Performing Lights for the Performing Arts

RoughNeck® Tungsten Halogen
Lamps for STTV Lighting

SYLVANIA GTE

RoughNeck® Rugge

Built Stronger to Carry

RoughNeck®

Many of Sylvania's single ended tungsten halogen lamps use the patented RoughNeck base. The RoughNeck base provides much higher strength in the vital press seal area of the lamp. Breakage in shipment or in insertion or removal in the fitting is practically eliminated.

RoughNeck lamps make use of new filament alignment procedures to assure precise positioning for maximum output in optical systems.

Additionally, RoughNeck lamps use silver solder in all electrical connections assuring continuity in high temperature use.

Each lamp has a fast acting fuse removing the need for line or housing fuses. This provides safety against arcing at end of life or in rough treatment.

The Sylvania RoughNeck is an important new factor in tungsten halogen lighting for studio, television, theatre and video use.

Advanced Technology Produces Major Improvements

Advanced manufacturing equipment and production techniques have improved Sylvania RoughNeck STTV lamp types in three ways. First, precise filament positioning ensures maximum optical performance. Second, silver solder connections were developed to handle higher temperatures and third, longer bases with a glass-supporting collar adds overall structural strength.

dized STTV Lamps

he Lighting Load Longer

■ Accurate Filament Alignment

More advanced precision manufacturing equipment and techniques position lamp filaments more accurately than ever before. Accurate filament alignment enables Sylvania RoughNeck lamps to consistently provide maximum optical performance in lighting fixtures.

■ Silver Solder Connection

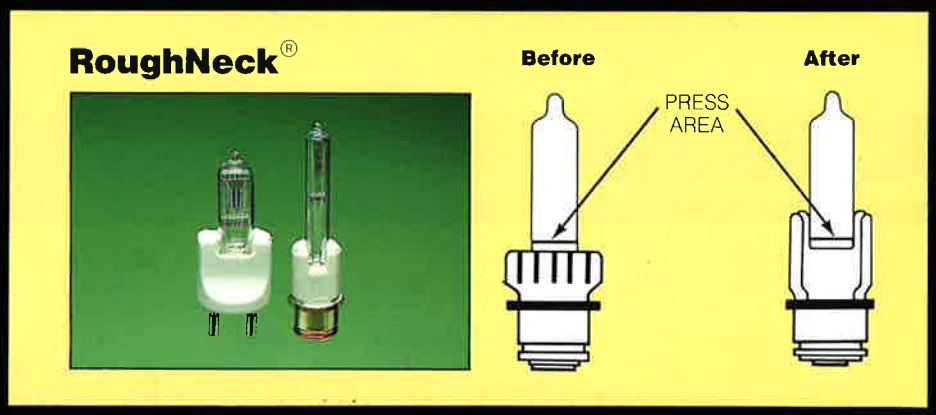
Silver solder is now used to connect the filament leads to the base contacts. This makes these lamp types much more durable under high temperature operation.

■ Longer RoughNeck® Base

New ceramic bases are longer with a collar that reinforces the narrow press seal point of the glass cylinder by adding support over a larger area. This structural improvement enables the lamps to withstand additional torque at the lamp press, where they are more vulnerable to breakage. The added structural strength of this longer base means less chance of breakage when fixtures are moved and when relamping on the set.

■ Ruggedized

In addition to improved lumen maintenance, these popular high wattage types have been ruggedized by using two improved manufacturing processes. First, silver solder is now used to connect the filament leads to the base contacts, ensuring more reliability in high temperature applications. Second, ceramic lamp bases have been lengthened to allow a collar, designed into the base, to support the high purity quartz glass cylinder. The addition of the RoughNeck collar gives these lamps greater structural strength, helping them resist fracture at the lamp's press seal when shipped, or when being inserted or removed from sockets on the set.



■ Long Lamp Life

Sylvania's FKK/CP 41 lamp is designed for an average life of 500 hours, a 25% increase in average life over our competitors. Combined with the high lumen output, the Sylvania lamp is a superior light source.

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The range of State-of-the-Art Lamps for STTV Lighting from Sylvania

Technical Data
Tungsten Halogen Lamps

Single Ended Lamps (CP)

WATTS	ANSI CODE	LIF CODE	VOLTAGE	BASE	COLOR TEMP (°K)	AVG. LIFE (HRS.)	LUMENS	FILAMENT CLASS	LCL (MM)
650	DYR	A1/233	220,240	GY9.5	3200	50	16,500	2CC-8	36.5
*1000	FKJ	CP40	220,240	G22	3200	200	[illegible]	[illegible]	63.5
*1000	FKN	CP52	220,240	P28	[illegible]	[illegible]	[illegible]	[illegible]	55.5
*1000	EWF	[illegible]	[illegible]	P28	[illegible]	[illegible]	24,500	CC-8	88.9
1000	FEF	[illegible]	[illegible]	G9.5	3200	300	23,400	CC-8	60.3
*2000	FKK	CP41	220,240	G38	3200	500	52,000	C13	127.0
2000	—	CP59	220,240	E40	3200	400	50,000	CC-8	133.0

PRODUCT RANGE EXPANDED

*RoughNeck® Design

Double Ended Lamps (P2)

WATTS	ANSI CODE	LIF CODE	VOLTAGE	BASE	COLOR TEMP (°K)	AVG. LIFE (HRS.)	LUMENS	FILAMENT CLASS	OVERALL LENGTH (MM)
800	DXX	P2/13	220,240	R7s	3200	75	20,000	CC-8	80.3
800	EME	P2/11	220,240	R7s	3200	150	[illegible]	[illegible]	119.6
1000	EKM	P2/7	[illegible]	R7s	[illegible]	150	[illegible]	[illegible]	191.6
1000	—	[illegible]	[illegible]	R7s	[illegible]	150	26,500	CC-8	95.1
1250	ELL	[illegible]	220,240	R7s	3200	200	33,500	CC-8	191.1
2000	FEX	P2/27	220,240	R7s	3200	300	50,000	CC-8	143.8

PRODUCT RANGE EXPANDED

PAR-64 Lamps (CP)

WATTS	ANSI CODE	LIF CODE	VOLTAGE	BASE	COLOR TEMP (°K)	AVG. LIFE (HRS.)	APPROX. CANDLEPOWER	BEAM ANGLE	FIELD ANGLE
1000	EXC	CP60	220,240	GX16d/EMEP	3200	[illegible]	[illegible]	[illegible]	10×24
1000	EXD	CP61	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7×13	13×27
1000	EXE	[illegible]	[illegible]	GX16d/EMEP	3200	350	122,000	9.5×25	17×40
1000	EXG	—	220,240	GX16d/EMEP	3200	350	31,000	19×58	35×80

PRODUCT RANGE EXPANDED

Data given for guidance only. Sylvania reserves the right to change specifications without prior notice.

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