



All dimensions are in mm; tolerances: $\pm 3\text{mm}$ for $A \leq 300\text{ mm}$; $\pm 1\%$ for $A > 300\text{ mm}$
*) If length "A" < 150 mm marking is mount centric $\pm 5\text{ mm}$

Available variants

Type	max. Insertion loss at 26.5 GHz	Marking	Weight (g) / pce
LU7-133-XXX	$\leq 0.00203\text{ dB/mm} * A\text{ mm} + 0.40\text{ dB}$	ROSENBERGER YYYY-WW LU7-133-XXX FAC-RRRRRRR ssss	$0.0656\text{ g/mm} * A\text{ mm} + 31.2\text{ g}$

XXX – length in mm = A Standard lengths: 500, 1000, 1500, 2000mm
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-3.50 plug	03S121-2U7S3
Connector right	RPC-3.50 plug	03S121-2U7S3
Cable	RTK 162	

Electrical data

Impedance	50 Ω
Frequency	DC to 26.5 GHz
Return loss ¹	$\geq 19\text{ dB}$, DC to 26.5 GHz
Insertion loss ¹	see table available variants
RF-leakage	$\geq 100\text{ dB}$ up to 1 GHz

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 - Standardportfolio
RPC-3.50 Plug / RPC-3.50 Plug – RTK 162 Cable

LU7-133-XXX

Mechanical data

Minimum bend radius:
Single 9.65 mm
Multiple 50.8 mm

Environmental data

Temperature range -40°C to +85°C
RoHS compliant

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
F. Reiner	13.08.18	M.Moder	13.08.18	b00	18-s287	M.Ruf	13.08.18

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