

Technical Data Sheet

Rosenberger

Cable assembly

1.85mm(m) / 1.85mm(m) – APSK 0F
 1.85mm(m) / 1.85mm(f) – APSK 0F

APSK-0F-XXXXX-AA
APSK-0F-XXXXX-A9



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-AA 1.85M-M, - A9 = 1.85 M-F	$\leq (.57\sqrt{F} + .023F)L + .08\sqrt{F}$	ROSENBERGER YYWW APSK-0F-XXXXX-YY	0.84.7g/mm * L +21 g

XXXXXX – 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	1.85mm(m)	08S121-2U5S3
Connector, right	1.85mm(m)	08S121-2U5S3 or 08K121-2U5S3
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 70 GHz
Delay Matching	PY: Not applicable LY: Not applicable
Intermodulation (3rd order @ 2 x 20 W)	Not applicable
Return Loss ¹	≥ 12 dB, DC to 70 GHz ≥ 15 dB, DC to 50 GHz
Insertion Loss ¹	see table above and below.

¹ 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

Environmental data

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

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QSR-730-04
 RNA Datasheet Rev-
 6/26/19

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
B.Cardwell		Name	XX/XX/XX	100	Preliminary	Name	XX/XX/XX
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

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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	6.3 dB/m
Phase stability, natural curl	+/- 1°	+/- 6°	+/- 9°	+/- 9°
Phase stability, reverse curl	+/- 1°	+/- 6°	+/- 9°	+/- 9°
Return Loss stability natural curl	>30 dB	>30 dB	>30 dB	>30 dB
Return Loss stability reverse curl	>30 dB	>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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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

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QSR-730-04
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