



Product information

Application

Remote connections over long transmission distances and high transmission rates at 1310 nm and the 1550 nm wavelength. The geometry, optical and mechanical specifications correspond with all relevant national, european and international standards.

Transmission characteristics

wavelength	[nm]	1310	1550
typ. attenuation (cabled)	[dB/km]	0.34	0.20
max. attenuation (cabled)	[dB/km]	0.36	0.25
max. chromatic dispersion	[ps/nm x km]	3.5	18
nom. zero dispersion wavelength	[nm]	1312	1312
mode field (Petermann II)	[µm]	9.2 +/- 0.4	10.5 +/- 1.0
max. cable cut off wavelength λ_{cct}	[nm]	1250	1250
typ. polarisation modes dispersion coefficient	[ps/ km]	0.03	0.03
max. polarisation modes dispersion coefficient	[ps/ km]	0.5	0.5
max. attenuation nonlinearity	[dB]	0.05	0.05
refractive index		1.4675	1.4681

Geometry and mechanical characteristics

numerical aperture		0.13	0.13
core Ø	[µm]	8.3	8.3
cladding Ø	[µm]	125 +/- 1.0	125 +/- 1.0
max. core/cladding concentricity error	[µm]	0.5	0.5
max. coating non circularity	[%]	1.0	1.0
coating Ø	[µm]	245 +/- 5.0	245 +/- 5.0
max. cladding/coating concentricity error	[µm]	10	10
max. coating non circularity	[%]	6	6
min. fibre bending radius	[m]	4.0	4.0
nom. operating temperature range	[°C]	-60 bis +85	-60 bis +85
test load	[kpsi]	100	100