# SC Connectors & Adapters

The SC-connector with a 2,5mm ceramic ferrules and snap (push-pull) coupling is used in many telecom and datacom applications.

Novobit SC connectors are NTT licensed with full ceramic ferrule and sleeve. They meet international standards IEC 61754-4 / TIA 604-3 and RoHS/REACH compliant. Performance standard IEC 50377-4-2 (includes IEC-61753, IEC 61754-4, IEC 61755-3-2).

It can be assembled with cables from ø0.6mm up to ø3.0mm. The Novobit SC connector-kit meet category E for extreme environment and may be used between -40 and + 85°C, and is available as simplex or duplex, as one-piece or multi-piece (duplex clip).
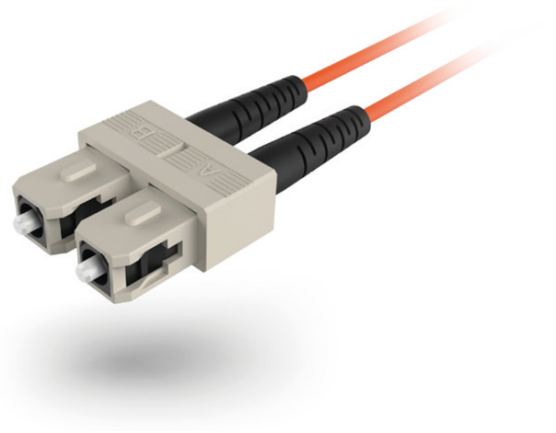
| Assembly Specifications		Single-mode		Multi-mode
Performance Class		Grade B	Grade C	Grade M
IL max. against reference [dB]		0.15	0.35	0.35
IL typical against reference [dB]		0.06	0.12	0.20
Return Loss [dB]	PC	≥ 45	≥ 45	≥ 27
	UPC	≥ 55	≥ 55	≥ 30
	APC	≥ 65	≥ 65	-
Fiber Height [nm]	PC	-50 to +50	-50 to +100	-50 to +100
	APC	-50 to +50	-100 to +100	-
Apex Offset [µm]		≤ 50	≤ 50	≤ 50
Radius [mm]	PC	5 to 25	5 to 25	5 to 25
	APC	5 to 12	5 to 12	–
Angle (°) of APC		8 ± 0.4	8 ± 0.4	-
Tensile Strength [N]		> 100	> 100	> 100
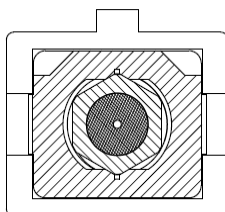
Novobit 30-degree step tuning
The ferrule can be positioned into 12 different positions offering 30° step tuning. This unique patented process and product enables Novobit to supply grade A connectors.

Novobit is certified according to ISO 9001 and ISO 14001.
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Connector Specification

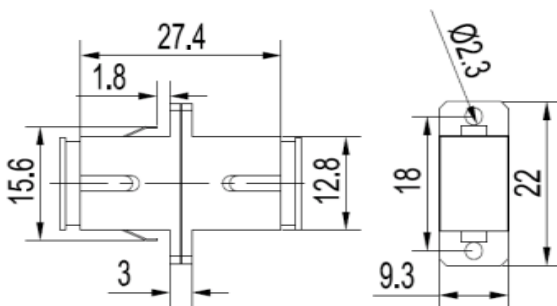| Housing	Plastic; blue, green, beige, customized colors on request
Ferrule Diameter	Zircona D: 2.5mm d: 125.3-126.3µm
Concentricity	≤1.0µm (SM, PC) ≤0.8µm (APC) ≤4.0µm (MM)
Tuning	30 degree steps
Cable Diameter	0.6 - 3mm
Flammability	UL 94 V-0
Humidity	95 %
Durability	≥1000 Matings
Tensile Strength	100N
RoHS/REACH	Compliant
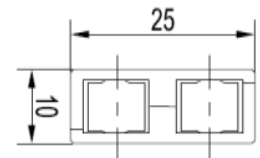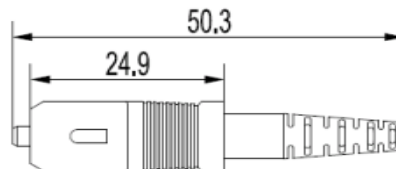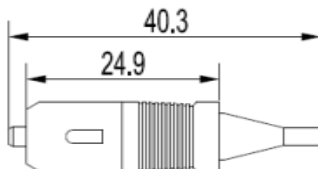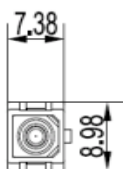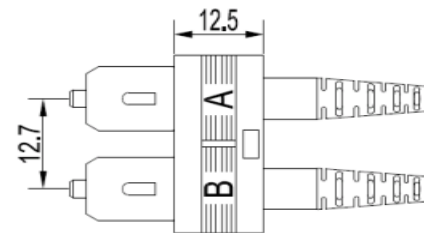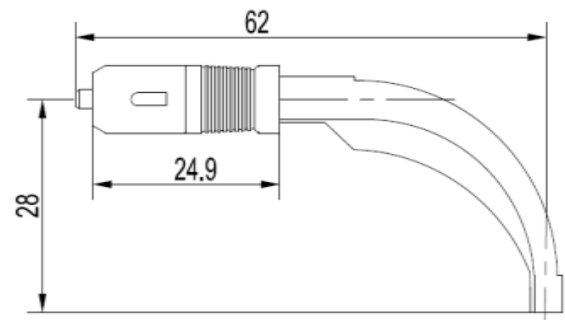
Pigtail

Patchcord

Duplex clip
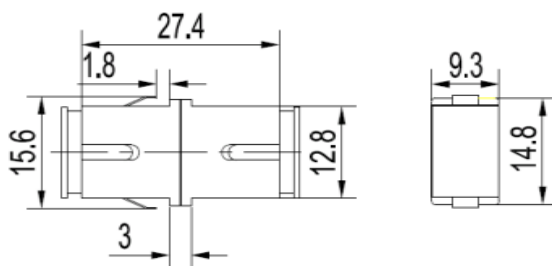
Without flange

Adapter Specifications:

Attenuation	< 0,2 dB
Repeatability	< 0.2 dB (1000 cycles)
Service life	> 1000
Temperature	-40 °C to +85 °C
Flammability	UL 94 V-0
Humidity	95 %
Sleeve material	Zirconia
Housing	Plastic; with or without flange; blue, green, beige
RoHS/REACH	Compliant

With flange

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