



All dimensions are in mm; tolerances: $\pm 3\text{mm}$ for $A \leq 300\text{mm}$; $\pm 1\%$ for $A > 300\text{mm}$

Available variants

Type	max. Insertion loss at 70 GHz	Marking	Weight (g) / pce
LU5-103-XXX	$\leq 0.00639\text{ dB/mm} * A\text{ mm} + 0.90\text{ dB}$	ROSENBERGER YYY- LU5-103-XXX FAC-RRRRRRR ssss	$0.1641\text{ g/mm} * A\text{ mm} + 29\text{ g}$

XXX – length in mm = A

WW – week

YYYY – year

ssss – serial no.

FAC – Factory Code

RRRRRRR – lot nr.

Note:

max. Insertion Loss:

First constant = Cable attenuation in dB /mm; Second Constant = Connector left and Connector right +needed Adaptor

Weight:

First constant = Cable and armour weight per mm; Second Constant = Connector left and Connector right weight per pce

Assembly parts

Connector left	RPC-1.85 plug	08S128-2U5S3
Connector right	RPC-1.85 plug	08S128-2U5S3
Cable	RTK 092-70	
Armour	T1 armour - outer diameter 9.3mm (Polyurethane jacket over braid / stainless steel spiral)	

Electrical data

Impedance	50 Ω
Frequency	DC to 70 GHz
Return loss ¹	$\geq 14\text{ dB}$, DC to 70 GHz
Insertion loss ¹	see table available variants

Individual testing and documentation:

Measurement plot with all 4 S-Parameters (S11; S22; S21; S12) is included with the cable assembly and on the backside the care and handling instruction is printed. Measurement adaptors used are mentioned in the commentary field.

¹ Return Loss and Insertion Loss includes the measurement adaptor

Technical Data Sheet

Rosenberger

Cable assembly

RPC-1.85 Plug / Plug – RTK 092-70 – T1 Armour

LU5-103-XXX

Mechanical data

Minimum bend radius:

Single 12.7 mm
Multiple 38.1 mm

Environmental data

Temperature range -40°C to +80°C
RoHS compliant

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Martin Moder	08.02.12	Herbert Babinger	07.05.15	c00	15-0565	A. Youmsi Mou	07.05.15

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