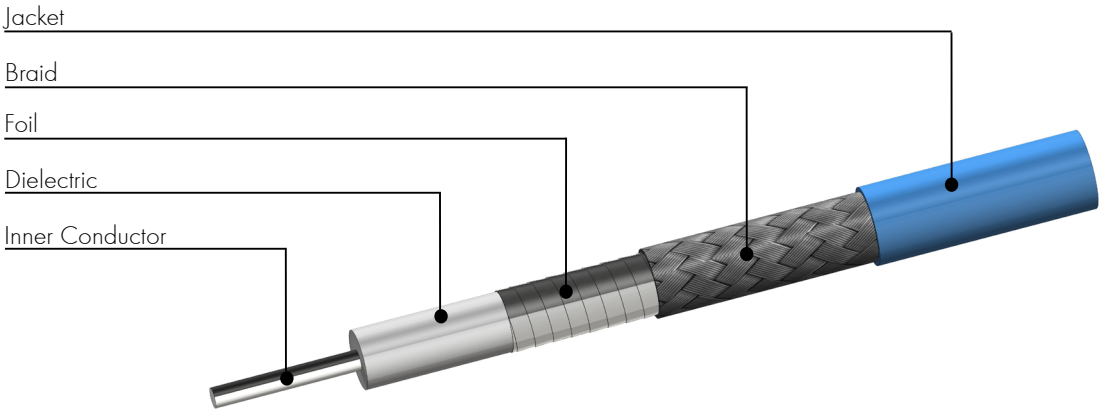
ROSNOL RF/Microwave Interconnect

Technical Data Sheet

Multi Purpose RF/Microwave Test Cable for TAVC

TVAC533A



Material And Diameter

Connector parts	Material	Diameter
Inner Conductor	Solid, Silver Plated Copper (SPC)	
Dielectric	Low Density PTFE (Low Density Polytetrafluoroethylene)	
Foil	Copper, Silver plated	
Braid	Copper, Silver plated	
Jacket	FEP (Fluorinated ethylene propylene)	5.33 mm [.210 inch]

Electrical Data

Impedance	50 Ω
Max. operating frequency	26.5 GHz
Capacitance	86.0 pF/m
Velocity of signal propagation	80 %
Signal delay	4.30 ns/m
Insulation resistance	≥ 1 x 10^8 MΩ/m
Screening effectiveness	≥ 100 dB
Operating Voltage Max. (Vrms @ 60 Hz)	≤ 1.9 kVrms (@ sea level)
Phase Stability vs Bending*	±3.0° typ/±6.5° max
Amplitude Stability vs Bending*	±0.1 dB typ/±0.2 dB max
Power Handling Watts	286 (CW) @10 GHz

* according to IEC60966-1, wrapped 360° around a mandrel of 57 mm (2.25 in) radius

Mechanical Data

Weight	66 g/m
Min. bending radius static	9.65 mm [.380 inch]
Flexures	≥ 10,000

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Environmental Data

Temperature range	-55°C to +165°C
RoHS (2011/65/EU)	compliant

Typical Attenuation

Frequency (GHz)	Typical Attenuation (dB/m) @ 25°C sea level	Typical Attenuation (dB/ft) @ 25°C sea level	Power (W) @ 20°C sea level
1	0.26	0.08	960
10	0.89	0.27	248
18	1.25	0.38	190
26.5	1.57	0.48	155

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