

## MIL-DTL-17 APPROVED CABLES

### MIL-DTL-17 APPROVED

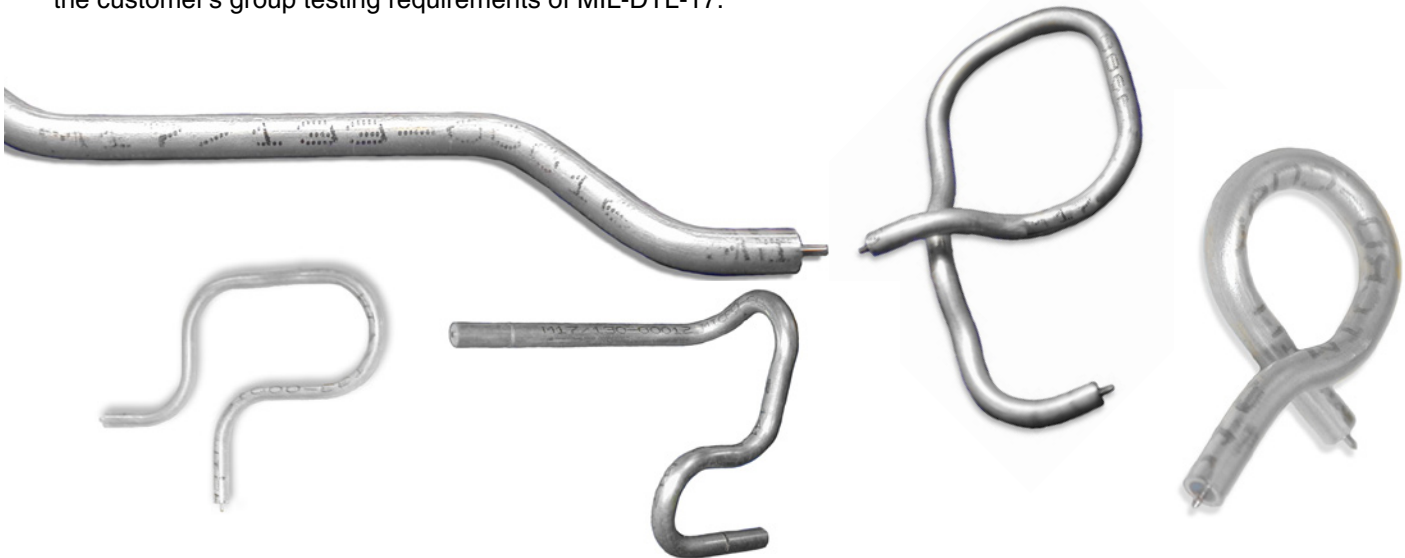
Many Micro-Coax Semi-Rigid coaxial cables have successfully completed qualification and have been approved under the MIL-DTL-17 Qualified Products List (QPL).

### HOW MIL-DTL-17 APPROVAL BENEFITS CUSTOMERS

Under MIL-DTL-17, all Micro-Coax M17 qualified cables are inspected for quality and optimum performance prior to being put in stock. This eliminates the need for special purchasing specifications and costly, time consuming “customized” inspection previously required to conform to the customer’s group testing requirements of MIL-DTL-17.

Tests ensure cable conformance with broadband performance requirements for attenuation and SWR (structural return loss), coaxial concentricity, conductor adhesion, dimensional stability and weight.

- “M17” part numbers supercede familiar “RG” part numbers. RG specifications have been deleted by the Defense Electronics Supply Center (DESC).
- Cables designated M17/129, 130 and 133 are marked continuously for visual cable identification
- Stocks of all M17 cables are carried at Micro-Coax and Micro-Coax distributor locations



## ATTENUATION AND POWER RATINGS

MIL-DTL-17/129			MIL-DTL-17/130				MIL-DTL-17/133			MIL-DTL-17/151			MIL-DTL-17/154		
Maximum Attenuation		Power	Maximum Attenuation		Power		Maximum Attenuation		Power		Maximum Attenuation		Power		
MHz	dB/100ft	Watts	MHz	dB <sup>1</sup> /100ft	dB <sup>2</sup> /100ft	Watts	MHz	dB/100ft	Watts	MHz	dB/100ft	Watts	MHz	dB/100ft	Watts
400	4.5	1900	500	8.0	8.3	600.0	500	15.0	180.0	500	28.0	45.0	500	42.0	14.0
1000	7.5	1400	1000	12.0	12.1	450.0	1000	22.0	130.0	1000	40.0	32.0	1000	60.0	10.0
3000	16.0	750	3000	21.0	22.5	250.0	5000	50.0	54.0	3000	70.0	18.0	3000	100.0	6.0
10000	33.0	350	5000	29.0	30.1	180.0	1000	80.0	35.0	5000	90.0	13.0	5000	140.0	4.5
18000	48.0	200	10000	45.0	45.5	120.0	20000	130.0	20.0	10000	130.0	9.0	10000	190.0	3.1
—	—	—	20000	70.0	70.0	70.0	—	—	—	20000	190.0	6.5	20000	280.0	2.0
Structural Return Loss			Structural Return Loss				Structural Return Loss				Structural Return Loss				
MHz	dB		-MHz	dB			MHz	dB		MHz	dB		MHz	dB	
500	26.0		500	30.0			500	28.0		1000	22.0		500	22.0	
5000	21.0		5000	23.0			5000	23.0		10000	18.0		5000	21.0	
10000	19.0		18000	21.0			20000	15.0		20000	14.0		20000	15.0	
18000	16.0		—	—			—	—		—	—		—	—	

## M17 Approved Cables

<b>DIMENSIONS</b>	<b>M17/154-00001 UT-034-M17</b>	<b>M17/154-00002 UT-034-TP-M17</b>	<b>M17/151-00001 UT-047-M17</b>	<b>M17/151-00002 UT-047-TP-M17</b>
<b>Outer Conductor Diameter</b>				
<b>[in]</b>	0.034 ± 0.001	0.034 + 0.002/ -0.001	0.047 ± 0.001	0.047 + 0.002/ -0.001
<b>[mm]</b>	0.864 ± 0.025	0.864 + 0.051/ -0.025	1.194 ± 0.025	1.194 + 0.051/ -0.025
<b>Dielectric Diameter</b>				
<b>[in]</b>	0.026 ± 0.001	0.026 ± 0.001	0.037 ± 0.001	0.037 ± 0.001
<b>[mm]</b>	0.660 ± 0.025	0.660 ± 0.025	0.941 ± 0.025	0.941 ± 0.025
<b>Center Conductor Diameter</b>				
<b>[in]</b>	0.0080 ± 0.0005	0.0080 ± 0.0005	0.0113 ± 0.0005	0.0113 ± 0.0005
<b>[mm]</b>	0.8640 ± 0.0127	0.8640 ± 0.0127	0.2870 ± 0.0127	0.8640 ± 0.0127

## MATERIALS

<b>Outer Conductor</b>	COPPER	TIN/COPPER	COPPER	TIN/COPPER
<b>Dielectric</b>	PTFE	PTFE	PTFE	PTFE
<b>Center Conductor</b>	SPCW	SPCW	SPCW	SPCW
<b>RoHS Compliant</b>	YES	YES	YES	YES

## MECHANICAL CHARACTERISTICS

<b>Operating Temp. Range [°C]</b>	-40 to 100	-40 to 100	-40 to 100	-40 to 100
<b>Min. Inside Bend Diameter</b>				
<b>[in]</b>	0.250	0.250	0.250	0.250
<b>[mm]</b>	6.350	6.350	6.350	6.350
<b>Weight</b>				
<b>[lbs/100ft]</b>	0.26	0.28	0.45	0.48
<b>[kg/100m]</b>	0.39	0.42	0.67	0.71
<b>Dimensional Stability</b>				
<b>Temperature [°C]</b>	100	100	125	125
<b>Maximum Dimension</b>				
<b>[in]</b>	0.015	0.015	0.015	0.015
<b>[mm]</b>	0.381	0.381	0.381	0.381
<b>Center Conductor Adhesion</b>				
<b>Minimum lbs</b>	0.50	0.50	2.00	2.00
<b>Minimum kg</b>	0.23	0.23	0.91	0.91
<b>Maximum lbs</b>	5.50	5.50	10.00	10.00
<b>Maximum kg</b>	2.50	2.50	4.54	4.54

## ELECTRICAL CHARACTERISTICS

<b>Characteristic Impedance [ohms]</b>	50 ± 3.0	50 ± 3.0	50 ± 2.5	50 ± 2.5
<b>Capacitance [Maximum]</b>				
<b>[pF/ft]</b>	32.2	32.2	32.2	32.2
<b>[pF/m]</b>	105.0	105.0	105.0	105.0
<b>Corona Extinction Voltage [VRMS @ 60Hz]</b>	750	750	1000	1000
<b>Voltage Withstanding [VRMS @ 60Hz]</b>	2000	2000	2000	2000
<b>Operating Frequency [GHz]</b>	20	20	20	20
<b>Attenuation</b>	See Table Page 12 (MIL-DTL-17/154)	See Table Page 12 (MIL-DTL-17/154)	See Table Page 12 (MIL-DTL-17/151)	See Table Page 12 (MIL-DTL-17/151)
<b>Power</b>	See Table Page 12 (MIL-DTL-17/154)	See Table Page 12 (MIL-DTL-17/154)	See Table Page 12 (MIL-DTL-17/151)	See Table Page 12 (MIL-DTL-17/151)
<b>Structural Loss</b>	See Table Page 12 (MIL-DTL-17/154)	See Table Page 12 (MIL-DTL-17/154)	See Table Page 12 (MIL-DTL-17/151)	See Table Page 12 (MIL-DTL-17/151)

## M17 Approved Cables

<b>DIMENSIONS</b>	<b>M17/133-RG-405 UT-085-H-M17</b>	<b>M17/133-00001 UT-085-H-TP-M17</b>	<b>M17/133-00002 UT-085C-H-M17</b>	<b>M17/133-00003 UT-085C-H-TP-M17</b>
<b>Outer Conductor Diameter</b>				
[in]	0.087 ± 0.001	0.087 + 0.002/ -0.001	0.087 ± 0.001	0.087 + 0.002/ -0.001
[mm]	2.197 ± 0.025	2.197 + 0.051/ -0.025	2.197 ± 0.025	2.197 + 0.051/ -0.025
<b>Dielectric Diameter</b>				
[in]	0.066 ± 0.002	0.066 ± 0.002	0.066 ± 0.002	0.066 ± 0.002
[mm]	1.676 ± 0.051	1.676 ± 0.051	1.676 ± 0.051	1.676 ± 0.051
<b>Center Conductor Diameter</b>				
[in]	0.0201 ± 0.0005	0.0201 ± 0.0005	0.0201 ± 0.0005	0.0201 ± 0.0005
[mm]	0.5110 ± 0.0127	0.5110 ± 0.0127	0.5110 ± 0.0127	0.5110 ± 0.0127

## MATERIALS

<b>Outer Conductor</b>	COPPER	TIN/COPPER	COPPER	TIN/COPPER
<b>Dielectric</b>	PTFE	PTFE	PTFE	PTFE
<b>Center Conductor</b>	SPCW	SPCW	SPC	SPC
<b>RoHS Compliant</b>	YES	YES	YES	YES

## MECHANICAL CHARACTERISTICS

<b>Operating Temp. Range [°C]</b>	-40 to 125	-40 to 125	-40 to 125	-40 to 125
<b>Min. Inside Bend Diameter</b>				
[in]	0.25	0.25	0.25	0.25
[mm]	6.35	6.35	6.35	6.35
<b>Weight</b>				
[lbs/100ft]	1.53	1.58	1.52	1.57
[kg/100m]	2.28	2.35	2.26	2.34
<b>Dimensional Stability</b>				
<b>Temperature [°C]</b>	125	125	125	125
<b>Maximum Dimension</b>				
[in]	0.015	0.015	0.015	0.015
[mm]	0.380	0.380	0.380	0.380
<b>Center Conductor Adhesion</b>				
<b>Minimum lbs</b>	4.00	4.00	4.00	4.00
<b>Minimum kg</b>	1.81	1.81	1.81	1.81
<b>Maximum lbs</b>	25.00	25.00	25.00	25.00
<b>Maximum kg</b>	11.34	11.34	11.34	11.34

## ELECTRICAL CHARACTERISTICS

<b>Characteristic Impedance [ohms]</b>	50 ± 1.5	50 ± 1.5	50 ± 1.5	50 ± 1.5
<b>Capacitance [Maximum]</b>				
[pF/ft]	32.0	32.0	32.0	32.0
[pF/m]	105.0	105.0	105.0	105.0
<b>Corona Extinction Voltage [VRMS @ 60Hz]</b>	1500	1500	1500	1500
<b>Voltage Withstanding [VRMS @ 60Hz]</b>	5000	5000	5000	5000
<b>Operating Frequency [GHz]</b>	20	20	20	20
<b>Attenuation</b>	See Table Page 12 (MIL-DTL-17/133)	See Table Page 12 (MIL-DTL-17/133)	See Table Page 12 (MIL-DTL-17/133)	See Table Page 12 (MIL-DTL-17/133)
<b>Power</b>	See Table Page 12 (MIL-DTL-17/133)	See Table Page 12 (MIL-DTL-17/133)	See Table Page 12 (MIL-DTL-17/133)	See Table Page 12 (MIL-DTL-17/133)
<b>Structural Loss</b>	See Table Page 12 (MIL-DTL-17/133)	See Table Page 12 (MIL-DTL-17/133)	See Table Page 12 (MIL-DTL-17/133)	See Table Page 12 (MIL-DTL-17/133)

## M17 Approved Cables

### DIMENSIONS

	<b>M17/133-00006</b> <b>UT-085-M17</b>	<b>M17/133-00007</b> <b>UT-085-TP-M17</b>	<b>M17/133-00016</b> <b>UT-085-SP-M17</b>
<b>Outer Conductor Diameter</b>			
<b>[in]</b>	0.0865 ± 0.0010	0.0865 + 0.0020/ -0.0010	0.0865 + 0.0020/ -0.0010
<b>[mm]</b>	2.1971 ± 0.0254	2.1971 + 0.0508/ -0.0254	2.1971 + 0.0508/ -0.0254
<b>Dielectric Diameter</b>			
<b>[in]</b>	0.066 ± 0.002	0.066 ± 0.002	0.066 ± 0.002
<b>[mm]</b>	1.676 ± 0.051	1.676 ± 0.051	1.676 ± 0.051
<b>Center Conductor Diameter</b>			
<b>[in]</b>	0.0201 ± 0.0005	0.0201 ± 0.0005	0.0201 ± 0.0005
<b>[mm]</b>	0.5110 ± 0.0127	0.5110 ± 0.0127	0.5110 ± 0.0127

### MATERIALS

<b>Outer Conductor</b>	COPPER	TIN/COPPER	SILVER/COPPER
<b>Dielectric</b>	PTFE	PTFE	PTFE
<b>Center Conductor</b>	SPCW	SPCW	SPCW
<b>RoHS Compliant</b>	YES	YES	YES

### MECHANICAL CHARACTERISTICS

<b>Operating Temp. Range [°C]</b>	-40 to 125	-40 to 125	-40 to 125
<b>Min. Inside Bend Diameter</b>			
<b>[in]</b>	0.10	0.10	0.10
<b>[mm]</b>	2.54	2.54	2.54
<b>Weight</b>			
<b>[lbs/100ft]</b>	1.53	1.58	1.58
<b>[kg/100m]</b>	2.28	2.35	2.35
<b>Dimensional Stability</b>			
<b>Temperature [°C]</b>	125	125	125
<b>Maximum Dimension</b>			
<b>[in]</b>	0.015	0.015	0.015
<b>[mm]</b>	0.380	0.380	0.380
<b>Center Conductor Adhesion</b>			
<b>Minimum lbs</b>	4.00	4.00	4.00
<b>Minimum kg</b>	1.81	1.81	1.81
<b>Maximum lbs</b>	25.00	25.00	25.00
<b>Maximum kg</b>	11.34	11.34	11.34

### ELECTRICAL CHARACTERISTICS

<b>Characteristic Impedance [ohms]</b>	50 ± 1.5	50 ± 1.5	50 ± 1.5
<b>Capacitance [Maximum]</b>			
<b>[pF/ft]</b>	32.0	32.0	32.0
<b>[pF/m]</b>	105.0	105.0	105.0
<b>Corona Extinction Voltage [VRMS @ 60Hz]</b>	1500	1500	1500
<b>Voltage Withstanding [VRMS @ 60Hz]</b>	5000	5000	5000
<b>Operating Frequency [GHz]</b>	20	20	20
<b>Attenuation</b>	See Table Page 12 (MIL-DTL-17/133)	See Table Page 12 (MIL-DTL-17/133)	See Table Page 12 (MIL-DTL-17/133)
<b>Power</b>	See Table Page 12 (MIL-DTL-17/133)	See Table Page 12 (MIL-DTL-17/133)	See Table Page 12 (MIL-DTL-17/133)
<b>Structural Loss</b>	See Table Page 12 (MIL-DTL-17/133)	See Table Page 12 (MIL-DTL-17/133)	See Table Page 12 (MIL-DTL-17/133)

## M17 Approved Cables

### DIMENSIONS

	<b>M17/133-00012 UT-085-AL-M17</b>	<b>M17/133-00013 UT-085-AL-TP-M17</b>
<b>Outer Conductor Diameter</b>		
[in]	0.087 ± 0.001	0.087 + 0.002/ -0.001
[mm]	2.197 ± 0.025	2.197 + 0.051/ -0.025
<b>Dielectric Diameter</b>		
[in]	0.066 ± 0.002	0.066 ± 0.002
[mm]	1.676 ± 0.051	1.676 ± 0.051
<b>Center Conductor Diameter</b>		
[in]	0.0201 ± 0.0005	0.0201 ± 0.0005
[mm]	0.5110 ± 0.0127	0.5110 ± 0.0127

### MATERIALS

<b>Outer Conductor</b>	1100 ALUMINUM	TIN/1100 ALUMINUM
<b>Dielectric</b>	PTFE	PTFE
<b>Center Conductor</b>	SPCW	SPCW
<b>RoHS Compliant</b>	YES	YES

### MECHANICAL CHARACTERISTICS

<b>Max Operating Temp. [°C]</b>	125	125
<b>Min. Inside Bend Radius</b>		
[in]	0.07	0.07
[mm]	1.78	1.78
<b>Weight</b>		
[lbs/100ft]	0.75	0.80
[kg/100m]	1.13	1.19
<b>Dimensional Stability</b>		
<b>Temperature [°C]</b>	125	125
<b>Maximum Dimension</b>		
[in]	0.015	0.015
[mm]	0.380	0.380
<b>Center Conductor Adhesion</b>		
<b>Minimum lbs</b>	4.00	4.00
<b>Minimum kg</b>	1.81	1.81
<b>Maximum lbs</b>	25.00	25.00
<b>Maximum kg</b>	11.34	11.34

### ELECTRICAL CHARACTERISTICS

<b>Characteristic Impedance [ohms]</b>	50 ± 1.5	50 ± 1.5
<b>Capacitance [Maximum]</b>		
[pF/ft]	32.0	32.0
[pF/m]	105.0	105.0
<b>Corona Extinction Voltage [VRMS @ 60Hz]</b>	1500	1500
<b>Voltage Withstanding [VRMS @ 60Hz]</b>	5000	5000
<b>Operating Frequency [GHz]</b>	20	20
<b>Attenuation</b>	See Table Page 12 (MIL-DTL-17/133)	See Table Page 12 (MIL-DTL-17/133)
<b>Power</b>	See Table Page 12 (MIL-DTL-17/133)	See Table Page 12 (MIL-DTL-17/133)
<b>Structural Loss</b>	See Table Page 12 (MIL-DTL-17/133)	See Table Page 12 (MIL-DTL-17/133)

## M17 Approved Cables

<b>DIMENSIONS</b>	<b>M17/130-RG-402 UT-141-HA-M17</b>	<b>M17/130-00001 UT-141-HA-TP-M17</b>	<b>M17/130-00004 UT-141-SA-M17</b>	<b>M17/130-00005 UT-141-SA-TP-M17</b>
<b>Outer Conductor Diameter</b>				
<b>[in]</b>	0.141 ± 0.001	0.141 + 0.002/ -0.001	0.141 ± 0.001	0.141 + 0.002/ -0.001
<b>[mm]</b>	3.581 ± 0.025	3.581 + 0.051/ -0.025	3.581 ± 0.025	3.581 + 0.051/ -0.025
<b>Dielectric Diameter</b>				
<b>[in]</b>	0.118 ± 0.001	0.118 ± 0.001	0.118 ± 0.001	0.118 ± 0.001
<b>[mm]</b>	2.985 ± 0.025	2.985 ± 0.025	2.985 ± 0.025	2.985 ± 0.025
<b>Center Conductor Diameter</b>				
<b>[in]</b>	0.0362 ± 0.0007	0.0362 ± 0.0007	0.0362 ± 0.0007	0.0362 ± 0.0007
<b>[mm]</b>	0.9195 ± 0.0178	0.9195 ± 0.0178	0.9195 ± 0.0178	0.9195 ± 0.0178

## MATERIALS

<b>Outer Conductor</b>	COPPER	TIN/COPPER	COPPER	TIN/COPPER
<b>Dielectric</b>	PTFE	PTFE	PTFE	PTFE
<b>Center Conductor</b>	SPCW	SPCW	SPCW	SPCW
<b>RoHS Compliant</b>	YES	YES	YES	YES

## MECHANICAL CHARACTERISTICS

<b>Operating Temp. Range [°C]</b>	-40 to 125	-40 to 125	-40 to 125	-40 to 125
<b>Min. Inside Bend Diameter</b>				
<b>[in]</b>	0.5	0.5	0.15	0.15
<b>[mm]</b>	12.7	12.7	3.81	3.81
<b>Weight</b>				
<b>[lbs/100ft]</b>	3.44	3.51	3.44	3.51
<b>[kg/100m]</b>	5.12	5.22	5.12	5.22
<b>Dimensional Stability</b>				
<b>Temperature [°C]</b>	125	125	125	125
<b>Maximum Dimension</b>				
<b>[in]</b>	0.015	0.015	0.015	0.015
<b>[mm]</b>	0.380	0.380	0.380	0.380
<b>Center Conductor Adhesion</b>				
<b>Minimum lbs</b>	4.00	4.00	4.00	4.00
<b>Minimum kg</b>	1.81	1.81	1.81	1.81
<b>Maximum lbs</b>	65.00	65.00	65.00	65.00
<b>Maximum kg</b>	29.48	29.48	29.48	29.48

## ELECTRICAL CHARACTERISTICS

<b>Characteristic Impedance [ohms]</b>	50 ± 1.0	50 ± 1.0	50 ± 1.0	50 ± 1.0
<b>Capacitance [Maximum]</b>				
<b>[pF/ft]</b>	29.9	29.9	29.9	29.9
<b>[pF/m]</b>	98.1	98.1	98.1	98.1
<b>Corona Extinction Voltage [VRMS @ 60Hz]</b>	1900	1900	1900	1900
<b>Voltage Withstanding [VRMS @ 60Hz]</b>	5000	5000	5000	5000
<b>Operating Frequency [GHz]</b>	20	20	20	20
<b>Attenuation</b>	See Table Page 12 (MIL-DTL-17/130) (dB1)	See Table Page 12 (MIL-DTL-17/130) (dB1)	See Table Page 12 (MIL-DTL-17/130) (dB1)	See Table Page 12 (MIL-DTL-17/130) (dB1)
<b>Power</b>	See Table Page 12 (MIL-DTL-17/130)	See Table Page 12 (MIL-DTL-17/130)	See Table Page 12 (MIL-DTL-17/130)	See Table Page 12 (MIL-DTL-17/130)
<b>Structural Loss</b>	See Table Page 12 (MIL-DTL-17/130)	See Table Page 12 (MIL-DTL-17/130)	See Table Page 12 (MIL-DTL-17/130)	See Table Page 12 (MIL-DTL-17/130)

## M17 Approved Cables

<b>DIMENSIONS</b>	<b>M17/130-00012 UT-141-SA-SP-M17</b>	<b>M17/130-00008 UT-141-SA-AL-M17</b>	<b>M17/130-00009 UT-141-AL-TP-M17</b>
<b>Outer Conductor Diameter</b>			
[in]	0.141 + 0.002/ -0.001	0.141 ± 0.001	0.141 + 0.002/ -0.001
[mm]	3.581 + 0.051/ -0.025	3.581 ± 0.025	3.581 + 0.051/ -0.025
<b>Dielectric Diameter</b>			
[in]	0.118 ± 0.001	0.118 ± 0.001	0.118 ± 0.001
[mm]	2.985 ± 0.025	2.985 ± 0.025	2.985 ± 0.025
<b>Center Conductor Diameter</b>			
[in]	0.0362 ± 0.0007	0.0362 ± 0.0007	0.0362 ± 0.0007
[mm]	0.9195 ± 0.0178	0.9195 ± 0.0178	0.9195 ± 0.0127

## MATERIALS

<b>Outer Conductor</b>	SILVER/COPPER	1100 ALUMINUM	TIN/ALUMINUM
<b>Dielectric</b>	PTFE	PTFE	PTFE
<b>Center Conductor</b>	SPCW	SPCW	SPCW
<b>RoHS Compliant</b>	YES	YES	YES

## MECHANICAL CHARACTERISTICS

<b>Max Operating Temp. [°C]</b>	125	125	125
<b>Min. Inside Bend Radius</b>			
[in]	0.075	0.125	0.125
[mm]	1.910	3.175	3.175
<b>Weight</b>			
[lbs/100ft]	3.51	1.88	2.05
[kg/100m]	5.22	2.82	3.08
<b>Dimensional Stability</b>			
<b>Temperature [°C]</b>	125	125	125
<b>Maximum Dimension</b>			
[in]	0.015	0.015	0.015
[mm]	0.380	0.380	0.380
<b>Center Conductor Adhesion</b>			
<b>Minimum lbs</b>	4.00	4.00	4.00
<b>Minimum kg</b>	1.81	1.81	1.81
<b>Maximum lbs</b>	65.00	65.00	65.00
<b>Maximum kg</b>	29.48	29.48	29.48

## ELECTRICAL CHARACTERISTICS

<b>Characteristic Impedance [ohms]</b>	50 ± 1.0	50 ± 1.0	50 ± 1.0
<b>Capacitance [Maximum]</b>			
[pF/ft]	29.9	29.0	29.0
[pF/m]	98.1	95.1	95.1
<b>Corona Extinction Voltage [VRMS @ 60Hz]</b>	1900	1900	1900
<b>Voltage Withstanding [VRMS @ 60Hz]</b>	5000	5000	5000
<b>Operating Frequency [GHz]</b>	20	34	34
<b>Attenuation</b>	See Table Page 12 (MIL-DTL-17/130)	See Table Page 12 (MIL-DTL-17/130)	See Table Page 12 (MIL-DTL-17/130)
<b>Power</b>	See Table Page 12 (MIL-DTL-17/130)	See Table Page 12 (MIL-DTL-17/130)	See Table Page 12 (MIL-DTL-17/130)
<b>Structural Loss</b>	See Table Page 12 (MIL-DTL-17/130)	See Table Page 12 (MIL-DTL-17/130)	See Table Page 12 (MIL-DTL-17/130)

## M17 Approved Cables

### DIMENSIONS

	<b>M17/129-RG-401 UT-250A-M17</b>	<b>M17/129-00001 UT-250A-TP-M17</b>
<b>Outer Conductor Diameter</b>		
[in]	0.250 ± 0.001	0.250 + 0.002/ -0.001
[mm]	6.350 ± 0.025	6.350 + 0.051/ -0.025
<b>Dielectric Diameter</b>		
[in]	0.209 ± 0.002	0.209 ± 0.002
[mm]	5.309 ± 0.051	5.309 ± 0.051
<b>Center Conductor Diameter</b>		
[in]	0.064 ± 0.001	0.064 ± 0.001
[mm]	1.628 ± 0.025	1.628 ± 0.025

### MATERIALS

<b>Outer Conductor</b>	COPPER	TIN/COPPER
<b>Dielectric</b>	PTFE	PTFE
<b>Center Conductor</b>	SPC	SPC
<b>RoHS Compliant</b>	YES	YES

### MECHANICAL CHARACTERISTICS

<b>Operating Temp. Range [°C]</b>	-40 to 90	-40 to 90
<b>Min. Inside Bend Diameter</b>		
[in]	0.75	0.75
[mm]	19.05	19.05
<b>Weight</b>		
[lbs/100ft]	10.5	10.6
[kg/100m]	15.6	15.8
<b>Dimensional Stability</b>		
<b>Temperature [°C]</b>	125	125
<b>Maximum Dimension</b>		
[in]	0.015	0.015
[mm]	0.380	0.380
<b>Center Conductor Adhesion</b>		
<b>Minimum lbs</b>	4.0	4.0
<b>Minimum kg</b>	1.8	1.8
<b>Maximum lbs</b>	100.0	100.0
<b>Maximum kg</b>	45.4	45.4

### ELECTRICAL CHARACTERISTICS

<b>Characteristic Impedance [ohms]</b>	50 ± 0.5	50 ± 0.5
<b>Capacitance [Maximum]</b>		
[pF/ft]	29.6	29.6
[pF/m]	97.1	97.1
<b>Corona Extinction Voltage [VRMS @ 60Hz]</b>	3000	3000
<b>Voltage Withstanding [VRMS @ 60Hz]</b>	7500	7500
<b>Operating Frequency [GHz]</b>	18	18
<b>Attenuation</b>	See Table Page 12 (MIL-DTL-17/129)	See Table Page 12 (MIL-DTL-17/129)
<b>Power</b>	See Table Page 12 (MIL-DTL-17/129)	See Table Page 12 (MIL-DTL-17/129)
<b>Structural Loss</b>	See Table Page 12 (MIL-DTL-17/129)	See Table Page 12 (MIL-DTL-17/129)