

INFORMATION CONTAINED WITHIN THIS ROSNOL RF/MICROWAVE TECHNOLOGY CORP. DOCUMENT IS CONSIDERED PROPRIETARY AND IS THE PROPERTY OF ROSNOL RF/MICROWAVE TECHNOLOGY CORP.

Rosnol P/N	Length (mm)
A1K50-MP533A-PM-A1K50-1000A/18G	1000
A1K50-MP533A-PM-A1K50-XXXX/18G	Custom Length

Electrical Data					
Impedance	50 ohm				
Frequency	DC-18 GHz				
Capacitance	87 pF/m (26.5 pF/ft)				
Velocity of Signal Propagation	80%				
Signal Delay	4.3 ns/m (1.31 ns/ft)				
Insulation Resistance	$\geq 1 \times 10^8$ M Ω /m				
Shielding Effectiveness	>100 dB (DC -18.0 GHz)				
Max. Operating Voltage	2.6 KVrms (at sea level)				
Frequency	VSWR Max.	Insertion Loss Max.	Phase Stability vs Flexure ¹	Amplitude Stability vs Flexure ²	Flex Life Cycle ³
18 GHz	1.25	≤ 0.001422 (dB/mm) * L (mm) + 0.1 (dB)	$\pm 3^\circ$ Typ. $\pm 5.5^\circ$ Max.	± 0.05 dB Typ. ± 0.10 dB Max.	≥ 10000

¹ Per IEC 60966-1, section 8.6, method 1.

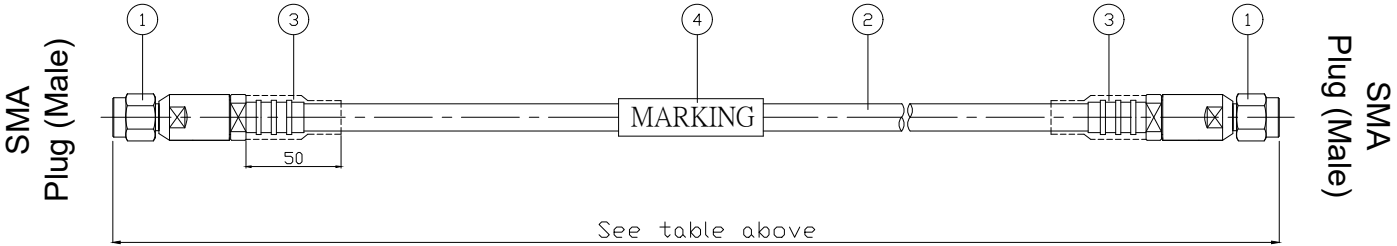
² Per IEC 60966-1, section 9.3.

³ Per IEC 60966-1, section 8.4.

Mechanical Data	
Weight	N/A
Min. Bending Radius	Static 16 mm (.630 inch) Dynamic 25 mm (.984 inch)
Environmental Data	
Operating Temperature	-55°C ~ +165°C
RoHS / REACH	Compliant

4	LABEL HEAT SHRINK TUBE	HST-W-D4-125C-G	1	EA
3	HEAT SHRINK TUBE	HST-B-D6.4-125C-G	2X 50	mm
2	CABLE	ROSNOL MP533A Cable	1000	mm
1	SMA SOLDER CLAMP JACK	SMA1K50-MP533A/9X	2	EA
NO.	DESCRIPTION	PARTS NO.	QTY.	U/M

SPECIFICATION CONTROL DRAWING



NOTES:

- 1) CONNECTORS ASSEMBLED PER MANUFACTURERS INSTRUCTIONS.
- 2) MARKING DETAILS IF NOT SPECIAL MARKING TEXT:
ROSNOL DC-18 GHz
A1K50-MP533A-PM-A1K50-1000A/18G
- 3) Phase Matching: +/- 1 degree@ 18GHz
- 4) Workmanship IPC class 3

ROSNOL 
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N-CAGE Code: SFKK0

TITLE
SMA Plug (Male) to SMA Plug (Male)
1 Meter Cable Assembly for MP533A Cable

DRAWING NO.
A1K50-MP533A-PM-A1K50-1000A/18G

DIMENSION ARE IN MM [INCH]

TOLERANCES

DECIMALS
.X ± 6.35 [.250"]
.XX ± 3.18 [.125"]
.XXX ± 1.52 [.060"]
DEGREES
X° $\pm 1^\circ$

CUSTOMER

REV

—

UNIT

mm [inch]

APPROVED

DATE

DRAWN

DATE