

R Series Semi-flexible Cable Assemblies

R3/3.5mm Male /3.5mm Male/DC-26.5 GHz

Model: R3-3.5M3.5M-L

Features:

- Max Frequency 26.5 GHz
- VSWR max of 1.30
- Velocity of Propagation of 70%

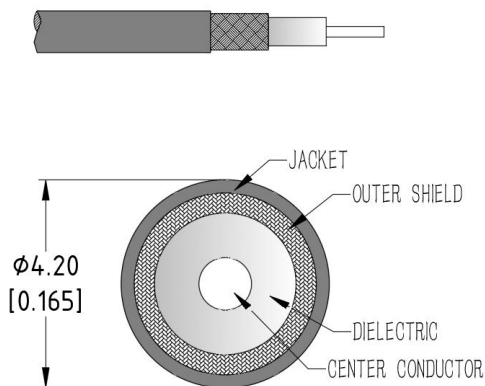
Applications:

- Test & Measurement equipment
- Manufacturing lab
- WAN system equipment

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency Range	DC		26.5	GHz
VSWR		1.25	1.3	:1
Velocity of propagation		70%		
Shielding Effectiveness	90			dB
Capacitance			81	pF/m

Cable Cross Section:



Envrionmental And Physical Characteristics:

Description	Parameter	Units
Cable Diameter	4.2	mm
Cable Jacket	FEP	
Min. Bending Radius	18	mm
Typical Flex life	50000	
Operating Temperature	-55 to +125	°C
Storage Temperature	-55 to +165	°C

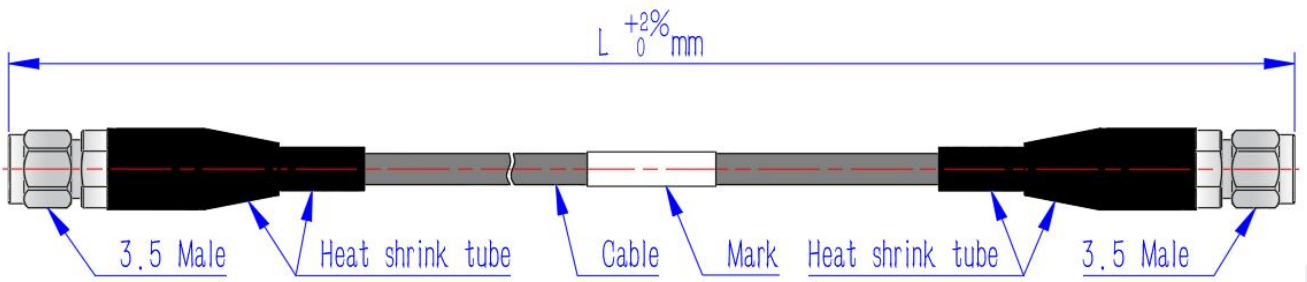
Cable Performance By Frequency

Frequency	2 GHz	4 GHz	6 GHz	8 GHz	12 GHz	16 GHz	18 GHz	26.5 GHz
Insertion Loss (dB/m Max)	0.56	0.84	1.07	1.29	1.66	2.00	2.16	2.81
RF Power CW (W Max.)	181	121	95	79	62	51	47	36

Connectors:

Description	Connector 1	Connector 2
Type	3.5mm Straight Male	3.5mm Straight Male
Contact Material And Plating	Beryllium Copper,Gold	Beryllium Copper,Gold
Dielectric Type	PEI	PEI
Body Material And Plating	Passivated Stainless Steel	Passivated Stainless Steel
Insertion Loss (dB Max)	$0.05 \cdot \sqrt{f_{\text{GHz}}}$	$0.05 \cdot \sqrt{f_{\text{GHz}}}$

Outline Drawing:



Ordering Information:

Base Number	Length (Unit meters)	Phase/delay Matched
R3-3.5M3.5M	-L	LEAVE BLANK(NOT REQUIRED) -XXPS($\leq \pm XX$ PS) -XX°($\pm XX^\circ$)

Typical Performance Data:

Model:R3-3.5M3.5M-1m

Frequency	2 GHz		6 GHz		12 GHz		18 GHz		26.5GHz	
	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max
Insertion Loss	0.63	0.70	1.20	1.32	1.83	2.00	2.37	2.59	3.06	3.32
VSWR	1.05	1.10	1.10	1.15	1.15	1.20	1.20	1.30	1.25	1.30