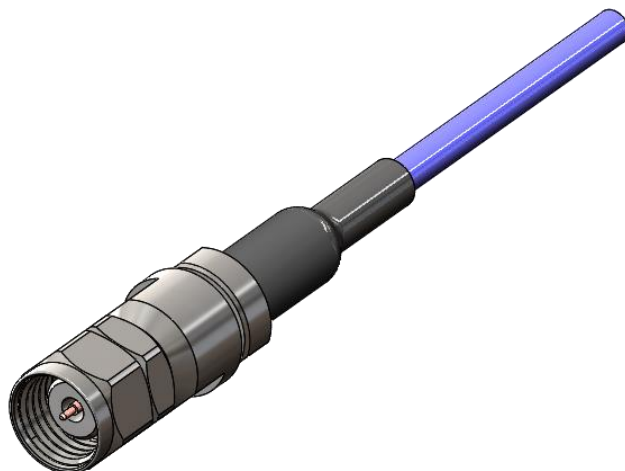


Series: RF086, Cable Assembly, 50 Ω



Part Number:

RF086-XXXX-XXXX-XXXX

END 1 CONNECTOR

- 24SP: 2.4mm Plug
- 24SJ: 2.4mm Jack
- 18SP: 1.85mm Plug
- 18SJ: 1.85mm Jack
- 92SP: 2.92mm Plug
- 92SJ: 2.92mm Jack
- M0SP: SMPM Plug (FD)
- M0SJ: SMPM Jack
- 01SP: SMA Plug
- 01BJ: SMA Bulkhead Jack
- 01SB: SMA Sealed Bulkhead Jack
- 00SJ: SMP Straight Jack
- 00MJ: SMP Right Angle Mitered Jack
- 00BF: SMP Bulkhead Plug (FD)
- 00BL: SMP Bulkhead Plug (LD)
- 00BC: SMP Bulkhead Plug (CM)
- 00BS: SMP Bulkhead Plug (SB)

OVERALL ASSEMBLY LENGTH (OAL)
XXXX (MILLIMETERS)
(0100 MIN)

END 2 CONNECTOR

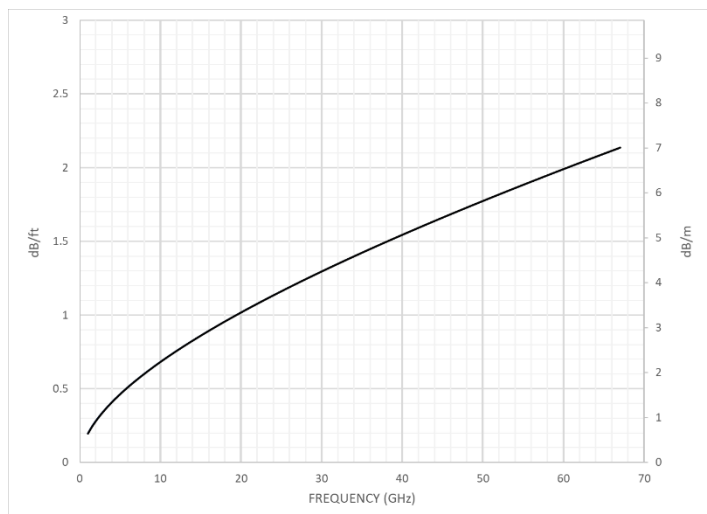
- 24SP: 2.4mm Plug
- 24SJ: 2.4mm Jack
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- M0SP: SMPM Plug (FD)
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- 01SP: SMA Plug
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- 00MJ: SMP Right Angle Mitered Jack
- 00BF: SMP Bulkhead Plug (FD)
- 00BL: SMP Bulkhead Plug (LD)
- 00BC: SMP Bulkhead Plug (CM)
- 00BS: SMP Bulkhead Plug (SB)

Series: RF086, Cable Assembly, 50 Ω
ELECTRICAL DATA

Impedance	50 Ω		
Frequency Range	1.85mm Plug, 1.85mm Jack	DC to 67 GHz	
	2.4mm Plug, 2.4mm Jack	DC to 50 GHz	
	2.92mm Plug, 2.92mm Jack	DC to 40 GHz	
	SMPM Plug, SMPM Jack	DC to 67 GHz	
	SMA Plug, SMA Bulkhead Jack, SMA Sealed Bulkhead Jack	DC to 26.5 GHz	
	SMP Right Angle Mitered Jack	DC to 26.5 GHz	
	SMP Straight Jack, SMP Plug (FD, LD, CM, SB)	DC to 40 GHz	
	VSWR	1.85mm, 2.4mm, 2.92mm	1.4:1 Max.
		SMPM	DC to 50 GHz: 1.4:1 Max. 50 GHz to 67 GHz: 2.0:1 Max.
		SMA	1.3:1 Max
		SMP Right Angle Mitered Jack	1.25:1 Max.
		SMP Straight Jack, Plug (FD, LD, CM, SB)	DC to 26.5 GHz: 1.25:1 Max. 26.5 GHz to 40 GHz: 1.5:1 Max.
	Velocity of Propagation	79%	
	Capacitance	84 pF/meter	
Time Delay	4.20 ns/meter		
Insertion Loss	<i>See Graph</i>		
Power Handling	<i>See Graph</i>		

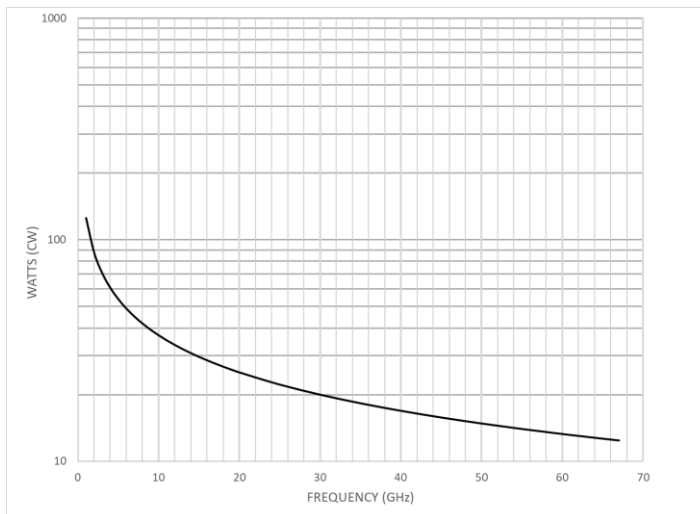
Series: RF086, Cable Assembly, 50 Ω

MAXIMUM INSERTION LOSS @ T=25°C¹



¹Not including connector losses. Connector losses can be approximated as $0.045 \times \sqrt{F(\text{GHz})}$ dB/connector.

TYPICAL POWER HANDLING @ T=25°C²



²Guideline, only. Actual power handling performance depends on mounting and cooling.

MECHANICAL DATA

Outer Diameter (cable only)	2.54 mm
Mass	17.9 grams/meter
Minimum Bend Radius (Static)	8.9 mm
Minimum Connector Retention	6.80 kg

ENVIRONMENTAL DATA

Temperature Range	-55 to +125°C
Thermal Shock	MIL-STD-202-107, -55°C to +125°C, 10 cycles

Series: RF086, Cable Assembly, 50 Ω **CONNECTOR OPTIONS**

End Option	Description	Drawing
24SP	2.4mm Plug	PRF24-P-C-EP-086-SS Drawing
24SJ	2.4mm Jack	PRF24-J-C-EP-086-SS Drawing
18SP	1.85mm Plug	PRF18-P-C-EP-086-SS Drawing
18SJ	1.85mm Jack	PRF18-J-C-EP-086-SS Drawing
92SP	2.92mm Plug	PRF92-P-C-EP-086-SS-1-X Drawing
92SJ	2.92mm Jack	PRF92-J-C-EP-086-SS-X Drawing
MOSP	SMPM Plug	PRFM0-P-C-EE-086-SD Drawing
MOSJ	SMPM Jack	PRFM0-J-C-EE-086-SD Drawing
01SP	SMA Plug	PRF01-P-C-EG-086-SD Drawing
01BJ	SMA Bulkhead Jack	PRF01-J-C-EG-086-BD Drawing
01SB	SMA Sealed Bulkhead Jack	PRF01-J-C-EG-086-BD-1 Drawing
00SJ	SMP Straight Jack	PRF00-J-C-EE-086-SD Drawing
00MJ	SMP Right Angle Mitered Jack	PRF00-J-C-EE-086-RD Drawing
00BF	SMP Bulkhead Plug (FD)	PRF00-PF-C-EG-086-BD Drawing
00BL	SMP Bulkhead Plug (LD)	PRF00-PL-C-EG-086-BD Drawing
00BC	SMP Bulkhead Plug (CM)	PRF00-PC-C-EG-086-BD Drawing
00BS	SMP Bulkhead Plug (SB)	PRF00-PS-C-EG-086-BD Drawing

ADDITIONAL INFORMATION

Cable Type	Datasheet
Cable Assembly	RF086 Drawing

USE OF PRODUCT SPECIFICATION SHEET

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