

AUTO LAMPS

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629.1.066

TUNGSTEN AUTO BULBS

Lamps for side, tail and auxiliary lighting.

Festoon lamps.

Double-filament (Duplo-D) automobile headlight lamps.

RANGE

Side or tail:— 12V, with wedge or MCC base.

Indicator:— 12V 3W or 1·2W with wedge base.

Auxiliary:— 6V, 12V or 24V, with BA7s or MCC base.

Festoon:— 6V, 12V or 24V, in ratings from 3W to 21W.

Headlight:— 12V 45/40W, Duplo-D, clear or cadmium yellow finish.

APPLICATIONS

For use in all British and European road vehicles fitted with suitable lampholders and headlight reflector systems.



Handbook Ref

8.1.1

To reorder this data sheet quote

3.78 PL 1010

Replaces

NEW

FEATURES

■Duplo: Dipped filament shield prevents light from reaching the bottom half of the reflector, giving a sharp cut-off to the top of the beam to improve visibility and reduce dazzle.

■Where appropriate, lamps are 'E' marked, signifying compliance with International Standards and approval for use in new vehicles, and ensuring high standards of performance when used for service replacements.

LAMP DATA

Catalogue No.	Volts*	Watts	Length	Bulb Diameter	Cap	Packing quantity
	(nominal)	(nominal)	A (max) (mm)	B (max) (mm)		
Side or Tail bulbs						
501	12	5	20.7	10.3	Wedge	10
12929	12	4	27.4	8.6	MCC	10
Indicator lamps						
504	12	3	20.7	10.3	Wedge	10
12516	12	1.2	14.5	5	Wedge	10
Auxiliary lamps						
282	6	0.6	20.7	6.8	BA7s	10
281	12	2	20.7	6.8	BA7s	10
283	24	3	20.7	6.8	BA7s	10
6913	6	2	23.9	8.6	MCC	10
12913	12	2	23.9	8.6	MCC	10
13913	24	2	23.9	8.6	MCC	10
Festoon lamps						
253	6	5	36	11	Festoon	10
256	12	3	33	8	Festoon	10
254	12	5	36	11	Festoon	10
12854	12	10	36	11	Festoon	10
265	12	10	41	11	Festoon	10
267	12	15	41	15.5	Festoon	10
12807	12	18	41	15.5	Festoon	10
273	12	21	41	15.5	Festoon	10
653	24	5	36	11	Festoon	10

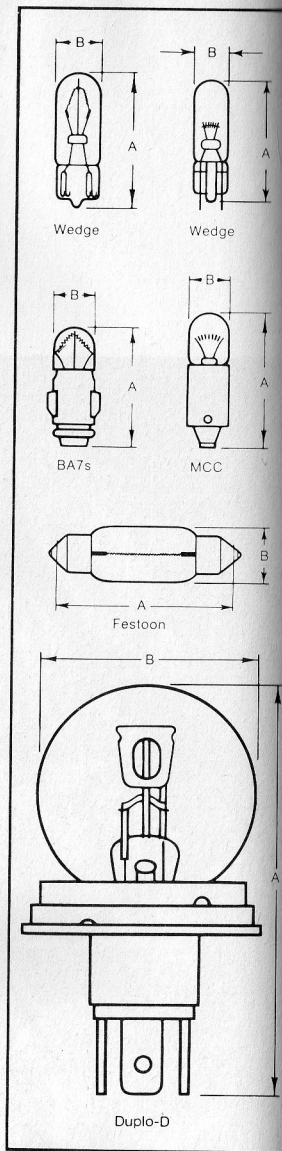
*Design voltages are 6.75, 13.5 and 28V

DUPLO-D LAMP DATA

Cat. No.	European No.	Volts	Watts	Length	Bulb Diameter	Cap	Finish	Packing quantity
				A (max) (mm)	B (max) (mm)			
423	6620	6	45/40	82	41.5	P45t	Clear	200
410	12620	12	45/50	82	41.5	P45t	Clear	200
411	12620/86	12	45/50	82	41.5	P45t	Cadmium yellow	200

Please order lamps in the form given in the following example, in multiples of the packing quantity and quoting the Catalogue No., voltage and wattage of the lamps:—
200 Philips headlight lamps 12V 45/50W, No. 411.

For details of tungsten halogen headlight bulbs, see Data Sheet PL 1820



Drawings not to scale

See packing for country of origin.

629.1.066

HALOGEN AUTOBULBS

Tungsten halogen single and double filament types

Single filament tungsten halogen lamps to provide the main beam in four-headlamp systems, and for use in auxiliary lighting equipment such as spot and fog lamp units.

Double filament tungsten halogen with shielded dip filaments to provide anti-dazzle, sharp cut-off beams.

A miniature lamp for applications where a lower wattage is appropriate.

RANGE

Single filament:— Types H1 (axial filament) and H3 (transverse filament), in 6V 55W, 12V 55W and 24V 70W versions.

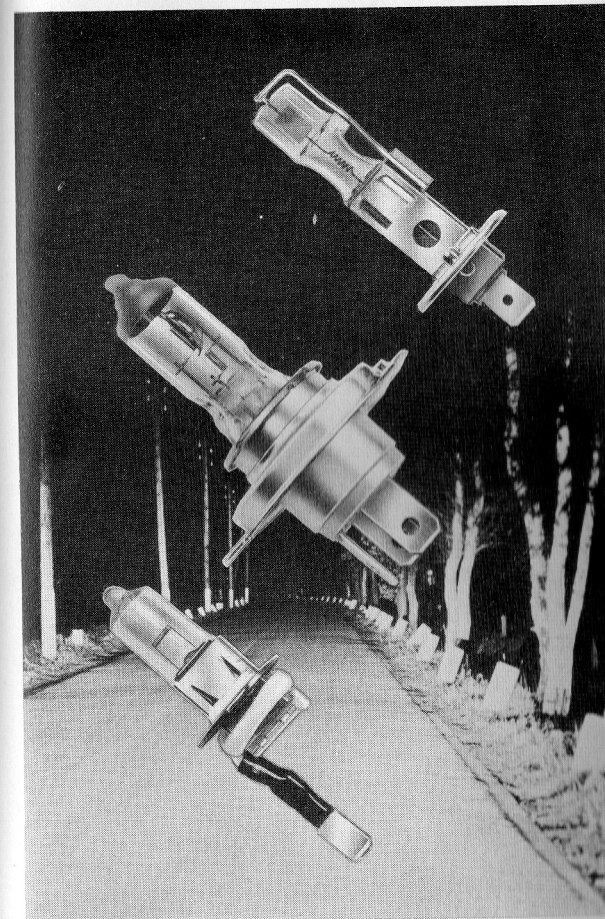
Double filament:— Types H4 12V 60/55W and 24V 75/70W, in clear or cadmium yellow versions.

Miniature:— Type 12452, 12V 20W.

APPLICATIONS

For use in purpose-designed headlight units to bring the advantages of high-intensity tungsten halogen lighting to road vehicles. Type 12452 is suitable for any application where a miniature lamp with relatively high output is appropriate, including:—

- Reversing lights
- Fog rear warning lights
- Inspection lamps
- Mo-ped headlights
- Portable lamps for camping
- Heavy-duty torches
- Instrument illumination in scientific instruments.



Handbook Ref

8.1.2

To render this data sheet quote 2.78 PL 1820

Replaces NEW

FEATURES

- Tungsten halogen regenerative cycle maintains high light output throughout rated life of lamp.
- Lamps are 'E' marked signifying approval for use in new vehicles, and assuring high standards of performance when used for service replacement purposes.
- Accurately constructed, with precise positioning of the filaments and dip shield, where appropriate, to ensure correct focus and beam control.
- Miniature type provides high levels of illumination with low heating effect.
- All products are of proven reliability.

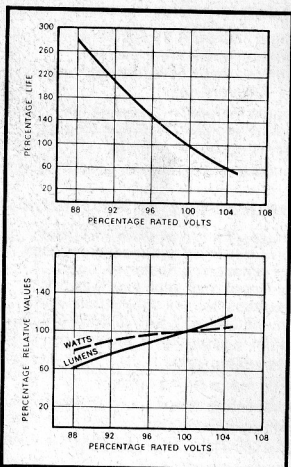
SPECIFICATION

- Manufactured to International and EEC standards.

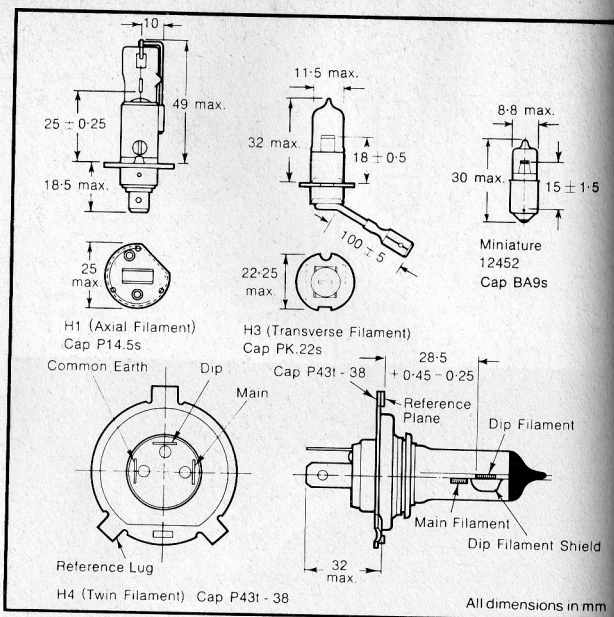
For full specifications see ECE Regulation No. 37.

Miniature type 12452 is not internationally standardised.

Variation of Electrical and Light Characteristics with Applied Voltage



These curves are based on averages obtained with many lamps, and may be used as an approximate guide to performance. Theoretical values of extended life may not be realised in practice, since factors such as vibration, handling, cleaning and frequency of switching have an appreciable effect on lamp life.



LAMP DATA

International Type	Catalogue No.	Volts	Watts	Cap	Filament axis	Finish	Packing quantity
H1	6258	6	55	P14.5s	Axial	Clear	10
H1	12258	12	55	P14.5s	Axial	Clear	10
H1	13258	24	70	P14.5s	Axial	Clear	10
H3	6336	6	55	PK22s	Transverse	Clear	10
H3	12336	12	55	PK22s	Transverse	Clear	10
H3	13336	24	70	PK22s	Transverse	Clear	10
H4	12342	12	60/55	P43t	Axial	Clear	10
H4	12342/86	12	60/55	P43t	Axial	Cadmium yellow	10
H4	13342	24	75/70	P43t	Axial	Clear	10
H4	13342/86	24	75/70	P43t	Axial	Cadmium yellow	10
—	12452	12	20	BA9s	Transverse	Clear	10

ELECTRICAL CHARACTERISTICS

Type	Catalogue No.	Filament	Test Voltage*	Maximum Wattage*	Nominal luminous flux (lumens)*	Average life (hours)*
H1	6258	—	6.3	63	1350	150
H1	12258	—	13.2	68	1550	150
H1	13258	—	28	84	1900	150
H3	6336	—	6.3	63	1050	150
H3	12336	—	13.2	68	1450	150
H3	13336	—	28	84	1750	150
H4	12342	Dip	13.2	68	1000	200
H4	12342	Main	13.2	75	1650	100
H4	13342	Dip	28	80	1200	200
H4	13342	Main	28	85	1900	100
—	12452	—	13.2	20	400	100

*The test voltages chosen relate to the circuit volts of a lead-acid battery under full charge. Wattage, luminous flux and average life are measured at the test voltage.

HANDLING: If the quartz bulb has been handled, it should be cleaned with a solvent such as methylated spirits to remove traces of grease before lighting.

SEAL TEMPERATURE: Precautions must be taken to ensure that the temperature of the quartz-metal seal does not exceed 350°C, though the bulb temperature must be greater than 250°C.