## **Technical Data Sheet**

2 SMA STRAIGHT PLUG SEMI-RIGID .085 TINNED COPPER



PAGE 1/1 PART NUMBER R294C2312001 to 004 ISSUE 23/03/2023 SERIES SR C/A

CUSTOMER: -SPECIFICATION: Outside of the cryogenic Fridge

All dimensions are in mm

For more details, please see connectors TDS



Part number	Length (L)	tolerance	Marking	Cable assembly Shape
R294C2312001	250 mm	± 5	The marking can be changed on specific customer requests	Cable assemblies can be bent on specific customer request.
R294C2312002	500 mm	± 10		
R294C2312003	1000 mm	± 20		
R294C2312004	1500 mm	± 30		

Other length -> to be validated by the Engineering department.

CONNECTORS DESIGNATION R125052000 Connector 2: R125052000 Connector 1:

> SMA Straight Plug Solder type Stainless steel Gold 0,5 over nickel 2

Torque wrench: 110 N.cm

SMA Straight Plug Solder type Stainless steel Gold 0,5 over nickel 2 Torque wrench: 110 N.cm

SEMI-RIGID .085 TINNED COPPER CABLE DESIGNATION

PROTECTIVE JACKET OUTER DIAMETER

mm max

MARKING Black marking on white heatshrink sleeve

ELECTRICAL CHARACTERISTICS

50 Ohms Characteristic impedance

Frequency band : **DC - 18** GHz

**750** Veff Dielectric Withstanding Voltage:

Insulation Resistance **5000** Mohms

Max insertion loss :

Part number	Max Insert loss		
R294C2312001	<b>1,10</b> dB	at 18GHz at 20°C	
R294C2312002	<b>1,90</b> dB	at 18GHz at 20°C	
R294C2312003	<b>3,45</b> dB	at 18GHz at 20°C	·
R294C2312004	5.00 dB	at 18GHz at 20°C	

Max return loss:

Part number		Max return loss
R294C2312001	<b>1,30</b> :1	(-17,7 dB) in the frequency band DC - 18GHz
R294C2312002	<b>1,30</b> :1	(-17,7 dB) in the frequency band DC - 18GHz
R294C2312003	1,30 :1	(-17,7 dB) in the frequency band DC - 18GHz
R294C2312004	1,30 :1	(-17,7 dB) in the frequency band DC - 18GHz

## MECHANICAL CHARACTERISTICS

Min. Static bending radius : 3,17 mm Min. Dynamic bending radius: N/A mm Life (Connectors): 500 Cycles

ENVIRONMENTAL CHARACTERISTICS

Temperature range : -40 to +105 °C