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UTiForm™

Features and Benefits

Tin-Dipped, Hand-Formable Microwave Cable

Typically Hand-Formable

- ☑ No complicated bend specifications required
- ☑ Ease of installation—while not truly flexible, cable can be reshaped up to about 10 times.
- ☑ Very good efficient packaging density due to small cable diameter and ability to retain it's shape after being formed.

Available with Low-Density Dielectrics

- ☑ Improved insertion loss
- ☑ Higher operating temperatures
- ☑ Improved phase and IL stability vs. temperature
- ☑ Increased power handling
- ☑ Dedicated connectors available

Easy to Use

- ☑ Accepts standard semi-rigid connectors
- ☑ Cuts and strips with standard semi-rigid machines
- ☑ Form and route at installation
- ☑ Tinned outer conductor for improved solder ability

Performance

- ☑ RF shielding -90 dB (prior to bending)
- ☑ Higher temperature rating than semi-rigid
- ☑ Good attenuation and VSWR

UT — 141 C — 75 — AL — TP — LL

Code	Cable Outer Diameter
Value	Nominal Diameter in Thousandths of an inch. Always 3 digits.

Code	Inner Conductor Material
No Entry or A	Silver-Plated Copper Weld (SPCW)
AL	Aluminum Alloy 1100
B	Silver-Plated Beryllium Copper
C	Silver-Plated Copper (SPC)
SS	Stainless Steel Alloy 304

Code	Character Impedance
No Entry	50 Ohms
Value	Nominal Impedance in Ohms

Code	Outer Conductor Material
No Entry	Copper
AL	Aluminum Alloy 1100
CuSS	Copper / Stainless Steel Composite
SS	Stainless Steel Alloy 304

Code	Outer Conductor Finish
No Entry	No Plating
ED9010	Solder Plating (90% Tin / 10% Lead)
SP	Silver Plating
TP	Tin Plating

Code	Miscellaneous
No Entry	PTFE
ULL	Ultra Low Density
DS	Dimensionally Stable PTFE
F	FEP Insulation Jacket
LL	Low Density PTFE
M	Low Dielectric Compression PTFE
M17	MIL-DTL-17 QPL Cable
Type	Long Length Cable

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www.webb.co.za
webb@webb.co.za

tel .....+27 11 719-0000
fax ....+27 11 444-2288

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DC— - 19 GHz

MICRO-COAX UTiForm™
HAND FORMABLE COAX CABLE

- ☑ Tin-Dipped, Hand-Formable Micro-wave Cable
- ☑ The Formable Alternative to Semi-Rigid or Flexible Microwave Cable
- ☑ Cable Group G9

UT-250C-Form

CXUT250C-FORM

Attenuation at 20°C / 68°F					
@ GHz	0,5	1,0	5,0	10,0	18,0
dB/100m	0,17	0,25		1,03	1,55
dB/100ft	5,7	8,3	20,8	31,9	46,6
W (max.)	1207,2	834,5	341	226,5	157,6

CONSTRUCTION	METRIC	IMPERIAL	MATERIAL
Outer Conductor	Ø 6,35 mm	Ø 0 1/4"	Tin-Dipped Copper Braid
Dielectric	Ø 5,31 mm	Ø 0 13/64"	PTFE
Inner Conductor	Ø 1,6281 mm	Ø 0 1/16"	SPC

ELECTRICAL DATA		
Impedance	50 Ohm (Ω)	
Velocity of Propagation	70%	
Frequency Range	DC - 19 GHz	
Capacitance	< 95,2 pF/m	29 pF/ft
Corona Extinction Voltage	5 600 VRMS @ 60 Hz	
Voltage Withstand	16 800 VRMS @ 60 Hz	
Shielding	See UTiForm™-Graph	
Power Handling	See UTiForm™-Graph	
Insertion Loss	See UTiForm™-Graph	

MECHANICAL DATA		
Bend Radius: min.	12,7 mm	0 1/2"
Bend Radius: Repeated	63,5 mm	2 1/2"
Weight	168 g/m	1,806 oz/ft
Maximum Length	153 m	500 ft

ENVIRONMENTAL DATA		
Operating Temperature	200°C max.	392°F max.
Outer Conductor Integrity	225°C	437°F

RoHS COMPLIANT

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DC - 34 GHz

MICRO-COAX UTiForm ™
HAND FORMABLE COAXIAL CABLE

- ☑ Tin-Dipped, Hand-Formable Micro-wave Cable
- ☑ The Formable Alternative to Semi-Rigid or Flexible Microwave Cable
- ☑ Cable Group G10

UT-141-Form

CXUT141FORM

Attenuation at 20°C / 68°F						
@ GHz	0,5	1,0	5,0	10,0	18,0	26,5
dB/100m	0,28	0,41		1,59	2,34	
dB/100ft	9,8	14,1	33,9	50,3	71,3	90,4
W (max.)	491,7	343,2	145,5	99,1	70,8	56,4

CONSTRUCTION	METRIC	IMPERIAL	MATERIAL
Outer Conductor	Ø 3,56 mm	Ø 0 9/64"	Tin-Dipped SPC Braid
Dielectric	Ø 3,00 mm	Ø 0 1/8"	Solid PTFE
Inner Conductor	Ø 0,91 mm	Ø 0 1/32"	SPCW

ELECTRICAL DATA		
Time Delay	4,76 nS/m	1,45 nS/ft
Impedance	50 Ohm (Ω)	
Velocity of Propagation	70%	
Frequency Range	DC - 30 GHz	
Capacitance	< 8,8 pF/m	29 pF/ft
Maximum Voltage	1 900 V	
Shielding	See UTiForm™-Graph	
Power Handling	See UTiForm™-Graph	
Insertion Loss	See UTiForm™-Graph	

MECHANICAL DATA		
Bend Radius: min.	9,53 mm	0 3/8"
Bend Radius: Repeated	42 mm	1 21/32"
Weight	41,7 g/m	0,45 oz/ft
Maximum Length	305 m	1 000 ft

ENVIRONMENTAL DATA		
Operating Temperature	200°C max.	392°F max.

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fax ....+27 11 444-2288

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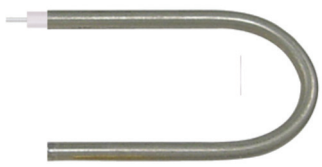
DC - 54 GHz

MICRO-COAX UTiForm™ LOW LOSS HAND FORMABLE COAXIAL CABLE

- ☑ Tin-Dipped, Hand-Formable Micro-wave Cable
- ☑ The Formable Alternative to Semi-Rigid or Flexible Microwave Cable
- ☑ Cable Group G11



UT-085-Form

CXUT85FORM

Attenuation at 20°C / 68°F				
@ GHz	0,5	1	10	18
dB/100m	0,52	0,72	2,62	3,71
dB/100ft	0,16	0,22	0,80	1,13

CONSTRUCTION	METRIC	IMPERIAL	MATERIAL
Outer Conductor	Ø 2,11 mm	Ø 0 5/64"	Tin-Dipped SPC Braid
Dielectric	Ø 1,68 mm	Ø 0 1/16"	Solid PTFE
Inner Conductor	Ø 0,51 mm	Ø 0 1/64"	SPCW

ELECTRICAL DATA		
Time Delay	4,76 nS/m	1,45 nS/ft
Impedance	50 Ohm (Ω)	
Velocity of Propagation	70%	
Frequency Range	DC - 54 GHz	
Capacitance	< 8,8 pF/m	29 pF/ft
Maximum Voltage	1 500 V	
Shielding	See UTiForm™-Graph	
Power Handling	See UTiForm™-Graph	
Insertion Loss	See UTiForm™-Graph	

MECHANICAL DATA		
Bend Radius: min.	3,18 mm	0 1/8"
Bend Radius: Repeated	18 mm	0 45/64"
Weight	12,5 g/m	0,13 oz/ft
Maximum Length	305 m	1 000 ft

ENVIRONMENTAL DATA		
Operating Temperature	200°C max.	392°F max.

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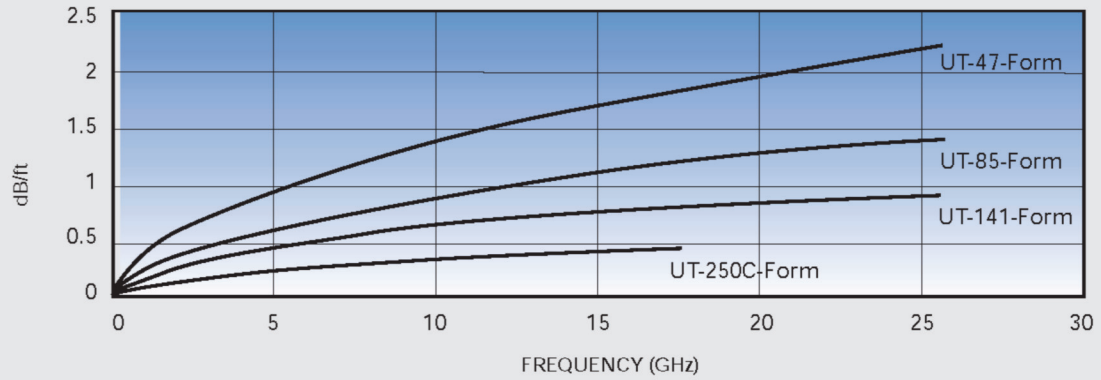
UTiFORM™-Graph

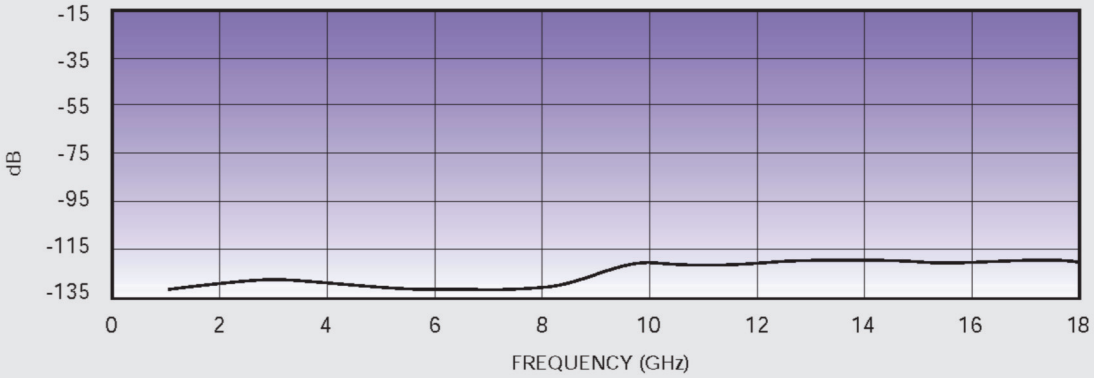
MICRO-COAX UTiForm™
HAND FORMABLE COAXIAL CABLE

MAXIMUM INSERTION LOSS



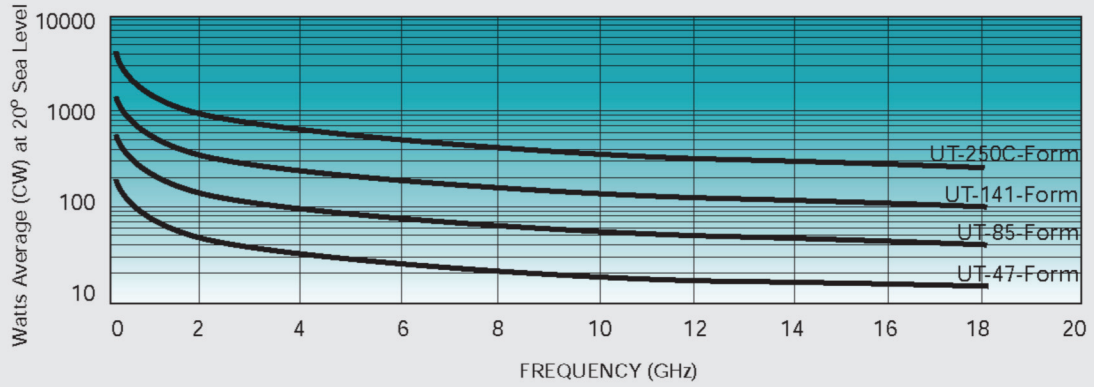
Note: "LL" versions of UT-85-Form and UT-141-Form exhibit up to 10% lower insertion loss depending upon frequency

SHIELDING EFFECTIVENESS



Note: Tested per MIL-STD-1344A, Method 3008

POWER HANDLING



Note: "LL" versions of UT-85-Form and UT-141-Form can handle approximately 10% more power

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