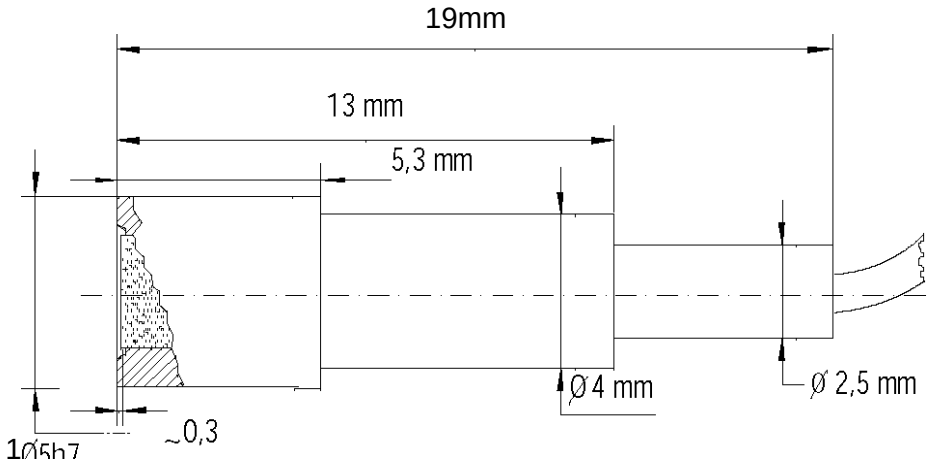
Fiber Collimator FK2...FK4

Dimensions



Specifications

SM-Collimator	Standard Fibre Construction	NA	Variations
FK2...4-630	3,8/125/900/2500 µm	0,11	
FK2...4-780	5/125/900/2500 µm	0,11	Different cladding
FK2...4-830	5/125/900/2800 µm	0,14	diameters
FK2...4-980	7/125/900/2500 µm	0,11	PM-Fibres
FK2...4-1300...1650	9/125/900/2800 µm	0,13	
MM-Collimator			
FK2...4-	GI 50/125/900/2800	0,2	
FK2...4-	GI 62,5/125/900/2800	0,275	Different cladding
FK2...4-	GI 100/140/900/2800	0,29	diameters
FK2...4-	SI 200/230/500	0,37	
FK2...4-	SI 200/280/560	0,22	

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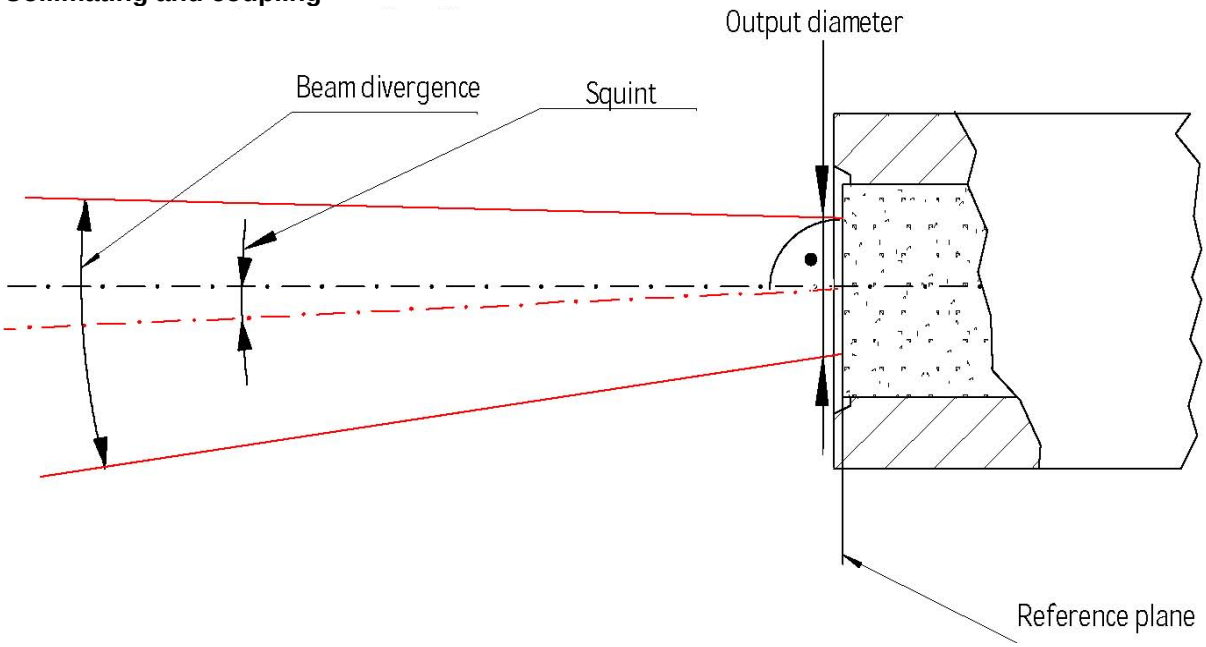
Collimating and coupling



Singlemode Collimator

Collimator Typ	Wavelength / nm	Beamdivergence / mrad	Squint / mrad	Outputdiameter / mm
FK2-670	630...690	≤ 6	≤10	0,5
FK3-670	630...690	≤ 2	≤10	0,9
FK4-670	630...690	≤ 1,5	≤10	1,25
FK2-830	750...850	≤ 7	≤10	0,46
FK3-830	750...850	≤ 3	≤10	0,9
FK4-830	750...850	≤ 1,5	≤10	1,25
FK2-1300	1250...1650	≤ 8	≤10	0,43
FK3-1300	1250...1650	≤ 3	≤10	0,8
FK4-1300	1250...1650	≤ 2	≤10	0,96

Multimode Collimator FK4

Fibre Typ	GI 50/125 NA=0,2	GI 62,5/125 NA=0,275	GI 100/140 NA=0,29	SI 200/230 NA=0,37	SI 400/440 NA=0,22
Divergence / mrad	≤ 10	≤ 12	≤ 15	≤ 30	≤ 60 ≅ 1°
Outputdiameter / mm	1,6	2,6	2,6	2,6	2,0

Angle / mrad	1,5	2	3	6	7	8	10	15	30	60
Angle / degree	0,026	0,035	0,052	0,1	0,12	0,14	0,17	0,26	0,52	1,05

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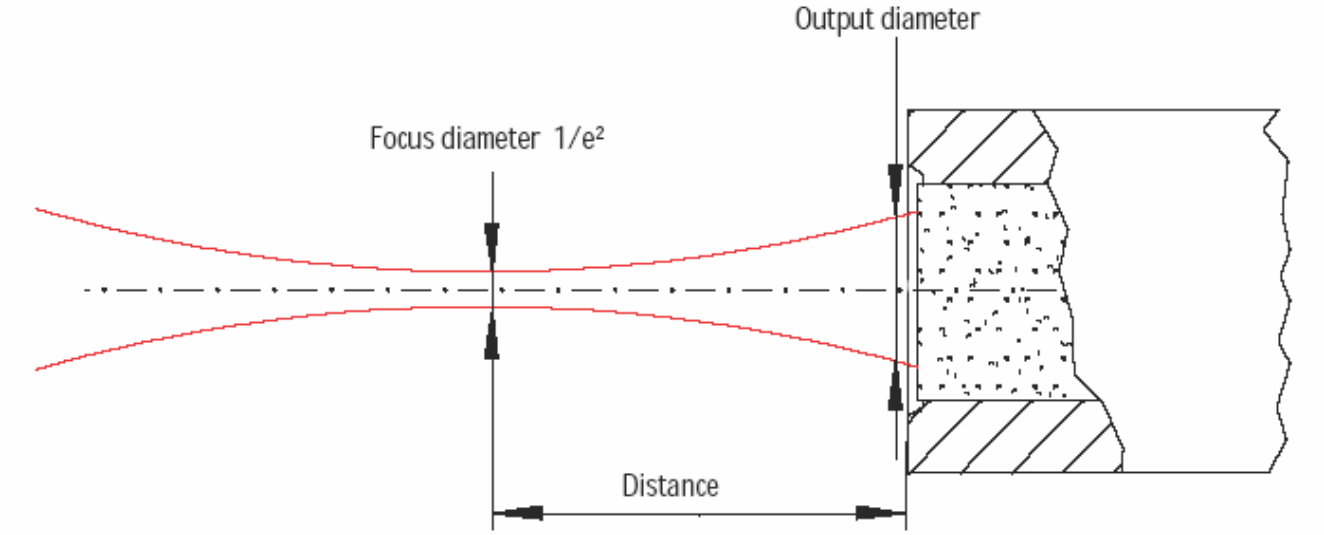
Focusing



Focus diameter in µm

Collimator	10 mm Distance	20 mm Distance	50 mm Distance	100 mm Distance
FK2-670	24	39	101	190
FK3-670	17	24	52	110
FK4-670	13	18	38	83
FK2-830	27	48	123	230
FK3-830	18	25	62	130
FK4-830	14	18	47	105
FK2-1300	70	105	220	420
FK3-1300	21	42	98	195
FK4-1300	16	28	70	140

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