

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



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 ¹	≥ 16 dB, DC to 50 GHz ≥ 18 dB, DC to 30 GHz
Insertion Loss ¹	see table above.

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 (.305 inches)

Environmental data

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

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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	20_e000	B.Cardwell	4/14/2020
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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

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