Color temperature: 5000 K
- ▶ With short flexible connection cable (~16 cm) and GST plug
- ▶ Compact dimensions and low weight
- ▶ Particularly suitable for workstations intended for packing operations and heavy assembly work
- ▶ Mounting on profile rail or bottom side of profile rail (workstations with W ≠ 1000 mm) as well as SL12 wide to a strut extension (workstations with W = 1000 mm) (page 2-21)

IP rating: IP 20 (DIN EN IEC 60529)

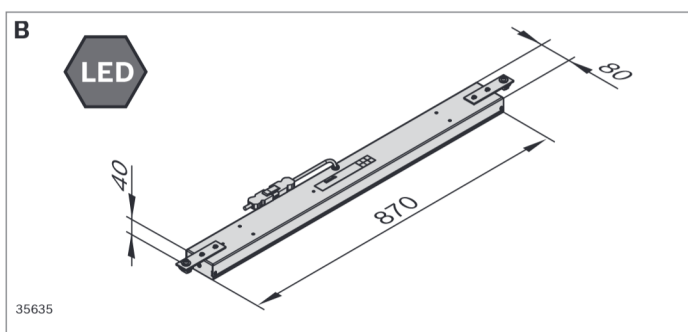
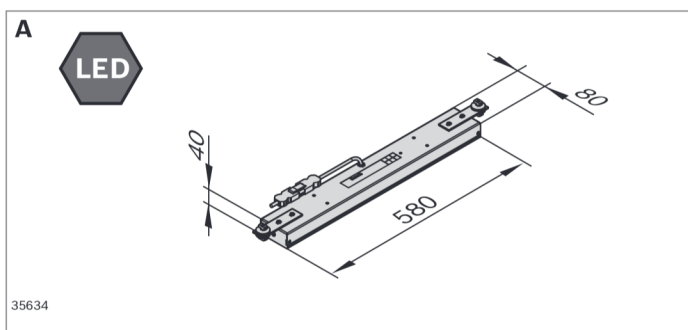
Material: Housing sheet steel, painted

Scope of delivery: Incl fastening material (10 mm slot)

Required accessories: Mains cable or connection cable (page 2-39)

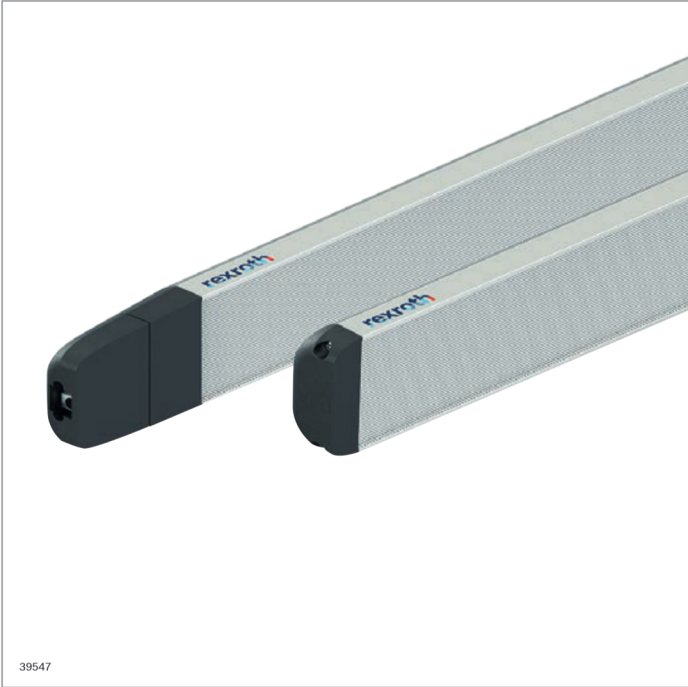
Recommended accessories: POWER H-distributor (230 V) or T-plug (page 2-41)

2



		Fluorescent tubes	Service life (h)	Voltage (V)/ Frequency (Hz)	Weight (kg)	No.
A SL 12 LED economic	EU	LED/11.5 ± 0.5 W	50 000	220-240 V/50 Hz; 60 Hz	1.75	3 842 559 392
	USA/CAN*	LED/11.5 ± 0.5 W	50 000	120-277 V/50 Hz; 60 Hz	1.75	3 842 559 394
B System SL 12 LED economic wide	EU	LED/11.5 ± 0.5 W	50 000	220-240 V/50 Hz; 60 Hz	2.65	3 842 559 393
	USA/CAN*	LED/11.5 ± 0.5 W	50 000	120-277 V/50 Hz; 60 Hz	2.65	3 842 559 395

*UL and CSA test marks

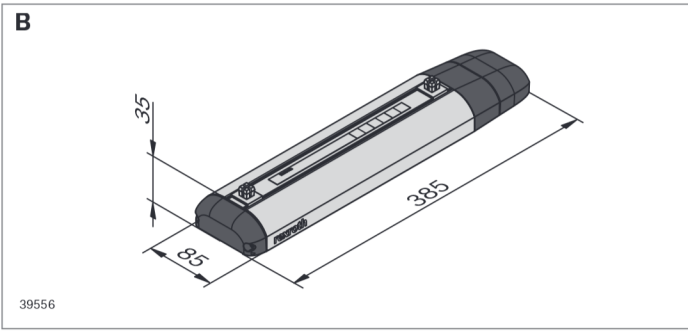
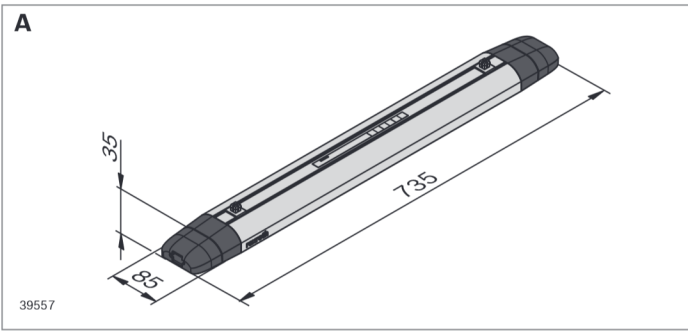


System lamp LED basic



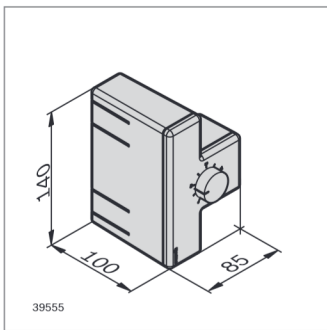
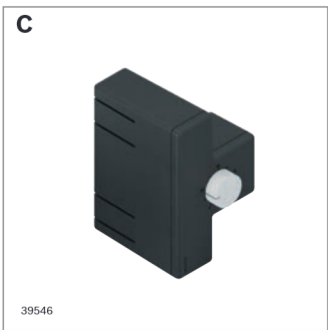
- ▶ SL 24 basic: Easy and fast fastening in slot with mounting base; through-wired with two outputs for connecting further lamps
- ▶ SL 12 basic: Easy and fast fastening in slot with mounting base; with one output for connecting another lamp
- ▶ Suitable for use at ESD workstations when using fastening kit Plate (D) or Bracket (E)
- ▶ Color temperature: 5000 K

IP rating: IP 20 (IEC 60529)
Material: Aluminum housing; anodized; mounting base, 10 mm slot (3842552247)
Scope of delivery: Incl fastening material (10 mm slot)
Required accessories: Power supply DIM box (C), mains cable, connection cable (F)



Fluorescent tubes			Service life (h)	Voltage (V)/ Frequency (Hz)	Weight (kg)	No.
A	SL 24 LED basic	EU/USA/CAN* LED/24 W	60 000	<60 V (DC SELV)	1.0	3 842 563 245
B	SL 12 LED basic	EU/USA/CAN* LED/12 W	60 000	<60 V (DC SELV)	0.6	3 842 563 246

*UL and CSA test marks

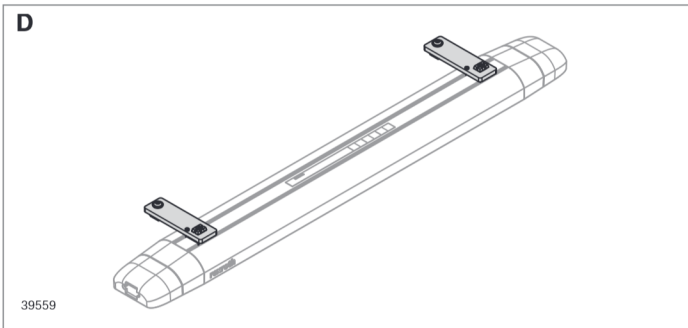


Power supply DIM box

- ▶ For power supply of up to two SL 24 basic or four SL 12 basic system lamps (combinations of SL 12 basic and SL 24 basic possible)
- ▶ Stepless dimming (0 – 100%) via ergonomic rotary control
- ▶ Mains connection via GST (with mains cable, connection cable, connecting plug (page 2-41)
- ▶ DC lamp connection via GST mini (GST mini connection cable)
- ▶ Simple and versatile fastening options in slot thanks to mounting base (included)
- ▶ Can be connected directly to the socket strip via the GST connecting plug (3842517055)

		Service life (h)	Voltage (V)/Frequency (Hz)	Weight (kg)	No.
C	Power supply DIM box	EU/USA/CAN*	45 000	110-240 V; 50 – 60 Hz	0.4
					3 842 563 247

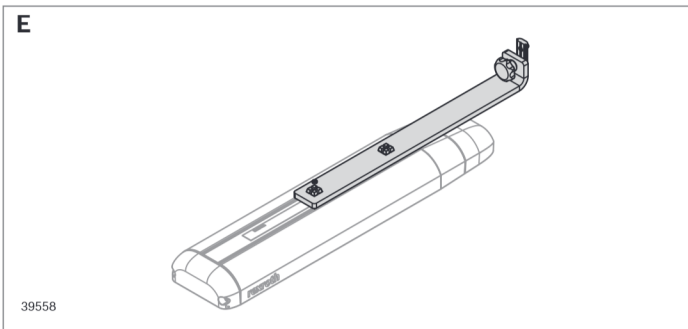
* UL and CSA test marks from CW 25/22



Fastening kit Plate

- ▶ For installation on hanger (page 2-21)

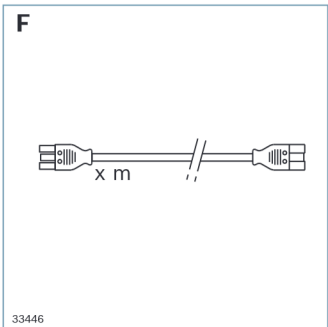
	No.
D Fastening kit Plate	3 842 563 254



Fastening kit Bracket

- ▶ For installation on a strut extension; swivel-mounted

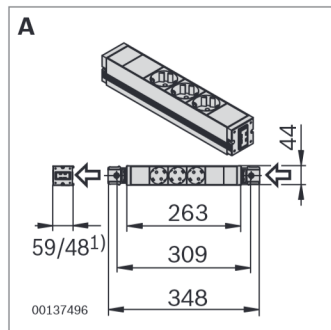
	No.
E Fastening kit Bracket	3 842 563 276



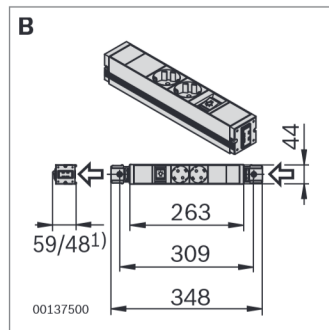
Connection cable

- ▶ For connection of power supply DIM box with system lamp basic
- ▶ For connection of system lamp basic with additional system lamp basic

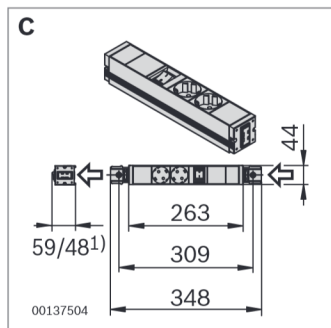
		Length (m)	No.
F	Connection cable EU/USA/CAN GST mini	1	3 842 563 248
		2	3 842 563 249
		3	3 842 563 250



¹⁾ Special country-specific dimensions

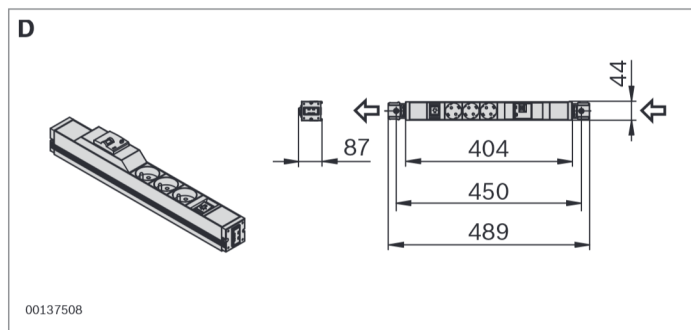


¹⁾ Special country-specific dimensions



¹⁾ Special country-specific dimensions

IP rating:
IP 20 (DIN EN IEC 60529)



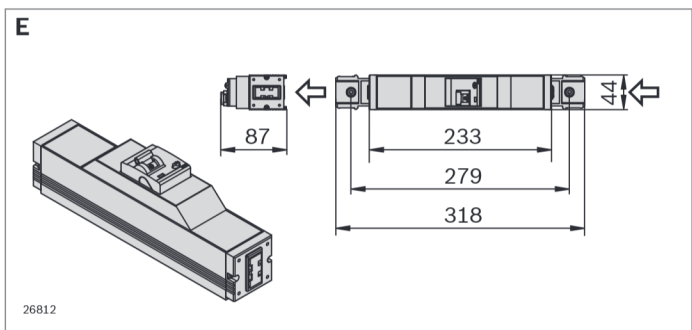
Socket strip


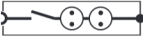




- ▶ With two, three or four grounded plug sockets
- ▶ Socket insert for space-saving layout with angled plugs
- ▶ With GST outlet socket including cover cap for looping through the electrical current
- ▶ When connecting several products in series, observe the maximum permissible current. See the table below
- ▶ Intended for permanent installation
- ▶ Versions with switchable input and/or output and RCD safety switch
- ▶ RCD module: $I_{\Delta n} = 30 \text{ mA}$

Material: Aluminum, anodized; insert: Plastic, black

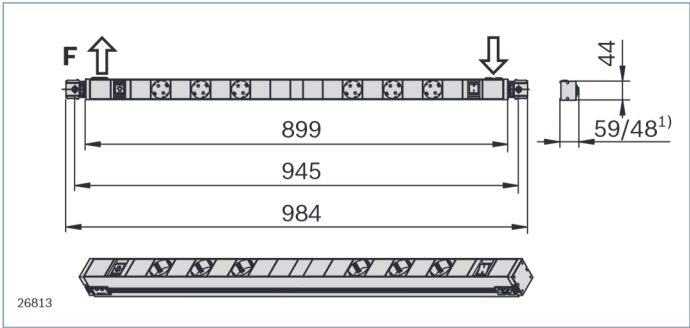
Scope of delivery: Includes insulating fastening material (10 mm slot)

Required accessories: Mains/connection cable (page 2-39 f.)



		Current (A)/Voltage (V)	L x W x H (mm)	No.
A Socket strip 	D	Max. 16 A/230 V	263 x 44 x 48	3 842 539 842
	F	Max. 16 A/230 V	263 x 44 x 48	3 842 539 852
	GB	Max. 13 A/230 V	263 x 44 x 48	3 842 539 862
	USA/CAN*	Max. 15 A/125 V	263 x 44 x 59	3 842 539 880
B Socket strip, switchable output 	D	Max. 16 A/230 V	263 x 44 x 48	3 842 539 844
	F	Max. 16 A/230 V	263 x 44 x 48	3 842 539 854
	GB	Max. 13 A/230 V	263 x 44 x 48	3 842 539 864
	CH	Max. 10 A/230 V	263 x 44 x 59	3 842 539 872
	USA/CAN*	Max. 15 A/125 V	263 x 44 x 59	3 842 539 882
C Socket strip, switchable input 	D	Max. 16 A/230 V	263 x 44 x 48	3 842 539 846
	F	Max. 16 A/230 V	263 x 44 x 48	3 842 539 856
	GB	Max. 13 A/230 V	263 x 44 x 48	3 842 539 866
D Socket strip, switchable output, RCD 	D	Max. 16 A/230 V	404 x 44 x 87	3 842 542 060
	F	Max. 16 A/230 V	404 x 44 x 87	3 842 539 858
Socket strip, RCD 	D	Max. 16 A/230 V	404 x 44 x 87	3 842 558 636
E RCD residual-current device 	EU	Max. 16 A/230 V	233 x 44 x 87	3 842 552 214

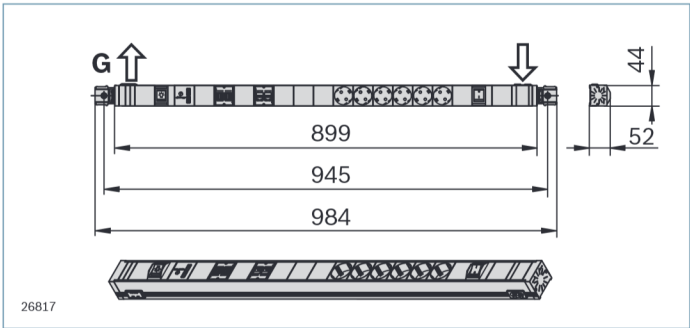
*UL and CSA test marks



Power strip

- Power strip with six grounded plug sockets for attachment to a strut extension (workstations with B = 990 mm)

¹⁾ Special country-specific dimensions



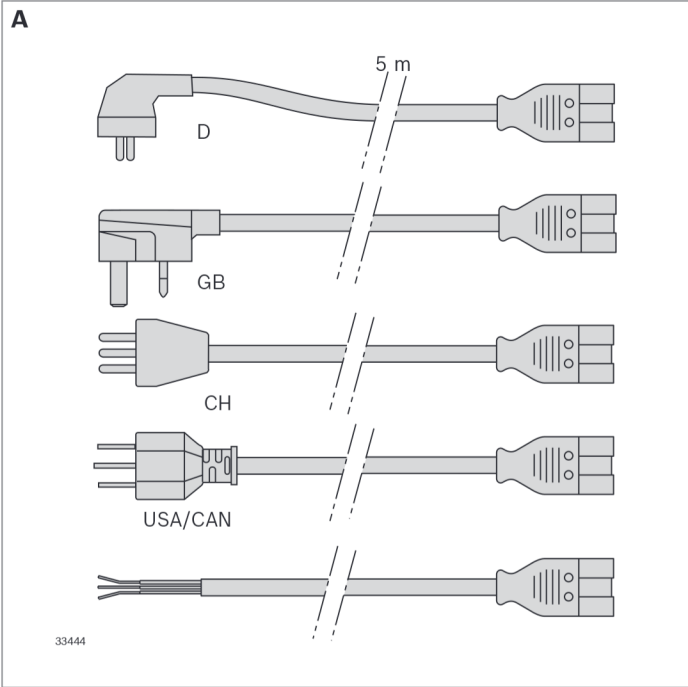
Network strip

- Network strip with six grounded plug sockets and USB 3.0 socket, LAN (RJ45) port and USB charger for attachment to a strut extension (workstations with B = 990 mm)

IP rating: IP 20 (DIN EN IEC 60529)
Material: Aluminum, anodized; insert: Plastic, black
Scope of delivery: Includes insulating fastening material (10 mm slot)
Required accessories: Mains/connection cable (page 2-39 f.)

		Current (A)/Voltage (V)	L x W x H (mm)	No.
F Power strip, switchable input, Switchable output 	D	Max. 16 A/230 V	899 x 44 x 48	3 842 539 850
	F	Max. 16 A/230 V	899 x 44 x 48	3 842 539 860
	GB	Max. 13 A/230 V	899 x 44 x 48	3 842 539 868
	CH	Max. 10 A/230 V	899 x 44 x 59	3 842 539 876
	USA/CAN*	Max. 15 A/125 V	899 x 44 x 59	3 842 539 884
G Network strip, switchable input, Switchable output 	D	Max. 16 A/230 V	899 x 52 x 52	3 842 552 212

*UL and CSA test marks



Mains and connection cable , connections

Mains cable (A)

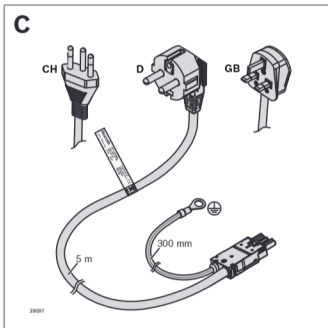
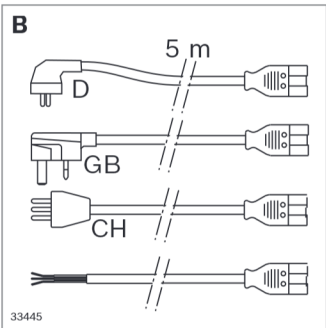
- Ready-to-use mains cable: In various country versions; for simple, secure plug-and-play installation with no electrician needed
- For connecting system lamps, socket strips or power strips
- Open-ended mains cable: For self-assembly

Accessories: GST plug
Material: Connection line EU: PVC (H05VV-F); black
Connection line USA/CAN: PVC (SJTOW); black

HD mains cable (B)

- Use in moderate industrial environments
- For connecting system lamps, socket strips or power strips
- Open-ended mains cable: For self-assembly

Accessories: GST plug
Material: Connection line PUR (H07BQ-F); orange



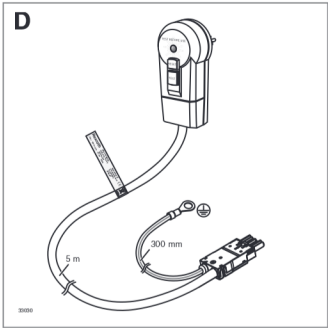
Mains cable HD with PE connection (C)

- Use in moderate industrial environments
- Accessories: GST plug

Connection cable material: PUR (H07BQ-F), orange

	Version	Length (m)	No.
A Mains cable	D/F	5	3 842 517 045
	GB	5	3 842 522 585
	CH	5	3 842 523 910
	USA/CAN*	5	3 842 537 323
	Open end	5	3 842 517 201
B HD mains cable	D/F	5	3 842 554 183
	GB	5	3 842 555 603
	CH	5	3 842 555 605
	Open end	5	3 842 555 607
C Mains cable HD with PE connection	D/F	5	3 842 564 084
	CH	5	3 842 564 085
	GB	5	3 842 564 086

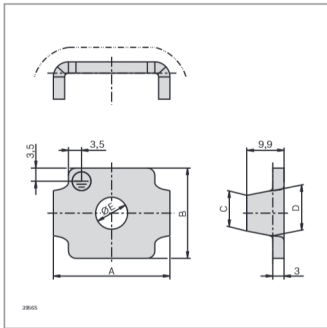
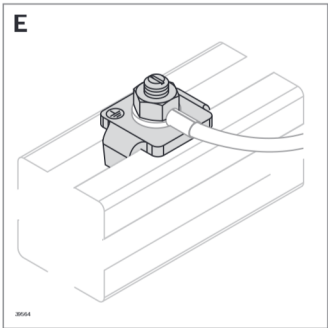
*UL and CSA test marks



Mains cable with RCD module and PE connection (D)

- For secure connection of workstations directly from the socket
- RCD module: IΔn = 30 mA
- IP rating: IP 20 (DIN EN IEC 60529)

Connection cable material: PUR (H07BQ-F); orange

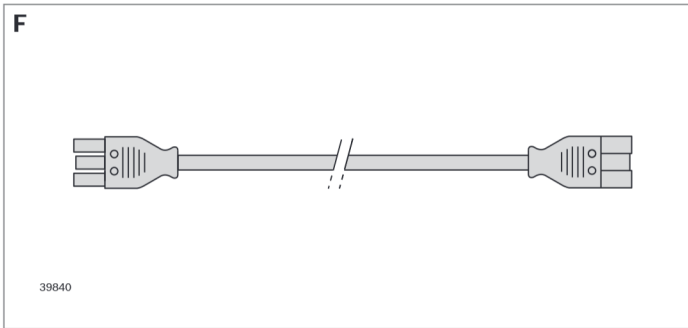


PE conductor connection 8 mm and 10 mm slot (E)

- PE conductor connection set for profile structures for the secure connection of a PE connection in Rexroth profile slots

Scope of delivery: Set incl. fastening material

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	No.
28	21	7.5	9.3	6.5	3 842 564 106
31	24	9.5	12	8.5	3 842 564 107



Connection cable (F)

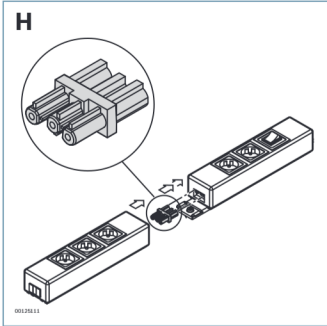
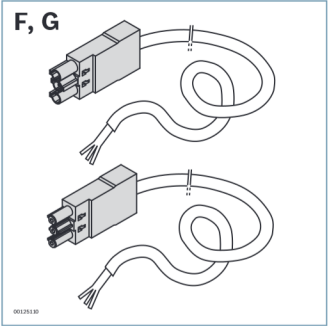
- For cable connections between system lamps economic, socket strips or power strips
- Ready-made in various country versions and lengths
- For simple and secure plug-and-play installation

Color: Black

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		Version	Length (m)	No.
D	Mains cable with RCD module and PE connection	D/F	5	3 842 555 600
E	PE conductor connection		8 mm slot	3 842 564 106
			10 mm slot	3 842 564 107
F	Connection cable	EU	4	3 842 537 598
			3	3 842 527 207
			2	3 842 517 047
			1.5	3 842 537 123
			1	3 842 517 049
			0.5	3 842 517 051
		USA/CAN*	4	3 842 537 599
			3	3 842 537 558
			2	3 842 537 560
			1.5	3 842 537 562
			1	3 842 537 564
			0.5	3 842 537 566

*UL and CSA test marks



GST plug, GST socket (F, G)

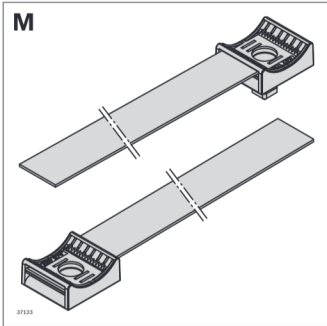
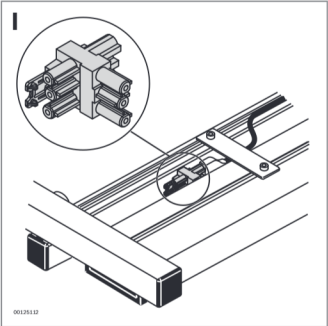
- For cable self-assembly
- Color: Black

Connecting plug

T-plug (I)

Plug-and-socket lock (J)

- For extending connection cables to standard

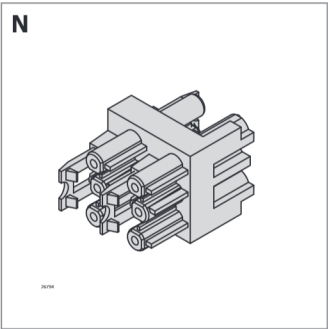


GST socket locking pieces (K)

GST plug locking pieces (L)

Loop cable bracket (M)


- Cable bracket with Velcro strap for the sparing guidance of cables and hoses.
- Cable brackets with foot can be screwed into the slot without tools Installation parallel or vertical to the slot possible
- Loop flat cable bracket for the installation on panel elements or on EcoShape installation base



See also the Bosch Rexroth cable duct range, MGE 14.0 Basic Mechanic Elements, chapter 11

POWER H-distributor (230 V) (N)

- For connecting up to three economic lamps to one mains connection
 - Compatible with 45 x 45 or cable duct (see MGE 13.2)
- Color: Black

	Version		No.
F GST plug		10	3 842 517 043
G GST socket		10	3 842 517 044
H Connecting plug		10	3 842 517 055
I T-plug		10	3 842 532 909
J Plug-and-socket lock			3 842 554 181
K GST socket locking piece			3 842 555 621
L GST plug locking piece			3 842 555 622
M Cable bracket	Loop flat	10	3 842 559 380
	Loop 8	10	3 842 559 381
	Loop 10	10	3 842 559 382
	Adapter D28L	10	3 842 562 115
N POWER H-distributor (230 V)		1	3 842 564 097