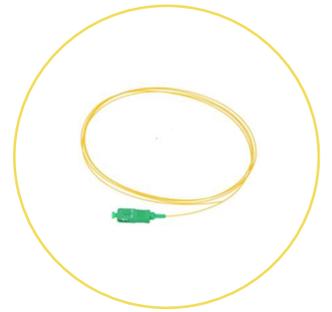
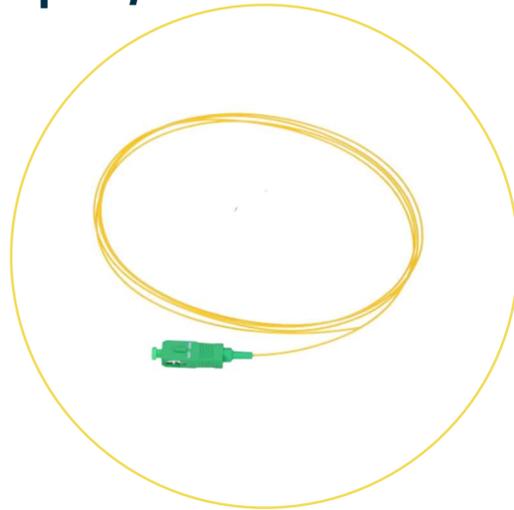


YOU SAY TELCO. WE SAY

Yeah.

Pigtail Singlemode Easy Strip SC/APC

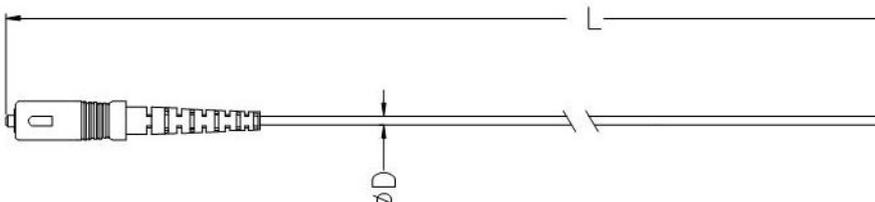


SC/APC pigtail series are mainly used in telecom network, especially in CATV. Of course, they also can be used in customer premises, Local Area Networks (LAN) or FTTX networks. The Insertion Loss requirement and the Return Loss requirement is kept at a high level to ensure a future proof network.

SC/APC pigtail series is manufactured in a cost-effective and rigid production process under controlled processes to ensure long-term stability and reliability.

1.0 General design

1.1 PIGTAIL SIZE AND DRAWING



① TOLERANCES OF LENGTH (mm)

$$L \leq 10000 \quad + 50 / - 50$$

② Standard lengths for pigtails are 1, 2, 3, 5 and 10 meters.

1.2 CONNECTOR

Color scheme		
Connector	House	Boot
SC/APC	Green	Green
Material		
House	Spring	Ferrule
Plastic	Stainless steel	Phosphor bronze and Zirconia

- ① The materials of connector are all in accordance with RoHS-directive.
- ② Connector and hood Plastic, non-flammable (UL94-V-0)
- ③ The dimension meet IEC 60874-14

Optical Performance	Grade A High Performance	Grade B Premium	Grade C Standard	Conformance
IL MAX/Master (Acceptance)	0.10 dB	0.15 dB	0.25 dB	IEC 61300-3-4
IL MAX/Random	0.20 dB	0.30 dB	0.40 dB	IEC 61300-3-34
Ave/Master	0.08 dB	0.12 dB	0.18 dB	IEC 61300-3-4
Ave/Random	0.08 dB	0.12 dB	0.18 dB	IEC 61300-3-34
Return Loss	55/70 dB	55/65 dB	55/65 dB	IEC 61300-3-6

1.3 Fiber

The fiber type: single-mode fiber G652D, G655, G657A/B, and customized.

1.4 Cable

The preferred cable color is yellow, other colors can be customized. \varnothing 0.9mm, tight secondary coating. It's made of flame retardant material.

2.0 Optical performance

Insertion Loss measurement test against reference connectors are intended to be used when quality conformance is required. Random mating attenuation test shall be used during qualification to ensure that the optical performance requirements are met.

	SC/APC
Insertion Loss(Reference plug)	$\leq 0.25\text{dB}$
Insertion Loss (Random mated)	$\leq 0.45\text{dB}$
Return Loss	$\geq 60\text{dB}$

3.0 Ferrule end-face geometry

Connectors are manufactured in a controlled process to ensure ferrule endface geometry after termination and polishing. All geometrical parameters are defined in IEC 61753-3-1 to meet specific requirement for fiber-to-fiber interconnection and ensure a stable optical performance.

	SC/APC
Radius of Curvature	7~25mm
Apex Offset	$\leq 50\mu\text{m}$
Fiber Height(Spherical)	-100~+50nm
Angular Offset	$8^{\circ} \pm 0.5^{\circ}$

4.0 Mechanical and Environmental performance

SC/APC			
Item		Test condition	Loss
Mechanical feature	Interchangeability	Free interconnection	$\Delta IL < 0.2db$
	Vibration	5-50Hz, 1.55mm amplitude	$\Delta IL < 0.2db$
Environmental characteristics	High temperature	+70°C for continuous 96 hours	$\Delta IL < 0.2db$
	Low temperature	-25°C for continuous 96 hours	$\Delta IL < 0.2db$
	Temperature cycle	-10°C-+60°C, 5 cycles	$\Delta IL < 0.2db$
	Humidity	+25°C-+65°C, 93%R.H, 96 hours	$\Delta IL < 0.2db$

5.0 Environment

5.1 Transport

SC/APC	
Temperature	-40...+80° C
Relative humidity	5 - 100%

5.2 Storage

SC/APC	
Temperature	-40...+70° C
Relative humidity	5 - 95%
Time	12 month

5.3 operation

SC/APC	
Temperature	-25...+70° C
Relative humidity	10 - 90%

Part Number	3000110000020
Descrição	Pigtail Monomodo G657A2 Grade B 1,0mt_amarelo
Part Number	3000110000010
Descrição	Pigtail Monomodo G657A2 Grade B 1,5mt_amarelo
Part Number	3000110000022
Descrição	Pigtail Monomodo G657A2 Grade B 2,0mt_amarelo
Part Number	3000110000008
Descrição	Pigtail Monomodo G652D Grade B 1,5mt_branco
Part Number	3000110000018
Descrição	Pigtail Monomodo G652D Grade B 2,0mt_branco
Part Number	3000110000014
Descrição	Pigtail Monomodo G657A1 Grade B 2,0mt_amarelo

End of Technical Specification
V8