

Rosenberger APSK

High performance cable assemblies
for Test & Measurement



Rosenberger APSK Cable Assemblies

Rosenberger's Amplitude Phase Stable Kabels (APSK) are high performance coaxial cable assemblies for Test & Measurement (T&M) applications. Rosenberger's APSK cable assemblies have an integrated armor and are crush resistant, have very low-density PTFE dielectric and exhibit low insertion loss and high phase stability verses flexure. The APSK cable assemblies come in two basic varieties: The 0F, with performance to 70 GHz and the 0R with performance to 26.5 GHz.

Product Features

- Crush resistance 43 N/mm (9.6 lbs/mm)
- High return loss, low insertion loss
- High phase stability verses flexure
- Frequency to 70 GHz
- Custom lengths and configurations available, please contact factory
- Standard lengths listed below available through our distribution partners

Part numbering nomenclature: APSK - XX - YYYYY - ZZ

APSK

Amplitude Phase Stable Kabel

XX

0R = 18, 26.5, 40 GHz
0F = 40, 50, 70 GHz

YYYYY

Length in mm

ZZ

A = 1.85mm (m)
9 = 1.85mm (f)
B = 2.40mm (m)
C = 2.40mm (f)
D = 2.92mm (m)
E = 2.92mm (f)
F = 3.5mm (m)
G = 3.5mm (f)
H = SMA (m)
J = SMA (f)
N = Precision N (m)
P = Precision N (f)

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Product range & variants

18 & 26.5 GHz Assemblies (3.5mm & SMA, 0R cable)

Part number	Description	Frequency (GHz)
APSK-0R-00915-FF	3.5mm(m)-3.5mm(m), 915mm in overall length	26.5
APSK-0R-00915-FG	3.5mm(m)-3.5mm(f), 915mm in overall length	26.5
APSK-0R-00457-FF	3.5mm(m)-3.5mm(m), 457mm in overall length	26.5
APSK-0R-00457-FG	3.5mm(m)-3.5mm(f), 457mm in overall length	26.5
APSK-0R-00915-HH	SMA(m)-SMA(f), 915mm in overall length	18
APSK-0R-00915-HJ	SMA(m)-SMA(f), 915mm in overall length	18
APSK-0R-00457-HH	SMA(m)-SMA(m),457mm in overall length	18
APSK-0R-00457-HJ	SMA(m)-SMA(f), 457mm in overall length	18

40 GHz Assemblies (2.92mm, 0F cable)

Part number	Description	Frequency (GHz)
APSK-0F-00915-DD	2.92mm(m)-2.92mm(m), 915mm in overall length	40
APSK-0F-00915-DE	2.92mm(m)-2.92mm(f), 915mm in overall length	40
APSK-0F-00457-DD	2.92mm(m)-2.92mm(m), 457mm in overall length	40
APSK-0F-00457- DE	2.92mm(m)-2.92mm(f), 457mm in overall length	40

70 & 50 GHz Assemblies (1.85mm, 2.4mm, 0F cable)

Part number	Description	Frequency (GHz)
APSK-0F-00457-AA	1.85mm(m)-1.85mm(m), 457mm overall length	70
APSK-0F-00457-A9	1.85mm(m)-1.85mm(f), 457mm overall length	70
APSK-0F-00915-BB	2.4mm(m)-2.4mm(m), 915mm overall length	50
APSK-0F-00915-BC	2.4mm(m)-2.4mm(f), 915mm overall length	50
APSK-0F-00457-BB	2.4mm(m)-2.4mm(m), 457mm overall length	50
APSK-0F-00457-BC	2.4mm(m)-2.4mm(f), 457mm overall length	50

18 GHz, Precision N Assemblies:

Part number	Description	Frequency (GHz)
APSK-0R-01829-NN	N(m)-N(m), 1829mm(6 ft) in length	18
APSK-0R-01829-NP	N(m)-N(f), 1829mm(6 ft) in length	18
APSK-0R-01219-NN	N(m)-N(m), 1219mm(4 ft) in length	18
APSK-0R-01219-NP	N(m)-N(f), 1219mm(4 ft) in length	18
APSK-0R-00915-NN	N(m)-N(f), 915mm(3 ft) in length	18
APSK-0R-00915-NP	N(m)-N(f), 915mm(3 ft) in length	18



Electrical Data

Impedance	50Ω
Velocity of Propagation	85%
Phase stability verses flexure	+/-6 °@26 GHz (0F style) +/-3° @10 GHz (0R style)

Phase matched cable assemblies to +/- 1 ps available upon request, please contact the factory for additional details.

Mechanical Data

Crush resistance	43 N/mm ² (9.6Lbs/mm)
Armor Diameter	5.7mm (0F), 7.75mm (0R)

Environmental Data

Temperature range	-40°C -+ 125°C -40° -+ 85°C for 2.92 & 3.5mm assemblies)
Rohs	Yes

(additional information in individual product data sheets)

Pride in Precision.



Rosenberger

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