

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

O.D. over Red H.S. = 9.75mm nominal



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

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	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
Crush strength	43 N/mm
Diameter, nominal	5.77mm(.227 inches)

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 RNA Datasheet1 Rev-
 6/26/19

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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Environmental data

Temperature range -40°C to +125°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	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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