

# LWL Series

## ▶ Optical Fibers Attachment Optics

Optical fibers offer solutions for difficult tasks in optoelectronics. They can be used universally and allow flexible applications.

- Highest quality
- Selection from different fiber types
- Thermal stability
- Great variety of available standard sensor heads
- Special designs

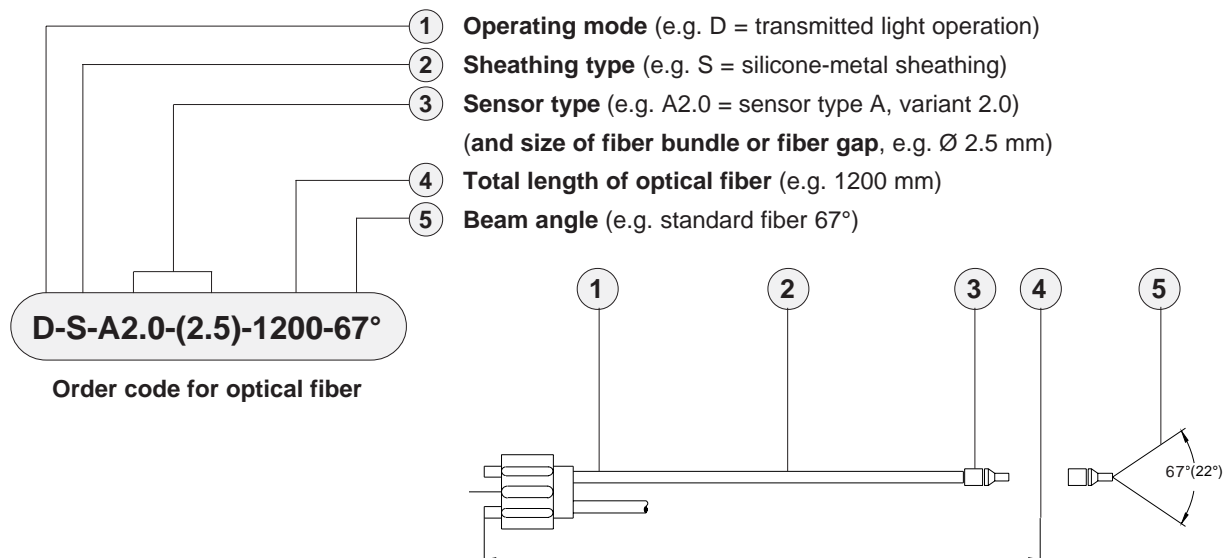


## Characteristics

Light-conducting glass fibers are optical components that allow the transmission of light through any curved path based on the principle of total reflection.

The individual fiber is composed of high-break core glass and low-break cladding glass. The light beams entering the core glass within the critical angle are guided through the fiber by way of reflection at the core/cladding contact surfaces (step index fiber).

The highly flexible optical fibers are made of bundled individual glass fibers. The ends are each glued into a sensor head and a connector. The faces are optically polished. For protection against mechanical, chemical, or thermal destruction the optical fibers are provided with a corresponding protective sheath.



### Dimensions of adaptor

**Attachment optics** (e.g. prism optics, reflex optics, focus lense)

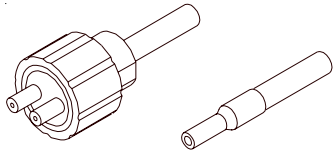
**Overview: Optical fibers with reflected light operation**

**Overview: Optical fibers with transmitted light operation**

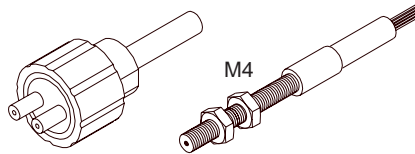
**Special optical fibers, mounting of optical fibers**



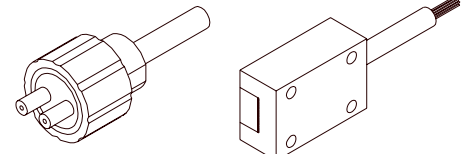
Fiber Optics



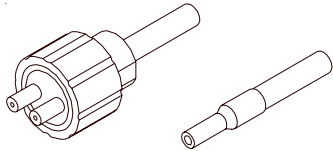
R-P-A2.0-(2.5)-...



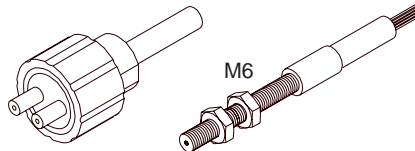
R-S-C1.0-(1.0)-...



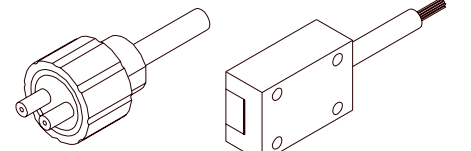
R-S-Q2-(10x0.3)-...



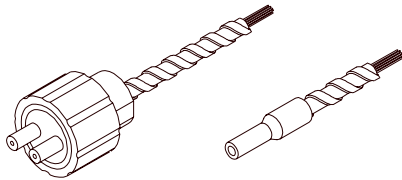
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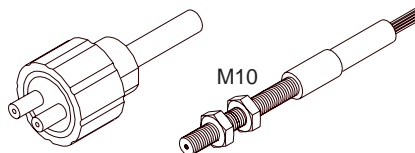
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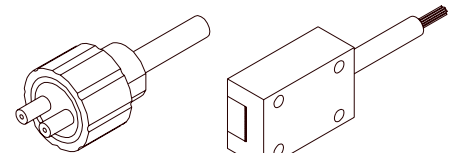
R-S-Q3-(18x0.3)-...



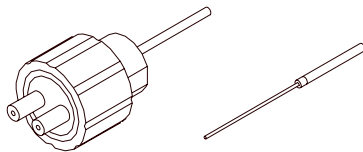
R-E-A2.0-(2.5)-...



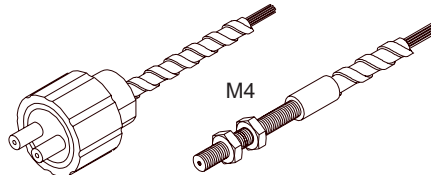
R-S-C3.0-(3.0)-...



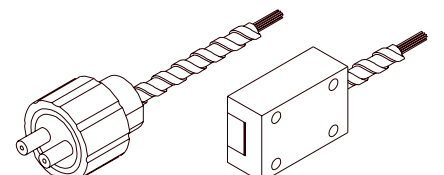
R-S-Q4-(28x0.2)-...



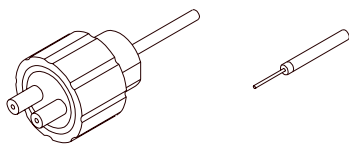
R-P-B1.1-(0.6)-...



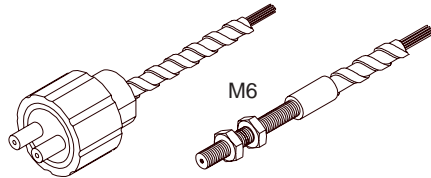
R-E-C1.0-(1.0)-...



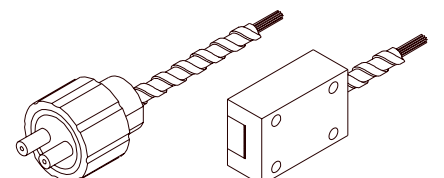
R-M-Q2-(10x0.3)-...



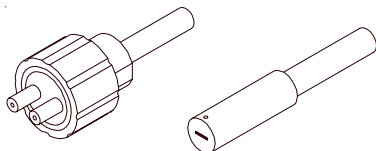
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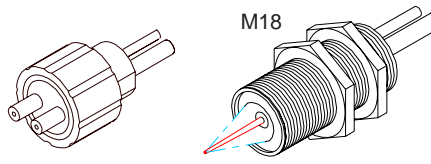
R-E-C2.0-(2.5)-...



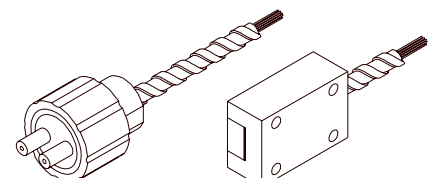
R-M-Q3-(18x0.3)-...



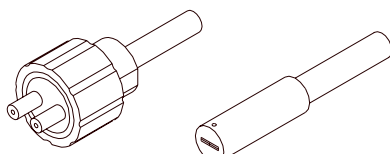
R-S-R1.1-(3x0.5)-...



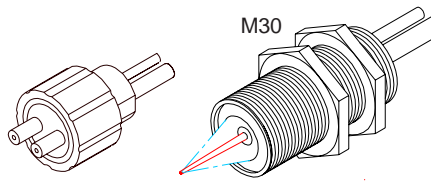
R-P-M18-(25)-...



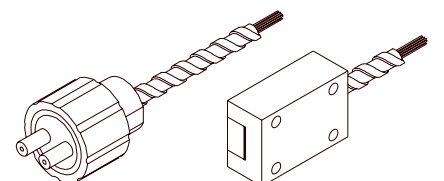
R-M-Q4-(28x0.2)-...



R-S-R2.1-(6x1)-...

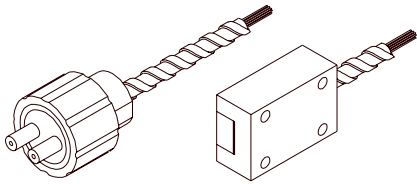


R-P-M30-(30)-...

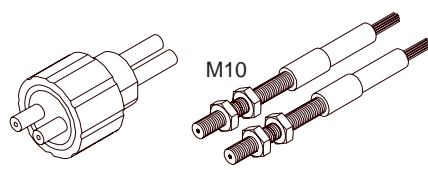


R-E-Q2-(10x0.3)-...

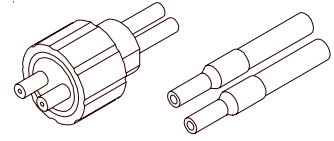
Fiber Optics



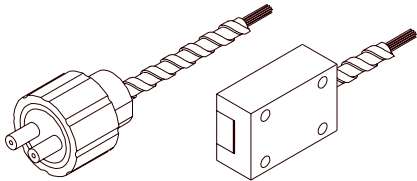
R-E-Q3-(18x0.3)-...



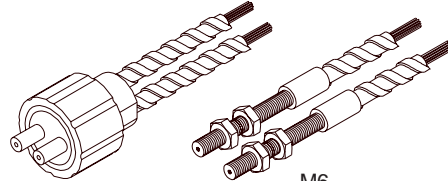
D-S-C3.0-(3.0)-...



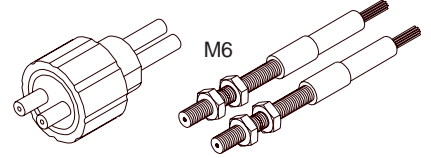
D-S-A2.0-(2.5)-...



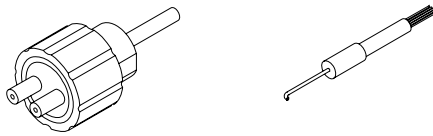
R-E-Q4-(28x0.2)-...



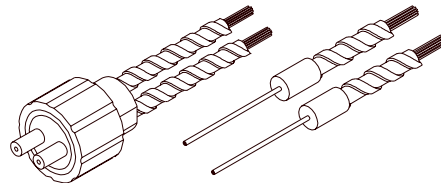
D-E-C2.0-(2.5)-...



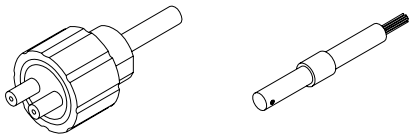
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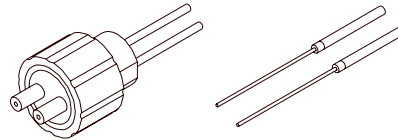
R-S-D1.1-(0.6)-...



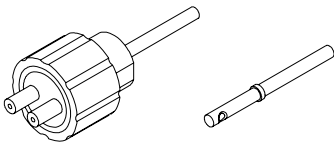
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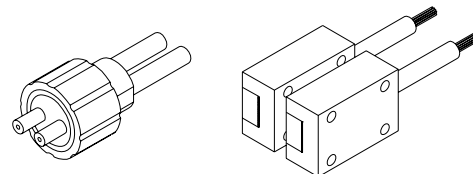
R-S-F1.0-(1.5)-...



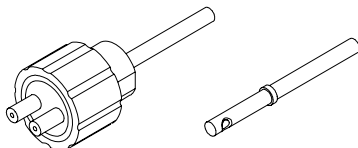
D-P-B1.1-(0.6)-...



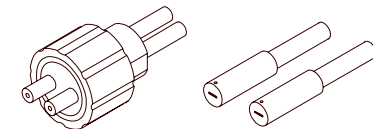
R-P-E1.0-(1.5)-...



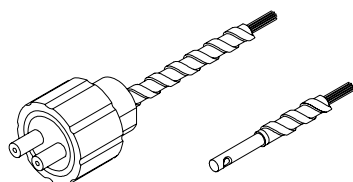
D-S-Q4-(28x0.2)-...



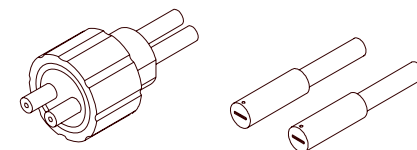
R-P-E2.0-(2.5)-...



D-S-R1.1-(3x0.75)-...



R-M-E2.0-(2.5)-...



D-S-R2.1-(6x1)-...

Attachment Optics

