



# LED and filament bulbs

LED bulbs use a **monochromatic light source**, the light is so defined when it consists of electromagnetic waves that have the same wavelength (except white LEDs which are normally bichromatic).

**Always use LED bulbs with lens having the same color.**

The use of white light LED bulbs coupled with caps of other colors, they restore the filter function of the caps with the sole purpose of reducing the light output.

Life over 25.000 hours. No maintenance or assistance costs.

**Low current consumption** and **perfect performance** even in the presence of strong vibrations or shocks.

## Bulbs colors



Sold in packs of **10 bulbs**

## BULBS with 10 SMD LED

Bulbs with 10 SMD LED 360 ° diffused light and frontally. BA 15d connection.  
Particularly suitable for use in stack lights and beacons.



### Technical features

#### Operating voltage

12V - 24V - 48V - 115V - 230V (other on request )

#### Colors








#### Dimensions

Ø 19x H41

#### Current consumption

24 V DC/AC, < 50 mA - 115 V AC, < 18 mA

230 V AC, < 17 mA

COLORS	Codes for ordering			
	12V DC-AC	24 V DC-AC	48V AC	115V - 230V AC
	11EA2	11EB2	-	11EG2
	-	11EB4	-	11EG4
	-	11EB5	-	11EG5
	-	11EB6	-	11EG6
	11EA9	11EB9	11ED9	11EG9

## BULBS with 45 SMD LED

Bulbs with 10 SMD LED 360 ° diffused light and frontally. BA 15d connection.  
Particularly suitable for use in stack lights and beacons.



### Technical features

#### Operating voltage

24V - 115V- 230V (other on request)

#### Colors



#### Dimensions






Ø 20x H44 - Ø 25x H47 (only for type 11HE...)

#### Current consumption

24 V DC/AC, < 110 mA - 115 V AC, < 30 mA

230 V AC, < 25 mA

## BULBS with 45 SMD LED

COLORS	Codes for ordering		
	24 V DC-AC	115V AC	115V - 230V AC
	11KB2	11HE2	11KG2
	11KB4	11HE4	11KG4
	11KB5	11HE5	11KG5
	11KB6	11HE6	11KG6
	11KB9	11HE9	11KG9

## Bulbs with LED BA 9s

LED bulbs with front light. **BA 9s connection.**

Particularly suitable for use in indicator lights and illuminated pushbuttons.



### Technical features

#### Operating voltage

12 V – 24 V – 48 V – 115 V – 230 V (other on request)

#### Colors








#### Dimensions

Ø 10 x H27 - Ø 10 x H24 (only for 1Y1B...series)

#### Current consumption

24 V DC/AC, < 20 mA - 115 V AC, < 8 mA – 230 V AC, < 5 mA

COLORS	Codes for ordering				
	12V DC-AC	24 V DC-AC	48V AC	115 V AC	230 V AC
	1Y1A2	1Y1B2	1Y1D2	1Y1F2	1Y1G2
	1Y1A4	1Y1B4	1Y1D4	1Y1F4	1Y1G4
	1Y1A5	1Y1B5	1Y1D5	1Y1F5	1Y1G5
	1Y1A6	1Y1B6	1Y1D6	1Y1F6	1Y1G6
	1Y1A9	1Y1B9	1Y1D9	1Y1F9	1Y1G9

## FILAMENT BULBS

Sturdy and shock-proof filament bulbs. **BA 15d connection.**

Life 2000 working hours.



### Technical features

<b>Operating voltage</b>	<b>Dimensions</b>
12V - 24V - 30V - 115V - 230V	Ø 16x H35

Codes for ordering									
12 V DC-AC		24V DC-AC		30 V		115 V AC		230 V AC	
11-12	5W	11S24	5W	1130V	5W	11E15	5W	11E30	5W
-		11B10	10W	-		11F60	60W	-	
-		11B21	21W	-		-		-	
-		11B45	45W	-		-		-	

## Notes

---



---



---



---



---



---



---



---



---



---