



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

RF_35/09.14/6.2 Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

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: Single9.65 mm Multiple50.8 mm Environmental data Temperature range-40°C to +85°C RoHScompliant							
While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.							
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
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de				Tel. : +49 8684 18-0 Email : info@rosenberger.de			Page 2 / 2