



1) SMA 905

Basic features

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

Environmental conditions

Ambient temperature	-55...70 °C
Ambient temperature connection area	Acc. to fiber optic sensor
Protection degree	IP65

Material

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

Mechanical data

Active surface, fibers	Ø 0.25 mm (16x) Ø 1.0 mm
Cable diameter D	2.20 mm
Cable length L	5 m
Cable, bending radius min.	25 mm
Connection type	Cable, 5 m, PE
Dimension	Ø 6 x 17 mm
Fiber optic cable, structure	Single fiber in plastic jacket Fiber bundle in plastic jacket
Length B min., without bending	20.00 mm
Mounting	Nut M6x0.75
Tensile load max. at 20 °C	6 N (max. 3s)

Range/Distance

Range	80 mm
Rated operating distance S_n	80 mm
Real switching distance s_r	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

