Neon Datalamp Cartridges



NEON DATALAMPS

Electrically, neon lamps are unique. They require a minimum firing voltage, and once started, current must be limited by a series resistor whose

value determines performance. Both the standard and the high brightness neons are each offered with 2 resistor values. In each case the lower value gives the best indication, with a minimum life of 5000 hours, while the higher value results in long life, preferred where 25000 hours or more operation may be required.

No indicator light in this voltage range is more rugged or shows slower deterioration as it operates than the high brightness types of the neon T-2 series. Offering relatively constant light output

through life, and five times the brightness of the standard T-2 neon, they should be used in all cases where the circuit voltage is adequate.

Neon Lamps for Circuit Component Uses

Lamps of the "standard brightness" type may be required with narrower limits on starting voltage than are characteristic of run of factory product. Seasoned and selected lamps will be provided in Datalamps on request. Practical limits are 72 ± 8 volts and, at higher cost, 72 ± 4 volts. All selected lamps contain radio-active additive for more stable starting voltage characteristics. The shielding provided by the Datalamp housing, if grounded, adds a useful stablizing effect.

MATERIALS AND FINISHES

- Housing: Aluminum. Standard finish clear anodize.
 Optional black anodize. Other finishes available on special order.
- Connections: Nickel silver pins mounted in nylon insulated header. Offset to provide polarization.
- Lens: Heat resistant, high strength plastic. Permanently attached to the open end of the housing.

Part numbers shown in gray are normally in inventory at your Dialight Distributor.

RECOMMENDED BUILT-IN RESISTANCE VALUES

Neon Lamp	Volts Applied to Terminals	Bright Light Resistor and Approx. Life	Long Life Resistor and Approx. Life	
High Brightness	-9,			
A1C	110-125 AC only	22K 5,000 hrs.	33K 25,000 hrs.	
Standard Brightness				
A1B	105-125 AC or DC	56K 3,000 hrs.	100K 15,000 hrs.	

Change the second digit in the part number suffix to designate the appropriate built-in resistor as follows:

22K-1; 33K-3; 56K-4; 100K-7.

Example: 507-4537-0931-670.

	Design Voltage	Lamp Hours [♦]	Built-in Resistor	Stovepipe Fig. 6	Stovepipe Fig. 7	Short Cylindrical Fig. 8	
High Brightness	110-125V AC	A1C	5,000	22K	507-4538-0931-610	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	507-4538-1431-610
	110-125V AC	A1 C	25,000	33K	507-4538-0931-630		507-4538-1431-630
	110-125V AC	NE2H	5,000	DNONE	The second secon	507-3836-0931-600	
	110-125V AC	A1C	25,000	NONE	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	110-125V AC	A1 C	5,000	22K	And the second s	507-5338-0931-610	
.	110-125V AC	A1C	25,000	33K		507-5338-0931-630	Maria de la companya

Standard Brightness	105-125V AC-DC	A1B	3,000	56K	507-4537-0931-640	13 01 11 11 11 11 11 11 11 11 11 11	507-4537-1431-640
	105-125V AC-DC	A1B	15,000	100K	507-4537-0931-670		507-4537-1431-670
	105-125V AC-DC	NE2E	3,000	DNONE		507-3835-0931-600	A Company of the Comp
	105-125V AC-DC	A1B	15,000	PNONE			
	105-125V AC-DC	A1B	3,000	56 K		507-5337-0931-640	
	105-125V AC-DC	A1B	15,000	100 K	The second second second second	507-5337-0931-670	

Note: The part numbers designate cartridges with red lens. Refer to Lens color code for other colors.

Important: If Datalamp cartridge is to be used with complete indicator (illustrations E and F, pages 16B-17B), specify clear colorless lens only.

To obtain optional black anodize finish, change the "6" in the part number suffix to "5".

Example: 507-4538-0931-510.

- □The necessary current-limiting resistor must be added externally. See the chart with recommended resistance values
- + These Datalamp Cartridges are listed to extend the range of the 507-5824-0747-600 incandescent cartridges (described on pages 10B-11B) to 125 volts. The cartridge is accommodated by complete indicator B only (see pages 16B-17B).
- Replacement is indicated when darkening of lamp is observed.

LENS COLOR CODE

Number	Color Code		
1	Red		
3	Yellow (Amber)		
5	White (Translucent)		
6	Light Yellow		
7	Clear Colorless		
5,240			

Example: 507-4537-0935-670 (White)

MARKINGS

Markings on Datalamp cartridge include DIALCO, basic Datalamp series number and resistor value. Example: DIALCO 507-4538 33K