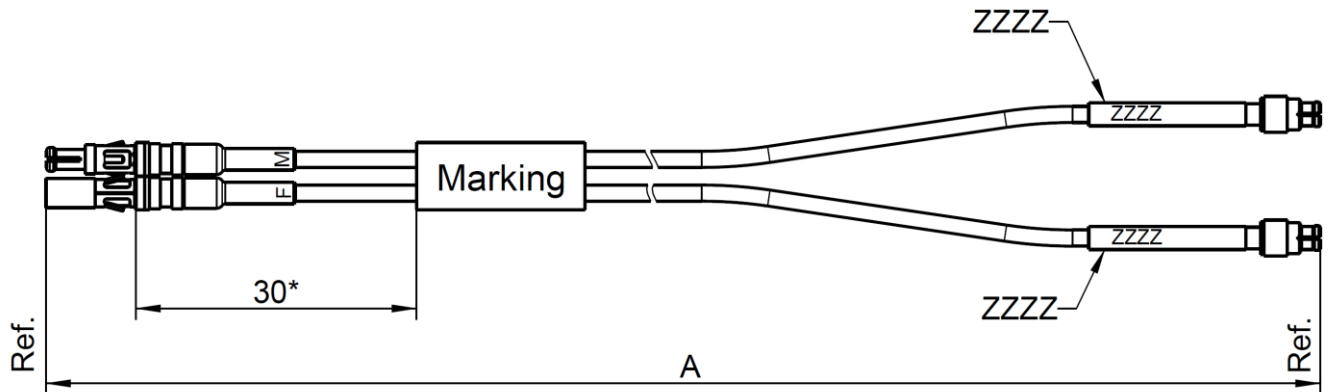


# Technical Data Sheet

# Rosenberger

**Cable Set**  
Mini Coax Plug / Jack – Mini-SMP Jack – RTK 047

## L99-A0487-XXX-Y



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

### Available variants

Type	max. Insertion loss at 40 GHz	Marking	Weight (g) / pce
L99-A0487-XXX-Y	$\leq 0.0083\text{ dB/mm} * A\text{ mm} + 1.2\text{ dB}$	ROSENBERGER YYY-YY L99-A0487-XXX-Y FAC-RRRRRRR	$0.011\text{ g/mm} * A\text{ mm} + 1.4\text{ g}$

XXX – length in mm = A

Y – pair matching (non, 2ps)

WW – week

YYYY – year

zzzz – individual serial no.

FAC – Factory Code

RRRRRRR – lot no.

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	Mini Coax plug	23S104-270L5
Connector left	Mini Coax jack	23K104-270L5
Connector right	Mini-SMP jack	18K101-270L5
Cable	RTK 047	

### Assembly parts

Assembly instruction	23 MV-A008
----------------------	------------

**Cable Set**

Mini Coax Plug / Jack – Mini-SMP Jack – RTK 047

**L99-A0487-XXX-Y**

**Electrical data**

Impedance 50 Ω  
 Frequency DC to 40 GHz  
 Return loss<sup>1</sup> ≥ 14 dB, DC to 20 GHz  
 ≥ 10 dB, 20 GHz to 40 GHz  
 Insertion loss<sup>1</sup> see table available variants  
 Phasematched by pairs depending on Part Number  
 non – non matched  
 2ps – max. 2 ps delay difference

Individual testing

The S-Parameters (S11, S22, S21, S12) will be tested and the cable pairs are measured fore phase matching.:

<sup>1</sup> Return Loss and Insertion Loss includes the measurement adaptor

**Mechanical data**

Minimum bend radius:  
 Single 5.1. mm  
 Multiple 10.2 mm

**Housing**

2 Channel 23Z121-008  
 4 Channel 23Z121-007  
 6 Channel 23Z121-004  
 8 Channel 23Z121-005

**Tooling**

Extraction tool 23W100-000

**Environmental data**

Temperature range -40°C to +115°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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
F. Reiner	19.09.19	F. Reiner	08.03.23	b00	23-0367	J. Rohloff	08.03.23

Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany <a href="http://www.rosenberger.com">www.rosenberger.com</a>				Tel. : +49 8684 18-0 Email : <a href="mailto:info@rosenberger.com">info@rosenberger.com</a>			Page 2 / 2
--	--	--	--	--	--	--	---------------