

# Technical Data Sheet

# Rosenberger

Cable assembly  
 2.4 mm(m) / 2.4 mm(m) – APSK 0F  
 2.4 mm(m) / 2.4 mm(f) – APSK 0F

**APSK-0F-XXXXX-BB**  
**APSK-0F-XXXXX-BC**

Nominal diameter over H.S. = 9.5 mm



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-BB 2.4 M-M, - BC = 2.4 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	2.4 mm(m)	09S121-271S3
Connector, right	2.4 mm(m) or 2.4mm(f)	09S121-271S3 or 09K121-271S3
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 50 GHz
Delay Matching	PY: Not applicable LY: Not applicable
Intermodulation (3rd order @ 2 x 20 W)	Not applicable
Return Loss <sup>1</sup>	≥ 15 dB, >30 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(.277 inches)

### Environmental data

Temperature range	-40°C to +125°C
IP Rating	N.A.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
B.Cardwell	4/14/2020	B.Cardwell	4/14/2020	100	20e000	B.Cardwell	4/14/2020
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 RNA Datasheet1 Rev-  
 6/26/19

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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	50 Ghz	70 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

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