

## TUBEO Tubular LED Light Fitting Series 110...

### Applications:

Public, commercial and industrial areas which are endangered by water jets, water spray, dusty atmospheres or high mechanical stress (vandalism). Car washes, inspections pits, docks, ships, food industry, slaughter houses, subway and railway stations endangered by vandalism, prisons, car parks, etc..

### Design:

**Housing:** Impact and shatter resistant clear PMMA tube, Ø 100mm.

**Fastener:** Tubular locking cap made of

stainless steel with foamed gasket, special element for compensation of length expansion.

**Reflector:** Sheet steel with electric components and frosted cover for glare limitation.

**Connecting:** 3-pole quick connect IP69K (FastConnect). Plug integrated and internally pre-wired, receptacle included for mains assembly.

**Mounting:** Supplied with 2 stainless steel pipe clamps.

### Technical data:

**LED:** Linear modules 4,000K, CRI > 80, lifetime L<sub>90</sub> > 50.000h at 25°C ambient temperature, lifetime L<sub>80</sub> > 70,000h at max. ambient temperature

**ECG:** 220-240V, 50/60Hz, overload and short-circuit protection

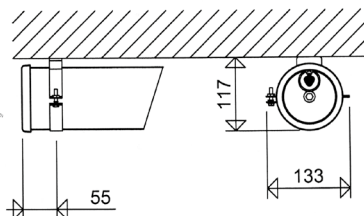
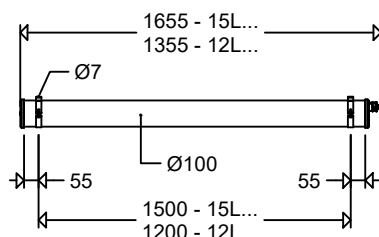
**Ambient temperature:** -25°C up to see article tables

### Options:

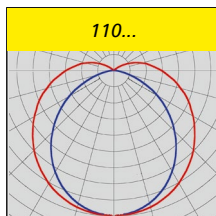
- 6.500K
- PC-tube (4 x IK10/80 Joule) for food industry areas according to „International Featured Standard Food“
- for low ambient temperatures
- increased protection against corrosive atmospheres or harmful gases, version ER
- optics with 60° angle (TB)
- for connection to group or central battery systems (ZB) or emergency mains respectively
- with through wiring up to 3 x 2,5 mm<sup>2</sup> or up to 5 x 2,5 mm<sup>2</sup> for DIMD types
- Light Management System LIMAS Line for controlling DIMD light fittings with DALI2 interface

### Note:

When installing in a saline atmosphere, please request the special version.



For vertical installation, please note:  
Plug part must face downwards. Through wiring not possible. For Cable looping please use accessory 110 SVDA 3.



### Product highlights:

- sturdy and extremely rugged tubular light fitting for application in rough environments
- dust- and pressure water tight (IP68, 3m/ 30 min)
- suitable for cleaning with high pressure cleaner (IPX9K)
- optional high-impact resistant polycarbonate tube 4 x IK10 (80 joule min.) for applications in the food industry, areas with a risk of vandalism etc.
- highest efficiency due to use of top-quality ECGs and LED modules
- high colour reproduction CRI > 80, according to the workplace guide lines suitable for nearly all plant locations
- homogeneous illumination by using frosted covers, no particular light points visible, comfortable perception of light, brilliant glare limitation
- with Ψ-sign, suitable for rooms with increased fire risk due to deposits of combustible dust and fibrous materials
- FastConnect quick connector - electrical connection without opening the fitting
- flexible mounting with pipe clamps
- future proof by using standardized LED-modules (Zhaga)

Article No.	Type	Power consumption [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Amb. temp. max. [°C]	Substitute for ca. *	(without packing material)
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## 110...

		LED	IP68	IPX9K	IK07				
11000 0003	<b>110 12L22</b>	15	2.390	159	45	1 x 36W	4,4		
11000 0004	<b>110 15L34</b>	21	3.440	164	45	1 x 58W	5,0		
11000 0005	<b>110 12L42</b>	27	4.240	157	35	2 x 36W	4,4		
11000 0006	<b>110 15L60</b>	39	6.160	158	35	2 x 58W	5,0		
11000 0007	<b>110 15L100</b>	67	10.360	155	35	3 x 58W	5,1		

\* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.

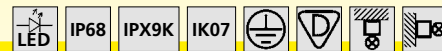
Properties, limitations and details for controlling LED-light fittings:

See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).

Article No.	Type	Power consumption [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Amb. temp. max. [°C]	Substitute for ca. *	(without packing material)
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## 110... DIMD



11000 0013	<b>110 12L22 DIMD</b>	15	2.390	159	45	1 x 36W	4,4
11000 0014	<b>110 15L34 DIMD</b>	21	3.440	164	45	1 x 58W	5,0
11000 0015	<b>110 12L42 DIMD</b>	27	4.240	157	35	2 x 36W	4,4
11000 0016	<b>110 15L60 DIMD</b>	39	6.160	158	35	2 x 58W	5,0
11000 0017	<b>110 15L100 DIMD</b>	67	10.360	155	35	3 x 58W	5,1

\* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.

DIMD versions are compatible with LIMAS Line light management system.

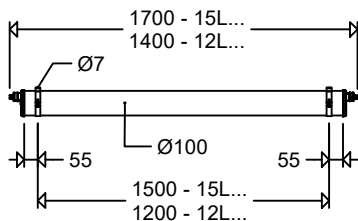
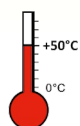
## 110... H50



for high ambient temperatures up to +50°C

11000 0055	<b>110 12L42 H50</b>	27	4.240	157	50	2 x 36W	4,4
11000 0056	<b>110 15L60 H50</b>	38	6.160	162	50	2 x 58W	5,1

\* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.



### Through wiring

The light fittings are available with through wiring installed at the factory only. The dimensions of the light fitting change due to the quick plug connection integrated into the connection cap on both sides (see dimension drawing). For the last luminaire in the light band, the socket part on the luminaire must be covered with a locking piece (part of the delivery).

## Accessories / Spare Parts

Article No.	Type	
90272 9001	<b>110 RO V P</b>	1 pair of pipe clamps, stainless steel
90273 9001	<b>110 036</b>	spare tube PMMA for 110 12L..
90273 9002	<b>110 058</b>	spare tube PMMA for 110 15L..
90273 9003	<b>110 036 PC</b>	spare tube PC for 110 12L..
90273 9004	<b>110 058 PC</b>	spare tube PC for 110 15L..
90049 0002	<b>183 S</b>	hook for chain suspension, stainless steel
90278 9001	<b>110 SVDA-3</b>	splitter connector for in-out wiring on one end
90278 9002	<b>110 SVDA-5</b>	splitter connector for in-out wiring on one end, 5-pole version for DIMD