



1) SMA 905

### Basic features

<b>Basic standard</b>	IEC 60947-5-2
<b>Reference base unit</b>	BFS 33M-GSS-..
<b>Use</b>	for fiber optic base units BFB
<b>Version</b>	M6, coaxial optics

### Environmental conditions

<b>Ambient temperature</b>	-55...70 °C
<b>Ambient temperature connection area</b>	Acc. to fiber optic sensor
<b>IP rating</b>	IP65

### Material

<b>Active surface, fiber arrangement</b>	Ring around individual fiber
<b>Fiber type material</b>	PMMA
<b>Housing material</b>	Stainless steel (1.4305)
<b>Material jacket</b>	PE

### Mechanical data

<b>Active surface, fibers</b>	Ø 0.25 mm (16x) Ø 1.0 mm
<b>Cable diameter D</b>	2.20 mm
<b>Cable length L</b>	1 m
<b>Cable, bending radius min.</b>	25 mm
<b>Connection type</b>	Cable, 1.00 m, PE
<b>Dimension</b>	Ø 6 x 17 mm
<b>Fiber optic cable, structure</b>	Single fiber in plastic jacket Fiber bundle in plastic jacket
<b>Length B min., without bending</b>	20.00 mm
<b>Mounting</b>	Nut M6x0.75
<b>Tensile load max. at 20 °C</b>	6 N (max. 3s)

### Range/Distance

<b>Range</b>	80 mm
<b>Rated operating distance S<sub>n</sub></b>	80 mm
<b>Real switching distance s<sub>r</sub></b>	80 mm

### Remarks

The cutting tool is included in the scope of delivery  
 order other accessories separately.

Cut cable to length: use suitable cutting tool. Make a single cut, vertical to cable axis. The cut quality can affect the switching distance.

Reference object (target): gray card, 200 x 200, 90 % remission, axial approach.

Route fiber optic cable so that no excessive tensile, compression or torsional forces are permitted. Observe permissible bending radiuses. Installation may affect the switching distance.

### Opto Symbols

