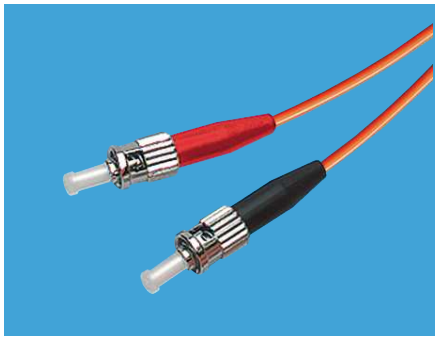
ST Connector



- Our Connectors are the key components for a low loss, broad-band data transmission in fiber optic networks.
- The constantly growing demand for higher data transmission capacities places exceptionally stringent qualitative criteria on present and future telecommunication networks. Interconnectivity components are the key for powerful fiber optic networks.
- Mechanical, optical and geometrical precision are the quality features necessary to reduce transmission losses to an absolute minimum at fiber transition. Our SM connectors are tuneable in 60° steps. Independent of the Grade all assemblies are 100% tested. Constant Quality Control ensures best performance.

Technical data sheet connector

Performance according IEC 61753-1

Optical performance, IL	Grade D	Grade Bm*
Insertion loss (IL) 97% IEC 61300-3-34	≤ 1.00dB	≤ 0.50dB (100%) ≤ 0.25dB (95%)
Insertion loss (IL) typical value IEC 61300-3-34	≤ 0.50dB	≤ 0.15dB
Grade-Bm* is not fully defined in IEC 61753-1.		

Optical performance, RL	Grade 3
Return loss (RL) IEC 61300-3-6	≥ 35dB

Performance according definition R&M

Definition IL / RL @ R&M	Grade D/3	Grade Bm/3
Insertion loss (IL) 97%	≤ 1.00dB	≤ 0.50dB (100%)
Insertion loss (IL) typical value	≤ 0.50dB	≤ 0.15dB
Return loss (RL)	≥ 35dB	≥ 35dB

Mechanical properties

Criteria	Date / value	Standard
Mating durability	500x minimum	IEC 61300-2-2
Cable retention	100N, 120s	IEC 61300-2-4
Fiber (Pigtail) retention	5N, 60s	IEC 61300-2-4
Vibration	10-55Hz, 1 oktave / min. 3 axis of 15 cycles, 0.5h / axis amplitude 0.75 mm	IEC 61300-2-1
Repeated bending patch cable	100 cycles -90° / 0° / +90° / 0° Load = 5N	IEC 61300-2-44
Repeated bending pigtail	100 cycles -90° / 0° / +90° / 0° Load = 0.2N	IEC 61300-2-44
Drop	1.5 m, 5 times	IEC 61300-2-12
Static side load patch cable	1N, 1h	IEC 61300-2-42
Static side load pigtail	0.2N, 5 min.	IEC 61300-2-42

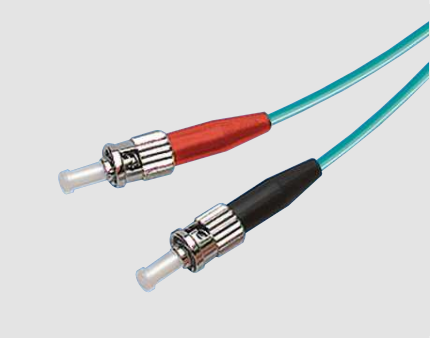
Climatic class

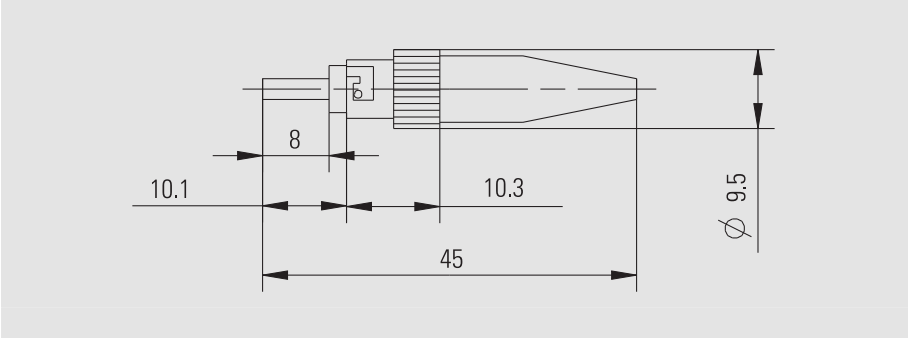
Criteria	Date / value	Standard
Cold	-25°C, 96h	IEC 61300-2-17
Dry heat	+70°C, 96h	IEC 61300-2-18
Change of temperature	-25°C to +70°C, 12 cycles	IEC 61300-2-22

Long term endurance

Criteria	Date / value	Standard
Heat resistance	+70°C, 1000h	IEC 61300-2-18
Damp heat	+40°C at 93%, 96h	IEC 61300-2-19

Dimensions connector





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Performance according IEC 61753-1

Optical performance, IL	Grade C / M
Sleeve material	Ceramic
Insertion loss (IL) delta IEC 61300-3-4	0.2dB

Mechanical properties

Criteria	Date / value	Standard
Mating durability	500x minimum	IEC 61300-2-2
Pull out force	70N	IEC 61300-2-6

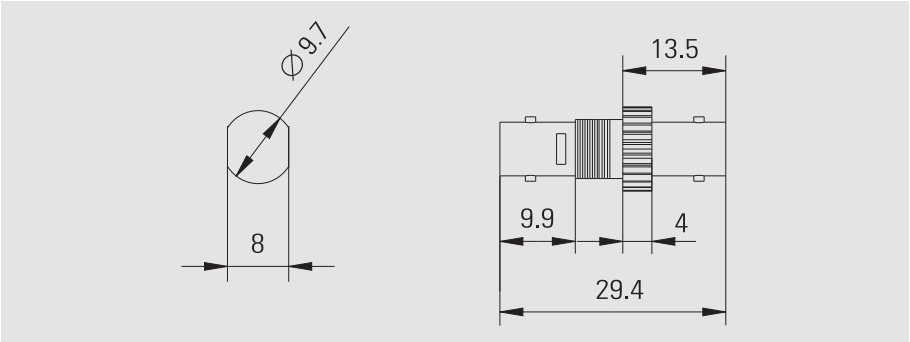
Climatic class

Criteria	Date / value	Standard
Cold	-25°C, 96h	IEC 61300-2-17
Dry heat	+70°C, 96h	IEC 61300-2-18
Change of temperature	-25°C to +70°C, 12 cycles	IEC 61300-2-22

Long term endurance

Criteria	Date / value	Standard
Heat resistance	+70°C, 1000h	IEC 61300-2-18
Damp heat	+40°C at 93%, 96h	IEC 61300-2-19

Dimensions adapter



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