

PAGE 1/1

ISSUE

23/03/2023

SERIES

SR C/A

PART NUMBER

R294C2312017 to 019

CUSTOMER : -

SPECIFICATION :

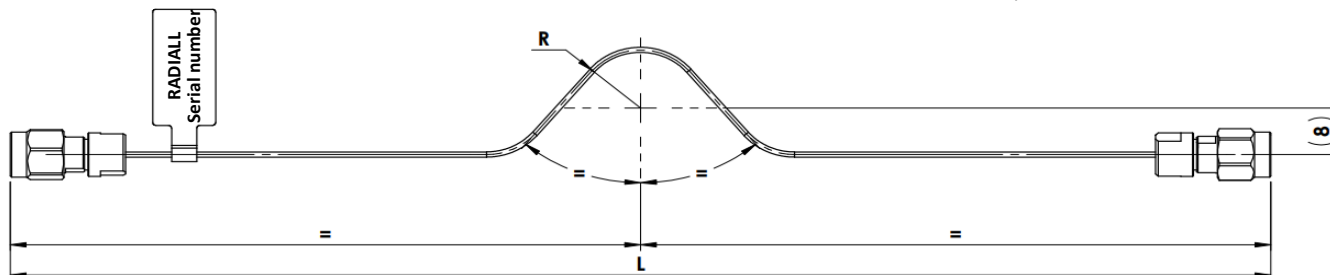
Inside of the cryogenic Fridge
Recommended shape for 10mK application

ISSUE : -

DATE : -

All dimensions are in mm

For more details, please see connectors TDS



Part number	Length (L)	Bending Radius	Marking
R294C2312017	100 mm	10 mm	The marking can be change on specific customer requests
R294C2312018	200 mm	10 mm	
R294C2312019	450 mm	20 mm	

Length "L" between 100mm and 450mm adjustable according to customer request.

CONNECTORS DESIGNATION

Connector 1:

R125052C10

SMA Straight Plug Solderless

Beryllium Copper NPGR

Torque wrench : 100 N.cm

Connector 2:

R125052C10

SMA Straight Plug Solderless

Beryllium Copper NPGR

Torque wrench : 100 N.cm

CABLE DESIGNATION

Semi Rigid .034" Silver Plated CuproNickel Inner / CuproNickel Outer conductor

PROTECTIVE JACKET

OUTER DIAMETER

0,90 mm max

MARKING

Black marking on white label (to be removed before installation)

ELECTRICAL CHARACTERISTICS

Characteristic impedance

50 Ohms

Frequency band :

DC - 18 GHz

Dielectric Withstanding Voltage:

750 Veff

Insulation Resistance

5000 Mohms

Max insertion loss :

Part number	Max Insert loss	
R294C2312017	1,90 dB	at 18GHz at 20°C
R294C2312018	3,50 dB	at 18GHz at 20°C
R294C2312019	7,65 dB	at 18GHz at 20°C

Max return loss :

Part number	Max return loss	
R294C2312017	1,40 :1	(-15,57 dB) in the frequency band DC - 18GHz
R294C2312018	1,40 :1	(-15,57 dB) in the frequency band DC - 18GHz
R294C2312019	1,40 :1	(-15,57 dB) in the frequency band DC - 18GHz

MECHANICAL CHARACTERISTICS

Recommended bending radius :

10 mm

For lower bending radius requierment please ask

Min. Dynamic bending radius :

N/A mm

Life (Connectors) :

100 Cycles

ENVIRONMENTAL CHARACTERISTICS

Temperature range :

Tested at 10mk

RoHS status :

RoHS3 compliant

In case of difference between the performances announced into the TDS and the customer specification, the TDS is the document of reference for the order.

This document contains proprietary information and such information shall not be disclosed to any third party for any purpose whatsoever or used for manufacturing purposes without prior written agreement from Radiall. The data defined in this document are given as an indication, in the effort to improve our products; we reserve the right to make any changes judged necessary.