



# LED reading lights

Design, comfort and safety on aircrafts



## ... about SCHOTT ...

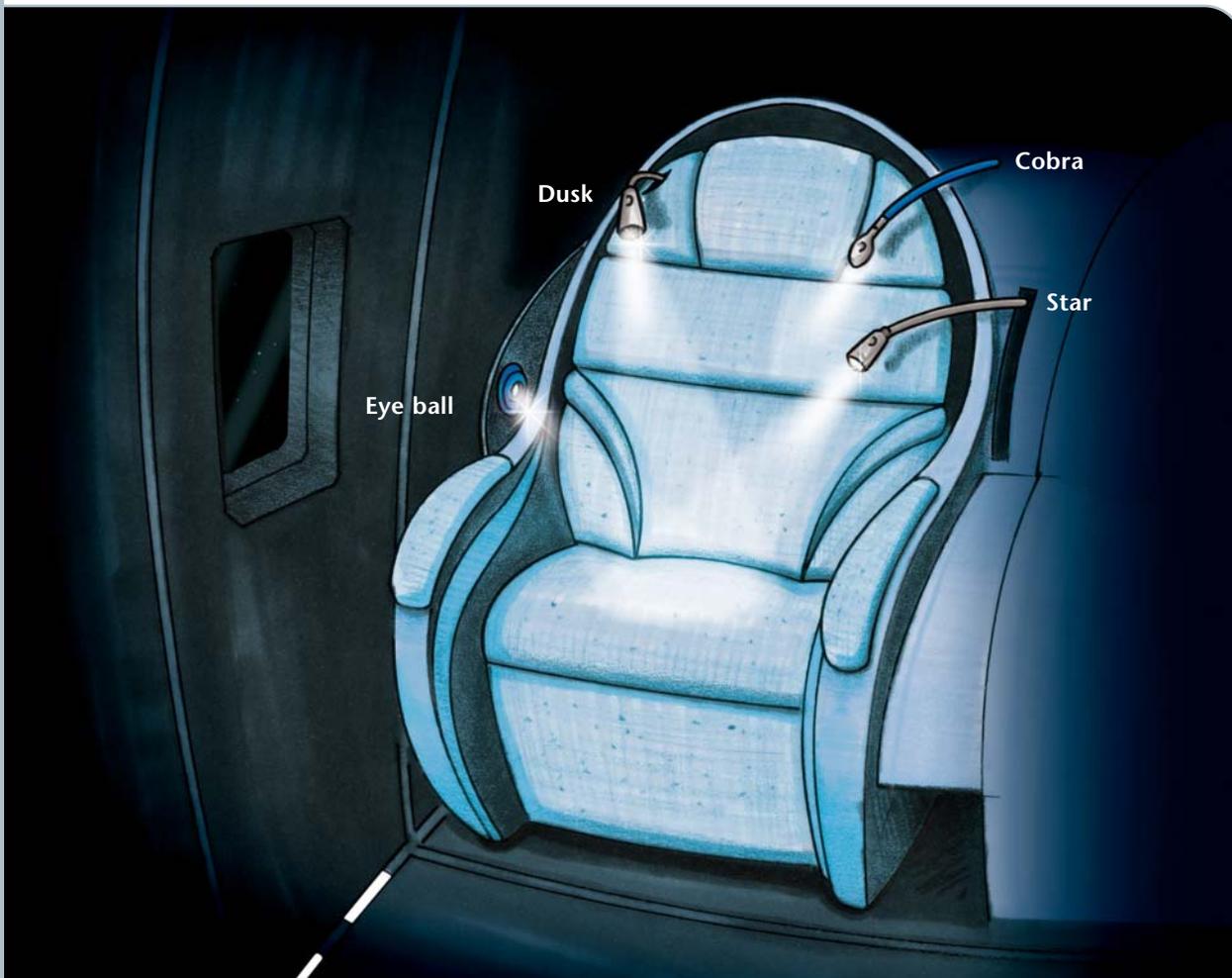
SCHOTT Fiber Optics, a Business Unit of SCHOTT AG, offers high-tech fiber optic and LED lighting solutions into markets such as aviation, automotive, lighting, medical, industrial and defense. By mastering glass, fiber optic and LED technologies we have developed outstanding, market-oriented products which offer customers maximum design flexibility.

### ... about Aviation lighting solutions ...

SCHOTT LED and fiber optic lighting products have pioneered markets such as the in-seat aviation reading lights. Currently, SCHOTT offers the aviation and transportation industry innovative and high-quality designs, quick turnaround sampling and cutting edge solutions in lighting very special environments such as aircraft interiors.

Combining SCHOTT's customer-orientated flexibility and the growing market needs for design differentiation, a modular concept of in-seat reading lights was a natural progression.

### Standard Reading Lights:



# LED reading lights – a modular concept

SCHOTT's modular design approach offers unparalleled design freedom. Reading lights can be arm, privacy panel, headrest or center console mounted via leather or terylene covered flex and stay or rigid anodized or powder coated aluminum tubing.

## LEDs

High performance LEDs are used to offer modules ranging from 12 to 18 LEDs or even single high brightness LEDs.

The principle characteristics are:

- micro processor controlled
- on board thermal management
- multiple switch board
- customized switching and dimming options



**18 LED module**  
replaceable LED module



**12 LED module**  
size & weight reduced



**1 LED module**  
high power LED,  
customized light output

## Heads

Superior materials combined with exclusive designs and high quality finishes enable unrivaled market differentiation.

Design aspects:

- anodized aluminum heads
- various head designs
- customized switch designs
- different color combinations of heads and switches are available



**Cobra**  
side emitting



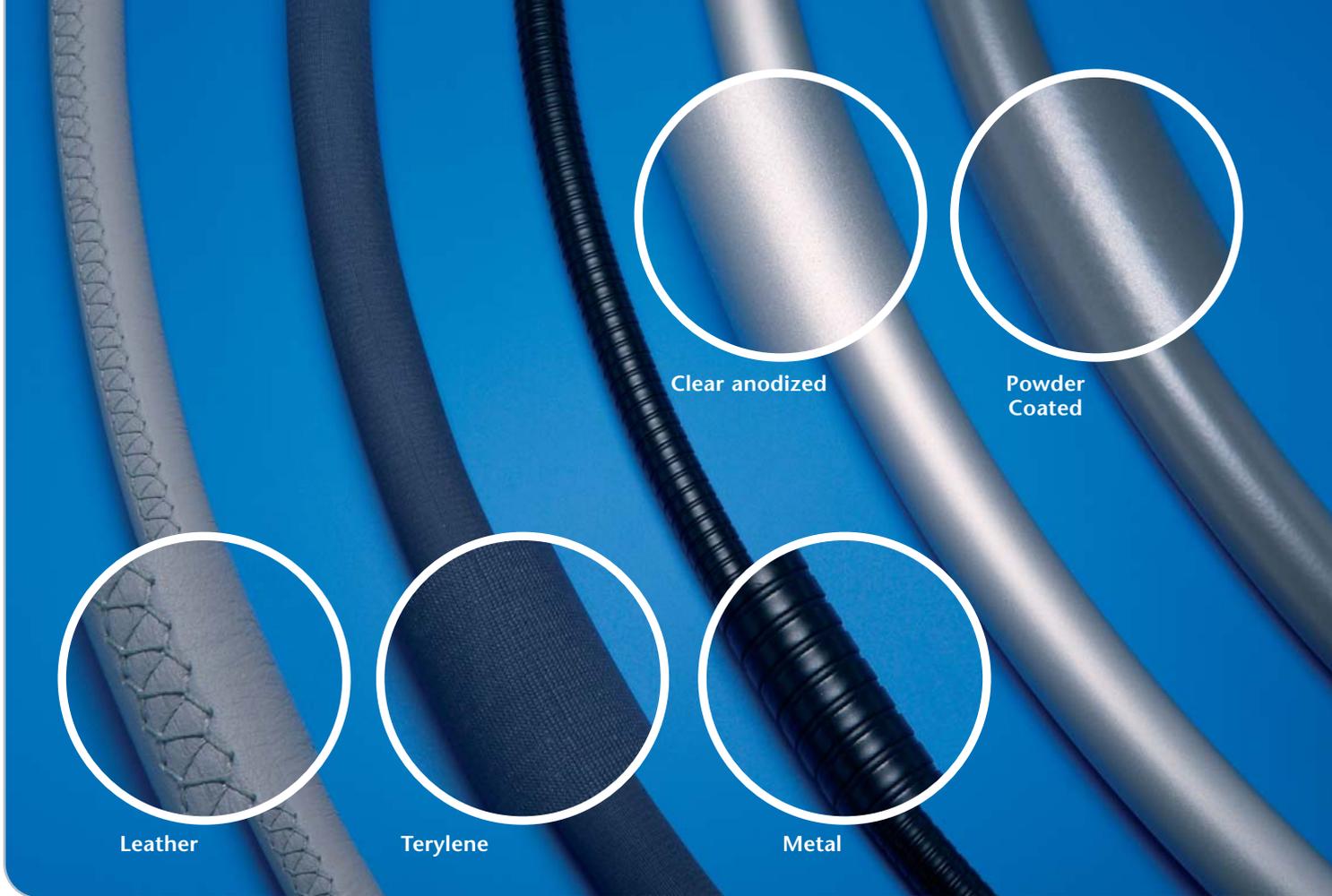
**Dusk**  
forward emitting



**Star**  
free angle emitting



**Solar**  
45° emitting



Leather

Terylene

Metal

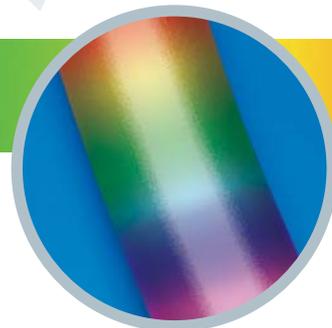
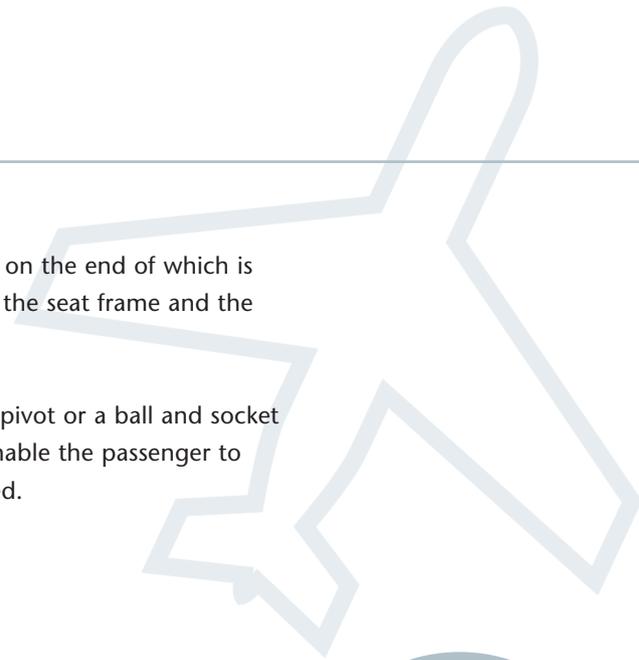
Clear anodized

Powder Coated

## Light arms...

The in-seat reading light consists of a short flexible "light arm" on the end of which is the "light head". The light arm is firmly secured to the back of the seat frame and the direction of the head is adjustable by the passenger.

Directional adjustment of a "rigid tube" type is facilitated by a pivot or a ball and socket joint, or a combination of both. Rigid and flexible light arms enable the passenger to position the light for comfort whether seated upright or reclined.



Color, texture and style combinations are endless.

# The future of in-seat reading-lights...

The rapid improvement of LED performance has enabled SCHOTT to offer unique design solutions for the discerning customer. The combination of LEDs with fiber optics offers unlimited choice for reading light integration. Now, smaller, lighter and more economical solutions can be offered not only for Business and First Class seats, but also for Economy Plus/Premium Economy seating.

By removing the light source away from the passenger both heat and size restrictions are reduced, allowing small, light weight, ergonomic solutions which offer the passenger maximum comfort.

The combined benefits of LED longevity and fiber optic flexibility makes SCHOTT and the seat manufacturer a winning team by offering integrated design concepts to the airline.

## Future Options:

