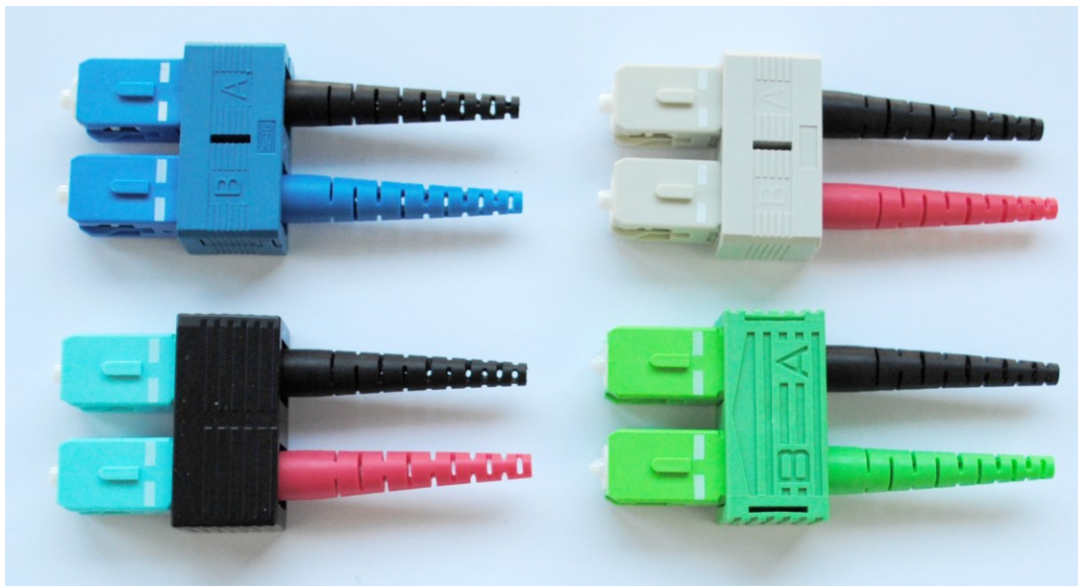


# SC Duplex Connector Kit Crimp Type



## T E C H N I C A L   S P E C I F I C A T I O N



# G E N E R A L

This specification covers the SC Duplex Connector Kit Crimp Type for singlemode and multimode applications according IEC 61754-4, IEC 60874-14 and TIA-604-3-B.

## M O D E L S   A V A I L A B L E

The SC Duplex Connector Crimp Type is available with the following crimps, boots sizes and colours:

<b>Cable Diameter</b>	<b>1.6 mm</b>	<b>2.0 mm</b>	<b>2.5 mm</b>	<b>3.0 mm</b>
<b>Boot: Standard Type</b>	2mm Boot	White	3mm Boot	Blue, Red, Black, Yellow, White and Light Green
<b>Boot: Slotted Type</b>	2mm Boot	Blue, Red, Black, Yellow, Beige and Light Green	3mm Boot	Beige
<b>Crimp</b>	Available	Available	Available	Available

### Special Boots

<b>Cable Diameter</b>	<b>1.6 mm</b>	<b>2.0 mm</b>	<b>2.5 mm</b>	<b>3.0 mm</b>
<b>90° Boot</b>	3mm Boot	3mm Boot	3mm Boot	Black

Optoplast SC Duplex connectors are supplied, as standard in the following formats:

	<b>Housing</b>	<b>Clip for Duplex Connectors</b>	<b>Boots for Duplex Connectors</b>
<b>Singlemode PC</b>	Blue Ral 5015	Blue	Black + Yellow (on yellow cable) Black + Blue (on Blue cable)
<b>Singlemode APC 8°</b>	Light Green Ral 6018 Dark Green Ral 6029	Light Green	Black + Light green
<b>Singlemode APC 9°</b>	Light Green Ral 6018	Light Green	Black + Red
<b>Multimode</b>	Beige Ral 1013	Beige	Black + Red
<b>Multimode OM3 - OM4 On Request</b>	Aqua Ral 6027	Black	Black + Red

All the above connectors are available multipiece or preassembled 1-piece.

Other colours are available on request.

Availability of Dust Cap with Latch.

Available ferrules: refer to Spec. N° FR-2.5-01-001.

For overall dimensions, special boots and dust caps details, please refer to Spec. N° KT-20-01.005.

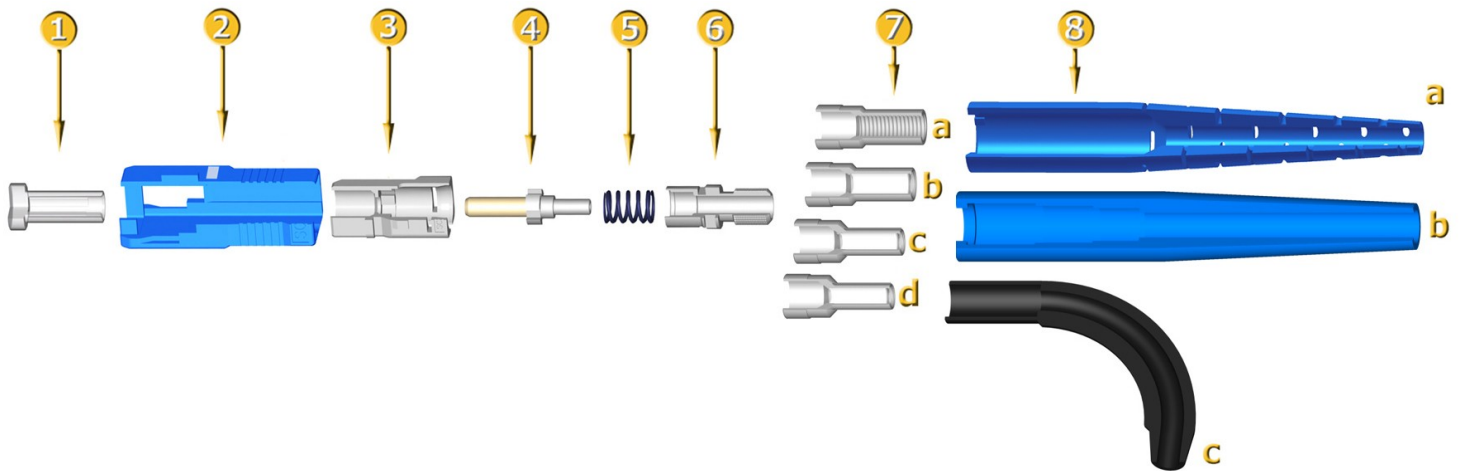
## M E C H A N I C A L C H A R A C T E R I S T I C S

Mating Durability	>500 connections	IEC61300-2-2
Cable Retention	100 N, 120s	IEC61300-2-4
900 µm Buffer Retention	5 N, 60s	IEC61300-2-4
Vibration	10 – 55 Hz , 1 octave / min. 3 axis of 15 cycles , 0.5h/axis amplitude 0.75mm	IEC61300-2-1
Repeated Bending Cable	100 cycles -90°/0°/+90°/0° Load = 5N	IEC61300-2-44
Repeated Bending 900 µm Buffer	100 cycles -90°/0°/+90°/0° Load = 0.2N	IEC61300-2-44
Cable Torsion	1.5kg -2.5kg for 2mm-3mm cable diameter	IEC60794-2-5
Drop	1.5m , 5 times	IEC61300-2-12
Static Side Load	1N , 1h	IEC61300-2-42
Static Side Load 900 µm Buffer	0.2N , 5min	IEC61300-2-42
Cold	-25°C , 96h	IEC61300-2-17
Dry Heat	+70°C , 96h	IEC61300-2-18
Change of temperature	-25°C to +70°C , 12 cycles	IEC61300-2-22

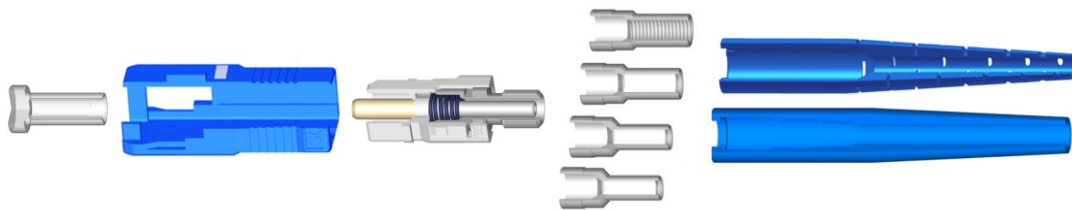
## P A C K A G I N G

Each separate component of the SC duplex crimp type connector is packed as standard in transparent plastic bags of 250 pieces. There is no logo nor any company marking on the bags. The ferrules are packed in blisters of 100 pieces each. Customized packaging and labelling solutions are available on request.

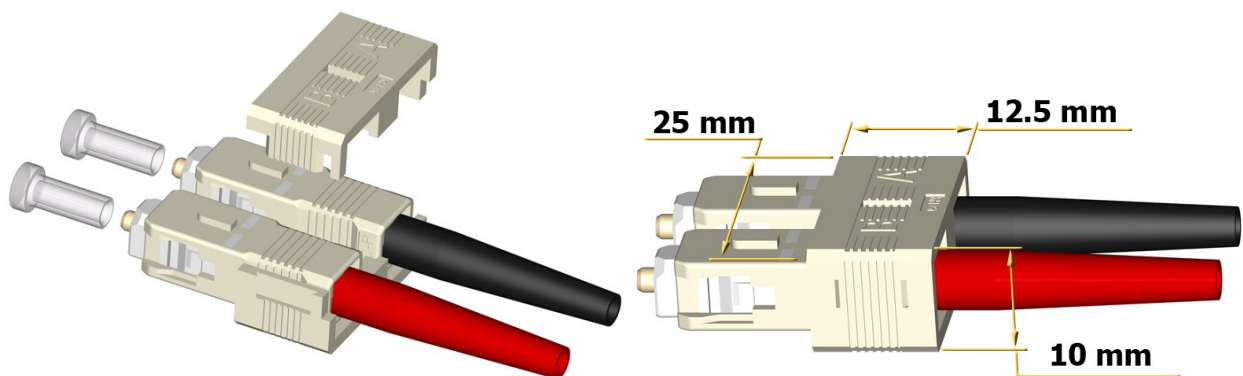
SC Crimp Type Connector Multipiece for Ø 1,6 - 2 - 2,5 - 3 mm cables



SC Crimp Type Connector 1-Piece for Ø 1,6 - 2 - 2,5 - 3 mm cables



Clip for SC Duplex Connector Crimp Type



# COMPONENTS AND MATERIALS

## SC Crimp Type Connector Multipiece for Ø 1,6 - 2 - 2,5 - 3 mm cables

N°	Component	Material	N°	Component	Material
1	Ferrule Cap	PE LD	7.a	Crimp Tube for Cable Ø 3 mm	Aluminium
2	External Housing	PBT 20% FRP	7.b	Crimp Tube for Cable Ø 2.5 mm	Nickel Plated Zinc Alloy
3	Internal Housing	PBT 20% FRP	7.c	Crimp Tube for Cable Ø 2 mm	Nickel Plated Zinc Alloy
4	Ferrule with flange	Zirconia + Steel	7.d	Crimp Tube for Cable Ø 1.6 mm	Nickel Plated Zinc Alloy
5	Spring	Stainless Steel	8.a	Boot for Cable Ø 1.6 - 2.0 mm	Polymer
6	Ferrule Holder	Nickel Plated Brass	8.b	Boot for Cable Ø 2.5 - 3.0 mm	Polymer
			8.c	90° Boot for Cable Ø up to 3 mm	Polymer

N°	Component	Material
	SC Connector Duplex Clip	PE MD

All components of the connector are RoHS and REACH compliant.

# END OF SPECIFICATION