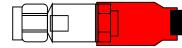
## **Technical Data Sheet**

# Rosenberger

Cable assembly SMA (m) / SMA (m) – APSK 0R SMA (m) / SMA(f) – APSK 0R

## APSK-0R-XXXXX-HH APSK-0R-XXXXX-HJ

Nominal diameter over H.S. = 11.1 mm



Label

All dimensions are in mm; tolerances: SMA(m) – SMA (m) shown above  $\leq 100$ : XXX  $\pm 2.0$ ; > 100 to  $\leq 1500$ : XXX  $\pm 5.0$ ; > 1500 to  $\leq 3000$ : XXX  $\pm 10.0$ ; > 3000:  $\pm 1.5\%$ 

$\Lambda V \Omega I$	0 1/0	rionto
Avall	e va	riants

Type	Max Insertion Loss	Marking	Weight (g) / pce
APSK-0R-XXXXX-HH M- SMA M, - HJ = SMA M SMA F	$\leq (.53\sqrt{F}0288)L + .08\sqrt{F}$ L(meters), F(Ghz)	ROSENBERGER YYWW APSK-0R-XXXXX-YY	TBD

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 SMA(m) 32S121-2U7S3

Connector, right SMA(m)/SMA(f) 32K121-2U7S3/32K121-2U7S3

Cable Cable Type Rosenberger APSK 0R

Armor Description/construction Integrated Strain Relief Color Black

#### Electrical data

Impedance  $50 \Omega$ 

Frequency DC to 18 GHz
Delay Matching PY: Not applicable
LY: Not applicable

Intermodulation (3rd order @ 2 x 20 W) Not applicable

Return Loss¹ ≥ 19 dB, DC to 18 GHz

Insertion Loss<sup>1</sup> see table above and below.

#### **Mechanical data**

Minimum bend radius:

 $\begin{array}{lll} \text{Single} & 25.4 \text{ mm} \\ \text{Armor diameter} & \varnothing 7.75 \text{ mm} \\ \text{Crush Resistance} & 43 \text{ N/mm} \end{array}$ 

Diameter, nominal 7.75mm(.305 inches)

### **Environmental data**

Temperature range -40°C to +125°C

IP Rating N.A.
RoHS Compliant

USA 17501

Draft	Date	Approved	Date	
B.Cardwell	4/14/2020	B.Cardwell	4/14/2020	

 Rev.
 Engineering change number
 Name
 Date

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 4/14/2020

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

## **Technical Data Sheet**

## Rosenberger

Cable assembly SMA (m) / SMA (m) - APSK 0R SMA (m) / SMA(f) - APSK 0R

**APSK-0R-XXXXX-HH APSK-0R-XXXXX-HJ** 

### Additional Electrical Specifications

Return Loss Stability(min) Velocity of Propagation Shielding effectiveness

85% >90 dB @ 1 Ghz

-30 dB

#### Phase Stability

Parameter	1 Ghz	10Ghz	18Ghz
Return Loss(minimum)	30 dB	25dB	20dB
Insertion Loss stability (max @ 25°C)	+/05 dB/m	+/- 1.25 dB/m	+/- 1.65 dB/m
Phase stability, natural curl	+/- 1°	+/- 3°	+/- 4°
Phase stability, reverse curl	+/- 1°	+/- 3°	+/- 4°
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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