

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							
 Nominal diameter over H.S. = 11.5 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-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					
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		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)									
Draft		Date		Rev.		Engineering change number		Name		Date	
B.Cardwell		4/14/2020		100		20_e000		B.Cardwell		4/14/2020	
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			

PROPRIETARY AND CONFIDENTIAL
 This data sheet is the property of Rosenberg North America. By acceptance of this document you agree that all the rights to drawings, specifications, processes and other data therein, as well as the proprietary and novel features of the subject matter, are reserved by Rosenberg North America and are disclosed in confidence. They are not to be manufactured, used, sold or disclosed to others, nor are devices embodying such features or information derived from these disclosures to be used or disclosed, unless and until expressly authorized by Rosenberg North America. These drawings, specifications, processes, etc., are and remain the property of Rosenberg North America, and are not to be copied or reproduced without permission.

OSR-730-04
 RNA Datasheet1 Rev-
 6/26/19

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																															
Environmental data Temperature range -40°C to +85°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																																	
<table border="1"> <thead> <tr> <th>Parameter</th> <th>1 Ghz</th> <th>26.5 Ghz</th> <th>40 Ghz</th> <th>-</th> </tr> </thead> <tbody> <tr> <td>Insertion Loss stability (max @ 25°C)</td> <td>+/- .05 dB/m</td> <td>3.5 dB/m</td> <td>5.4 dB/m</td> <td>-</td> </tr> <tr> <td>Phase stability, natural curl</td> <td>+/- 1°</td> <td>+/- 6°</td> <td>+/- 9°</td> <td>-</td> </tr> <tr> <td>Phase stability, reverse curl</td> <td>+/- 1°</td> <td>+/- 6°</td> <td>+/- 9°</td> <td>-</td> </tr> <tr> <td>Return Loss stability natural curl</td> <td>>30 dB</td> <td>>30 dB</td> <td>>30 dB</td> <td>-</td> </tr> <tr> <td>Return Loss stability reverse curl</td> <td>>30 dB</td> <td>>30 dB</td> <td>>30 dB</td> <td>-</td> </tr> </tbody> </table>				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	-
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																																	
While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.																																	
Rosenberg North America P.O. Box 309 Akron, PA USA 17501 www.rosenbergma.com		Tel. : +1.717.859.8900 Fax : +1.717.859.7044 Email : info@rosenbergma.com	Page 2 / 2																														