# 玻璃光纤
**漫反射原理**

## 051-101-102
订货号



- **能够短时间内交货的轴承型号**
- **通过积木系统实现多种型号选择，匹配任何应用状况。**

### 技术数据

| | |
|---|---|
| **光学数据** | |
| 纤维束直径 | 0,5 mm |
| 利用U_88__型传感器的探测范围 | 16 mm |
| 利用U_66__型传感器的探测范围 | 8 mm |
| 利用U_55__型传感器的探测范围 | 4 mm |
| 张角 | 68 ° |
| 光纤 | 阶跃指数 |
| 纤维直径 | 50 µm |
| 光纤分布 | 统计上的混合 |
| **机械数据** | |
| 温度范围 | -25...80 °C |
| 弯曲半径 | 21 mm |
| 光缆长度 L | 0,5 m |
| 外皮材料 | PVC |
| 终端套管材料 | 不锈钢 |
| 终端编号 | 1 |
| 光出口 | 直 |
| 光导适配器编号 | 001 |
| 适当的紧固技术编号 | 310 |

玻璃光缆非常柔韧，即便是狭窄的场地条件也可以使用。尤其是在环境温度较高的情况下，提供金属护套的玻璃光缆作为解决方案。



# Fiber Optic Cable Combination

## Choose your individual Glass Fiber Optic Cable

wenglor
the innovative family

**1** First you have to choose the required range. If you cannot find a suitable range, please change to another Fiber bundle diameter. The range depends on the length of the Fiber optic cable and the switching range of the chosen sensor.

**2** Choose the jacket and the endpot.

**3** Choose the right adapter for your sensor.

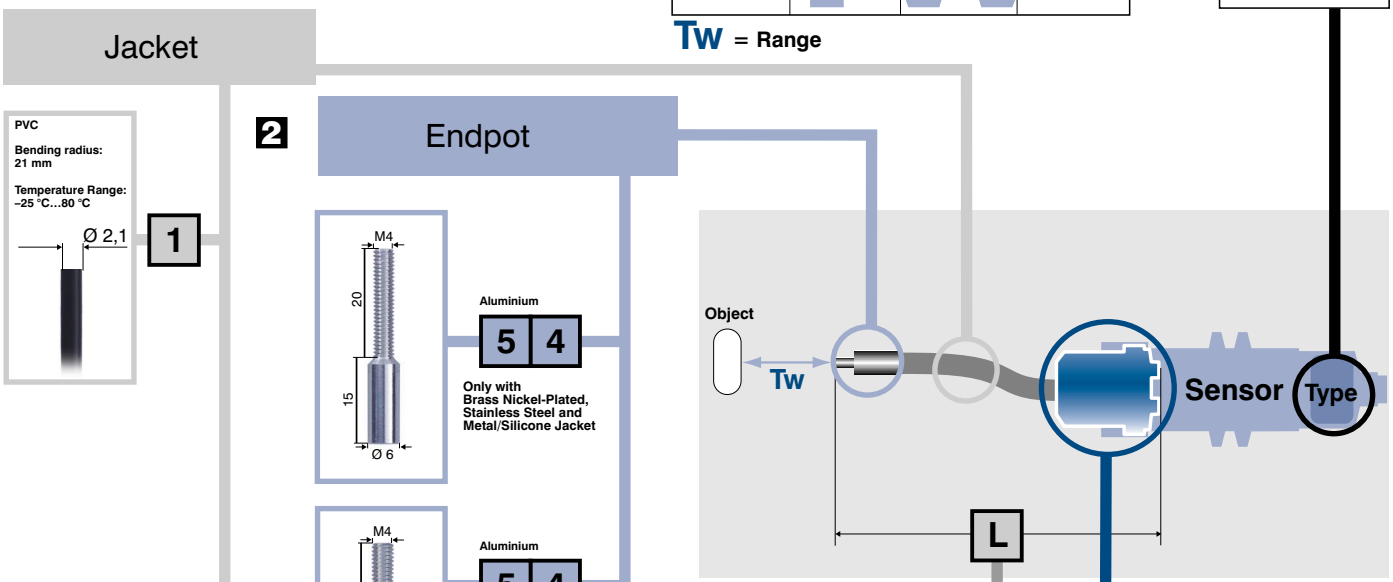
**4** Choose the length of the Fiber arm (in 0,25 m steps).

| Fiber optic length | | | |
|---|---|---|---|
| 1,0 m | 0,75 m | 0,5 m | 0,25 m |
| 12 mm | 14 mm | 16 mm | 20 mm |
| 6 mm | 7 mm | 8 mm | 10 mm |
| 3 mm | 3 mm | 4 mm | 5 mm |

**Tw = Range**

**1 Sensor Type**

U_ 88 __
U_ 66 __
U_ 55 __




## Jacket

**PVC**
Bending radius: 21 mm
Temperature Range: –25 °C...80 °C
Ø 2,1
**1**

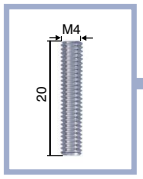
**Stainless Steel**
Bending radius: 50 mm
Temperature Range: –25 °C...250 °C*
Ø 4,9
**3**

**Metal/Silicone**
Bending radius: 35 mm
Temperature Range: –25 °C...180 °C
Ø 5,2
**4**

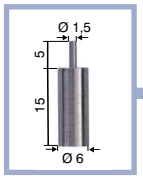
## 2 Endpot



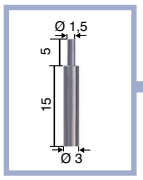

Aluminium **5 4**
Only with Brass Nickel-Plated, Stainless Steel and Metal/Silicone Jacket



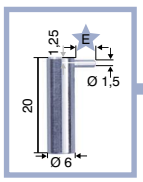

Aluminium **5 4**
Only with PVC jacket




Stainless Steel **0 3**




Stainless Steel **0 1**
Only with PVC jacket




Aluminium **3 5**

## 3

| Adapter | Sensor Type |
|---|---|
| 1 | UF __ |
| 5 6 | US __ |
| 2 5 6 | UV __ |
| 1 | UG __ |
| 2 | UC __ |
| 2 | UM __ |

## 4

**0 1** = 0,25 m
**0 2** = 0,5 m
**0 3** = 0,75 m
**0 4** = 1,0 m

The lengths are staggered in 0,25 m steps.

**Order number** **0 5 1 ? ? ? ? ? ?**

**Fiber bundle Ø 0,5 mm**

**Reflex mode**

E= 4 mm Standard
please specify other lengths

*** Fibers heat resistant up to 180 °C, up to 250 °C only with order number addition "T"!**

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