

# 50 Ω μWAVE / mmWAVE CABLE SPECIFICATIONS



## STANDARD OFF-THE-SHELF ASSEMBLIES

TYPE	MWC-2550-01	MWC-2350-01	MWC-2350CU-01	MWC-19550-FCU-01	RG 405 (.086")	RG 402 (.141")	.047 Low-Loss Flexible	.085 Low-Loss Flexible	.086 Low-Loss Flexible	.178 Low-Loss Flexible	.277 Low-Loss Flexible	
<b>ELECTRICAL</b>												
<b>Max. Frequency (GHz)</b>	40	35	50	45	20	20	65	50	65	27	18	
<b>Max. Insertion Loss (dB/m)</b>	<b>1 GHz</b>	0.79	0.72	0.68	0.43	0.72	0.40	1.21	0.69	0.65	0.27	0.17
	<b>26 GHz</b>	3.80 @ 20 GHz	3.71 @ 20 GHz	4.27	2.78	4.26 @ 20 GHz	2.30 @ 20 GHz	7.43	4.28	3.90	1.23 @ 18 GHz	0.79 @ 18 GHz
	<b>40 GHz</b>	—	—	5.59	3.66	—	—	9.68	5.59	5.06	—	—
	<b>50 GHz</b>	—	—	6.46	—	—	—	11.14	6.47	5.81	—	—
<b>Propagation Delay (ns/m)</b>	4.76	4.72	4.76	4.12	4.79	4.79	4.76	4.75	4.20	4.17	4.02	
<b>Velocity of Propagation</b>	70%		81%		70%		70%		80%		83%	
<b>Capacitance (pF/m)</b>	96.80	95.45	97.80	82.39	104.97	98.07	95.00	88.2	83.37	82.00		
<b>CONSTRUCTION</b>												
<b>Center Conductor</b>	Solid Silver Plated Copper											
<b>Dielectric</b>	FEP			Foam Fluoropolymer	PTFE		PFA	Solid PTFE	Foam Fluoropolymer	PTFE Tape		
<b>Shield</b>	1) Ag Plated Cu 2) Ag Plated Cu		1) Ag Plated Cu 2) Cu Tape 3) Ag Plated Cu	1) Ag Plated Cu 2) Ag Plated Cu	Tinned Cu		1) Ag Plated Cu 2) Ag Plated Cu	Spiral Strip Ag Plated Cu	1) Ag Plated Cu 2) Ag Plated Cu	1) Flat Ag Plated Cu 2) Al Polyester 3) Round Ag Plated Cu		
<b>Jacket</b>	FEP				—	—	FEP					
<b>MECHANICAL</b>												
<b>Operating Temp</b>	-40° C to 200° C		-65° C to 125° C	-65° C to 150° C	-40° C to 125° C	-40° C to 125° C	-55° C to 105° C	-55° C to 200° C	-65° C to 150° C	-55° C to 200° C		
<b>Min. Bend Radius</b>	9.00 mm	12.00 mm	6.00 mm	12.50 mm	6.00 mm	10.90 mm	5.00 mm	13.20 mm	8.90 mm	24.80 mm	38.10 mm	
<b>Connector Options</b>	SMA, SMP	3.50 mm	2.92 mm, 2.40 mm, SMPM	2.92 mm, 2.40 mm	SMA, SMP	SMA	1.35 mm, 1.85 mm, 2.40 mm, 2.92 mm, SMPM	2.92 mm, 2.40 mm	1.85 mm, 2.40 mm, 2.92 mm, SMPM	SMA, TNCA, N Type	SMA, TNCA, N Type	
<b>PART NUMBER</b>												
<b>Series</b>	RF25S	RF23S	RF23C	RF120	RF405	RF402	RF047-A	RF085	RF086	RF180	RF280	

\*Shown at ~1/2 scale. \*\* Shown at 1/3 scale.