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OSR-730-04  
 RNA Datasheet1 Rev-  
 6/26/19

<b>Technical Data Sheet</b>	<b>Rosenberger</b>
<b>Cable assembly</b> 2.92 mm(m) / 2.92 mm(m) – APSK 0F 2.92 mm(m) / 2.92 mm(f) – APSK 0F	<b>APSK-0F-XXXXX-DD</b> <b>APSK-0F-XXXXX-DE</b>



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

### Available variants

Type	Max Insertion Loss	Marking	Weight (g) / pce
APSK-0F-XXXXX-DD 2.92 M-M, - DE = 2.92 M-F	$\leq (.57\sqrt{F} + .023F)L + .08\sqrt{F}$	ROSENBERGER YYWW APSK-0F-XXXXX-YY	0.84.7g/mm * L +21 g

XXXXX – length in mm = A, L in Meters  
 WW – week YY – year

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

### Assembly parts

Connector, left	2.92 mm(m)	02S121-271S3
Connector, right	2.92 mm(m) or 2.92 (f)	02S121-271S3 or 02K121-271S3
Cable	Cable Type	APSK – 0F cable
Armor	Description/construction	Integral Armor, steel spiral with black fabric cover
Strain Relief	Color	Red over black Heat shrink.

### Electrical data

Impedance	50 Ω
Frequency	DC to 40 GHz
Delay Matching	PY: Not applicable LY: Not applicable
Intermodulation (3rd order @ 2 x 20 W)	Not applicable
Return Loss <sup>1</sup>	≥ 16 dB, DC to 50 GHz
Insertion Loss <sup>1</sup>	≥ 18 dB, DC to 30 GHz see table above.

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

### Mechanical data

Minimum bend radius	
Single	25.4 mm
Multiple	35.4 mm
Armor diameter	Ø5.7 mm
Crush strength	43 N/mm
Diameter, nominal	5.77mm (.305 inches)

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
B.Cardwell	4/14/2020	B.Cardwell	4/14/2020	100	20_e000	B.Cardwell	4/14/2020
Rosenberger North America P.O. Box 309 Akron, PA USA 17501 <a href="http://www.rosenbergerna.com">www.rosenbergerna.com</a>				Tel. : +1.717.859.8900 Fax : +1.717.859.7044 Email : <a href="mailto:info@rosenbergerna.com">info@rosenbergerna.com</a>			Page 1 / 2

## Technical Data Sheet

# Rosenberger

Cable assembly  
2.92 mm(m) / 2.92 mm(m) – APSK 0F  
2.92 mm(m) / 2.92 mm(f) – APSK 0F

**APSK-0F-XXXXX-DD**  
**APSK-0F-XXXXX-DE**

### Environmental data

Temperature range -40°C to +85°C  
IP Rating N.A.  
RoHS Compliant

### Additional Electrical Specifications

Return Loss Stability(min): -30 dB  
Velocity of Propagation 85%  
Shielding effectiveness >90 dB @ 1 Ghz

### Phase Stability

Parameter	1 Ghz	26.5 Ghz	40 Ghz	-
Insertion Loss stability (max @ 25°C)	+/- .05 dB/m	3.5 dB/m	5.4 dB/m	-
Phase stability, natural curl	+/- 1°	+/- 6°	+/- 9°	-
Phase stability, reverse curl	+/- 1°	+/- 6°	+/- 9°	-
Return Loss stability natural curl	>30 dB	>30 dB	>30 dB	-
Return Loss stability reverse curl	>30 dB	>30 dB	>30 dB	-

### Packaging Information

Product shipped in a pink, anti-static bag, with label and S11, S12, S21 and S22 test results

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.

Rosenberger North America  
P.O. Box 309 Akron, PA USA 17501  
[www.rosenbergema.com](http://www.rosenbergema.com)

Tel. : +1.717.859.8900  
Fax : +1.717.859.7044  
Email : [info@rosenbergema.com](mailto:info@rosenbergema.com)

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