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ISSUE

23/03/2023

SERIES

SR C/A

PART NUMBER

R294C2312014 to 016

CUSTOMER : -

SPECIFICATION :

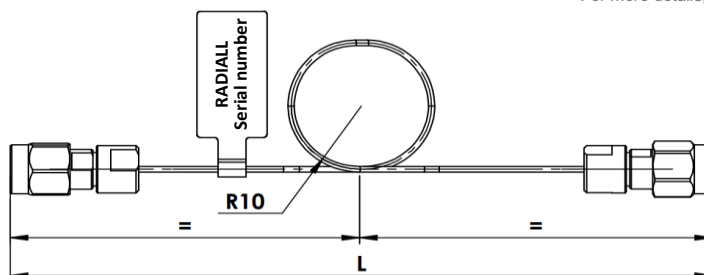
Inside of the cryogenic Fridge
Recommended shape for 10mK application

ISSUE : -

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All dimensions are in mm

For more details, please see connectors TDS



Part number	Length (L)	Marking
R294C2312014	100 mm	The marking can be change on specific customer requests
R294C2312015	200 mm	
R294C2312016	450 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

0,90 mm max

OUTER DIAMETER

MARKING

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

ELECTRICAL CHARACTERISTICS

Characteristic impedence

50 Ohms

Frequency band :

DC - 18 GHz

Dielectric Withstanding Voltage:

750 Veff

Insulation Resistance

5000 Mohms

Max insertion loss :

Part number	Max Insert loss	
R294C2312014	3,00 dB	at 18GHz at 20°C
R294C2312015	4,50 dB	at 18GHz at 20°C
R294C2312016	8,35 dB	at 18GHz at 20°C

Max return loss :

Part number	Max return loss	
R294C2312014	1,40 :1	(-15,57 dB) in the frequency band DC - 18GHz
R294C2312015	1,40 :1	(-15,57 dB) in the frequency band DC - 18GHz
R294C2312016	1,40 :1	(-15,57 dB) in the frequency band DC - 18GHz

MECHANICAL CHARACTERISTICS

Recommanded bending radius :

10 mm

For lower bending radius requirerment 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.

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