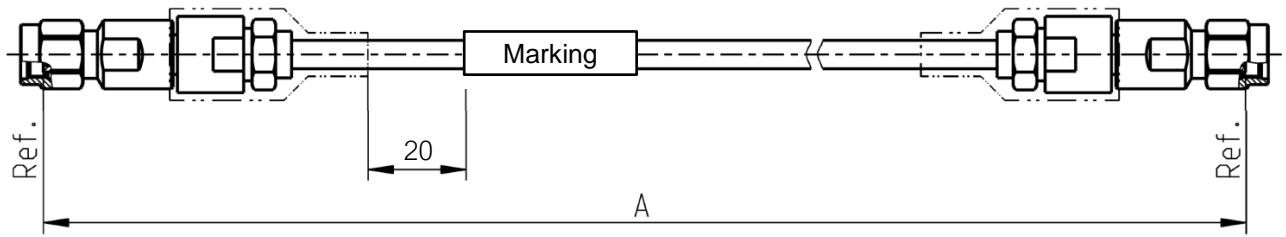


Technical Data Sheet

Rosenberger

Cable assembly
RPC-3.50 / RPC-3.50 – RTK 052

LA3-03S1-03S1-XXXXXL2A



All dimensions are in mm; tolerances:
 ≤ 100 : $XXX \pm 2.0$; > 100 to ≤ 1500 : $XXX \pm 5.0$; > 1500 to ≤ 3000 : $XXX \pm 10.0$; > 3000 : $\pm 1.5\%$

Available variants

Type	Max Insertion Loss	Marking	Weight (g) / pce
LA3-03S1-03S1-XXXXXL2A	$\leq 0.00154 \text{ dB/mm} * A$ mm + 0.4 dB	Rosenberger NA wwyy LA3-03S1-03S1-XXXXXL2A WWWWWW-SSS	0.0591 g/mm * A mm + 23.8 g

XXXXX – end to end length in mm = A ww – week yy – year WWWWWW-SSS – lot code-serial no.
 A ≥ 102 mm: Also marked with delay value in picoseconds and pair or lot ID

Note: max Insertion Loss:
 First Constant = Cable attenuation in dB/mm; Second Constant = Connector left and Connector right

Weight:
 First Constant = Cable weight per mm; Second Constant = Connector left and Connector right per pce

Assembly parts

Connector left	RPC-3.50 plug	03S121-2A3S3
Connector right	RPC-3.50 plug	03S121-2A3S3
Cable	RTK 052	

Electrical data

Impedance	50 Ω
Frequency	DC to 26.5 GHz
Return Loss ¹	≥ 19 dB, DC to 26.5 GHz
Insertion Loss ¹	see table available variants
Delay Matching	L2A : lot-matched within 2.0ps measured at midband, lots ≤ 6 pcs

¹ Return Loss and Insertion Loss includes the measurement adaptor

Mechanical data

Minimum bend radius:	
Single	12.7 mm
Multiple	50.8 mm

Environmental data

Temperature range	-40°C to +125°C
RoHS	compliant

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
J. Havener	12/15/2022	J. Havener	12/15/2022	100	Preliminary	J. Havener	12/15/2022
Rosenberger North America P.O. Box 309 Akron, PA USA 17501 www.rosenbergerna.com				Tel. : +1.717.859.8900 Fax : +1.717.859.7044 Email : info@rosenbergerna.com			Page 1 / 1

PROPRIETARY AND CONFIDENTIAL
 This data sheet is the property of Rosenberger North America. By acceptance of this document you agree that all the rights to drawings, specifications, processes and other data therein, as well as the proprietary and novel features of the subject matter, are reserved by Rosenberger North America and are disclosed in confidence. They are not to be manufactured, used, sold or disclosed to others, nor are devices embodying such features or information derived from these disclosures to be used or disclosed, unless and until expressly authorized by Rosenberger North America. These drawings, specifications, processes, etc., are and remain the property of Rosenberger North America, and are not to be copied or reproduced without permission.