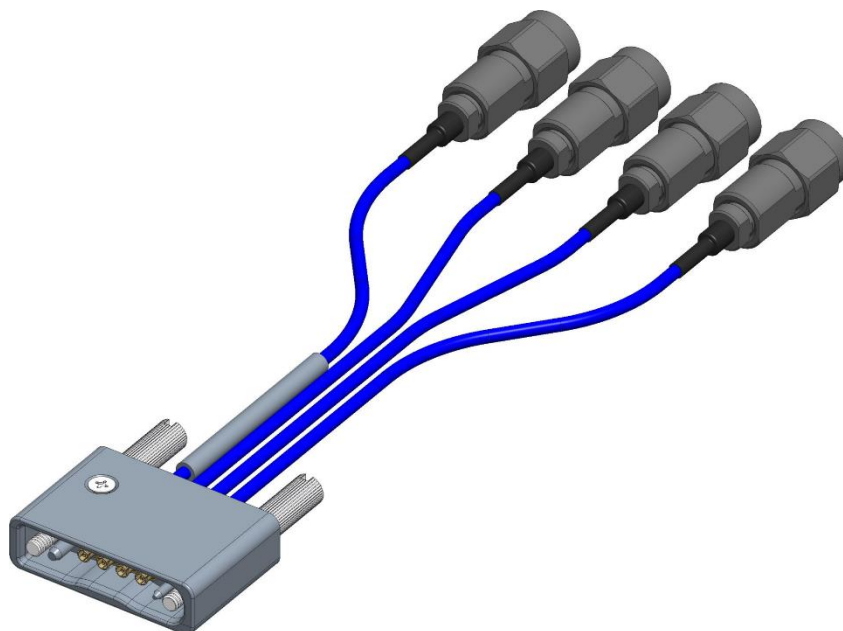
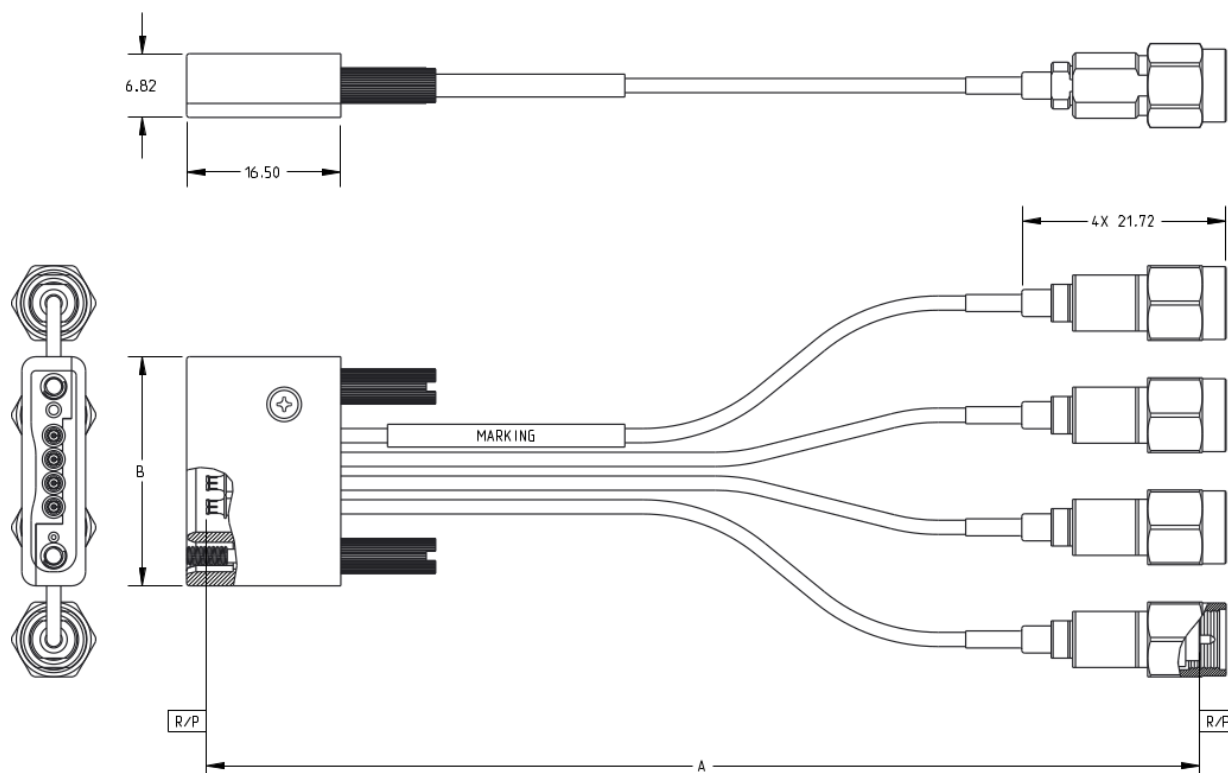


Technical Data Sheet

Rosenberger

Cable assembly
SMPX / RPC-2.92 – RTK 047-K2

H70U-W2YY-02S1-XXXXX



All dimensions are in mm; tolerances:

$\pm 3.0\text{mm}$ for $A \leq 100$: $XXX \pm 2.0$; > 100 to ≤ 1500 : $XXX \pm 5.0$; > 1500 to ≤ 3000 : $XXX \pm 10.0$; > 3000 : $\pm 1.5\%$

Draft	Date	Approved	Date
L. Weber	4/22/2024	J. Havener	4/22/2024

Rev	Engineering Change Number	Name	Date
302	Updated Marking	D.Hoeschen	12/04/2024

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 / 2

PROPRIETARY AND CONFIDENTIAL
This data sheet is the property of Rosenberger North America Akron, LLC. 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 Akron, LLC, 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 Akron, LLC. These drawings, specifications, processes, etc., are and remain the property of Rosenberger North America Akron, LLC, and are not to be copied or reproduced without permission.

Technical Data Sheet

Rosenberger

Cable assembly
SMPX / RPC-2.92 – RTK 047-K2

H70U-W2YY-02S1-XXXXX

Available Variants

Type	Max Insertion Loss	Marking
H70U-W2YY-02S1-XXXXX	40 GHz: $\leq 0.0081 \text{ dB/mm} \cdot A \text{ mm} + 0.51 \text{ dB}$	Rosenberger NA H70U-W2YY-02S1-XXXXX WWWWWWW-SSS wwwy
H70U-W2YY-02S1-00150	DC to 14 GHz: 1.00 dB max 14 to 26.5 GHz: 1.50 dB max 26.5 to 40 GHz: 1.75 dB max	Rosenberger NA H70U-W2YY-02S1-00150 WWWWWWW-SSS wwwy

YY – number of ports

XXXXX – end to end length in mm = A

WWWWWWW – lot code

ww – week

yy – year

SSS – serial no.

Note: max Insertion Loss:

First Constant = Cable attenuation in dB/mm; Second Constant = Connector left and Connector right

Available SMPX Variations

Connector Left	Number of Ports	Width (B) in (mm)	SMPX Weight in (g)	Total Assembly Weight
W2K101-270L3-02	2	17.84	11.3	0.0116 g/mm + 11.3 g + 9.0 g
W2K101-270L3-04	4	24.52	12.9	0.0232 g/mm + 12.9 g + 18.0 g
W2K101-270L3-08	8	34.68	15.2	0.0464 g/mm + 15.2 g + 36.0 g
W2K101-270L3-16	16	55.00	19.8	0.0928 g/mm + 19.8 g + 72.0 g

Weight:

First Constant = Cable weight per mm; Second Constant = SMPX Connector Left; Third Constant = Precision Connectors Right

Assembly Parts

Connector left	SMPX female	per Available Variants table
Connector right	RPC-2.92 male	
Cable	RTK 047-K2	Blue
Strain relief	Heat Shrink Tube	Black

Electrical Data

Impedance	50 Ω
Frequency	DC to 40 GHz
Return Loss ¹	$\geq 20 \text{ dB}$, 50 MHz to 6 GHz $\geq 18 \text{ dB}$, 6 to 12 GHz $\geq 16 \text{ dB}$, 12 to 20 GHz $\geq 15 \text{ dB}$, 20 to 30 GHz $\geq 13 \text{ dB}$, 30 to 40 GHz
Insertion Loss ¹	see table Available Variants
Delay Matching	pair-matched within 1.0 ps

¹ Return Loss and Insertion Loss includes the measurement adaptor

Mechanical Data

Minimum bend radius:	3.2 mm
----------------------	--------

Environmental Data

Temperature range	-40°C to +120°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
L. Weber	4/22/2024	J. Havener	4/22/2024	302	Updated Marking	D.Hoeschen	12/04/2024

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
2 / 2

PROPRIETARY AND CONFIDENTIAL
 This data sheet is the property of Rosenberger North America Akron, LLC. 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 Akron, LLC, 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 Akron, LLC. These drawings, specifications, processes, etc., are and remain the property of Rosenberger North America Akron, LLC, and are not to be copied or reproduced without permission.