

# Glass Fiber-Optic Cable

## Reflex Mode

# 081-154-202

Part Number



- A broad range of applications are possible due to the modular system design
- Stock types deliverable at short notice

## Technical Data

### Optical Data

Fiber Bundle Diameter	0,8 mm
Range with Sensor Type U_88__	40 mm
Range with Sensor Type U_66__	20 mm
Range with Sensor Type U_55__	10 mm
Opening Angle	68 °
Fiber	Step Index
Fiber Diameter	50 μm
Fiber Distribution	statistical mixture

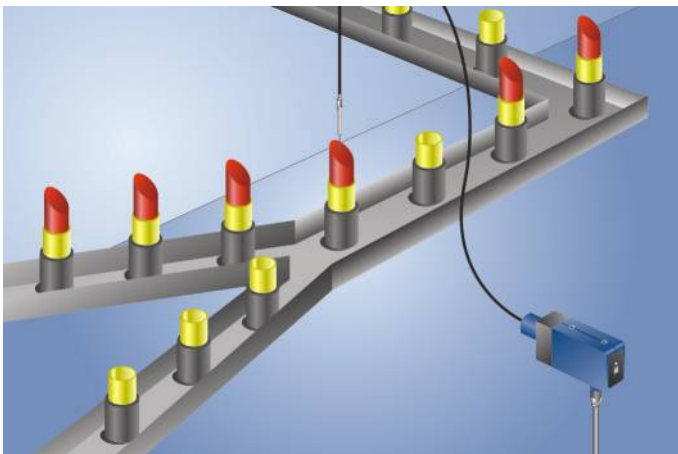
### Mechanical Data

Temperature Range	-25...80 °C
Bending Radius	21 mm
Fiber-Optic Length	0,5 m
Jacket Material	PVC
Material End Sleeve	Aluminum
End Sleeve No.	54
Light Emission	straight

Fiber-Optic Cable Adapter No.

02

Glass fiber optic cables are very flexible and can be used in applications with less space. Especially in applications with hot environment the metal casing fiber optic cables are the answer.



# Fiber Optic Cable Combination

## Choose your individual Glass Fiber Optic Cable

- 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 wenglor sensor.
- 2** Choose the jacket and the endpot.
- 3** Choose the right adapter for your wenglor 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
32 mm	36 mm	40 mm	50 mm
16 mm	18 mm	20 mm	25 mm
8 mm	9 mm	10 mm	12 mm
30 mm	33 mm	36 mm	40 mm

1	Sensor Type
←	U_88
←	U_66
←	U_55
←	ODX

### Jacket

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

**2** Brass Nickel-Plated  
Bending radius: 45 mm  
Temperature Range: -25 °C...250 °C\*  
Ø 4,9

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

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

### Endpot

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

**5 4** Aluminium  
Only with PVC jacket

**0 6** Stainless Steel  
Only with PVC jacket

**0 7** Stainless Steel

**3 2** Aluminium

### Adapter

Adapter	Sensor Type
<b>1</b>	UF
<b>5 6</b>	US
<b>2 5 6</b>	UV
<b>1</b>	UG
<b>2</b>	UC
<b>2</b>	UM
<b>3</b>	ODX

### Length Selection

**4**

<b>0 1</b>	= 0,25 m
<b>0 2</b>	= 0,5 m
<b>0 3</b>	= 0,75 m
<b>0 4</b>	= 1,0 m

The lengths are staggered in 0,25 m steps.

**Order number** 0 8 1 ? ? ? ? ? ? ?

Fiber bundle Ø 0,8 mm

Reflex mode

⊕ = 4 mm Standard  
please specify other lengths

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