

UTiFORM Hand-Formable Cables

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CarlisleIT Description		UT-141-FORM	UT-141-FORM-F	UT-141C-FORM	UT-141C-FORM-F	UT-250C-FORM	UT-250C-FORM-F
Dimensions	Units						
Jacket Diameter	inch	-	0.161	-	0.161	-	0.277
	millimeter	-	4.089	-	4.089	-	7.036
Outer Conductor Diameter	inch	0.141 +0.002/-0.005	0.141 +0.002/-0.005	0.141 +0.002/-0.005	0.141 +0.002/-0.005	0.250 +0.002/-0.007	0.250 +0.002/-0.007
	millimeter	3.581 +0.051/-0.127	3.581 +0.051/-0.127	3.581 +0.051/-0.127	3.581 +0.051/-0.127	6.350 +0.051/-0.178	6.350 +0.051/-0.178
Dielectric Diameter	inch	0.116 ± 0.002	0.116 ± 0.002	0.116 ± 0.002	0.116 ± 0.002	0.208 ± 0.0025	0.208 ± 0.003
	millimeter	2.934 ± 0.051	2.934 ± 0.051	2.934 ± 0.051	2.934 ± 0.051	5.271 ± 0.064	5.271 ± 0.076
Center Conductor Diameter	inch	0.0362 ± 0.0007	0.0362 ± 0.0007	0.0362 ± 0.0007	0.0362 ± 0.0007	0.0641 ± 0.0006	0.0025 ± 0.0006
	millimeter	0.9195 ± 0.0178	0.9195 ± 0.0178	0.9195 ± 0.0178	0.9195 ± 0.0178	1.6281 ± 0.0152	0.0635 ± 0.0152
Continuous Length (Maximum)	feet	50	50	50	50	50	50
	meter	15.2	15.2	15.2	15.2	15.2	15.2
Materials							
Outer Jacket		-	FEP	-	FEP	-	FEP
Outer Conductor		Tin-Dipped Braid	Tin-Dipped Braid	Tin-Dipped Braid	Tin-Dipped Braid	Tin-Dipped Braid	Tin-Dipped Braid
Dielectric		PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
Center Conductor		SPCW	SPCW	SPC	SPC	SPC	SPC
RoHS Compliant		Yes	Yes	Yes	Yes	Yes	Yes
Mechanical Characteristics							
Operating Temperature (Max.)	°C	200	200	200	200	200	200
Inside Bend Radius (Minimum)	inch	0.375	0.375	0.375	0.375	0.500	0.500
	millimeter	9.525	9.525	9.525	9.525	12.700	12.700
Weight	lbs/100 ft	2.89	3.36	2.93	3.39	9.21	10.31
	kg/100 m	4.34	5.04	4.40	5.09	13.83	15.48
Electrical Characteristics							
Characteristic Impedance	ohm	50	50	50	50	50	50
Capacitance	pF/ft	29	29	29	29	29	29
	pF/m	95	95	95	95	95	95
Velocity of Propagation	%	70	70	70	70	70	70
Maximum Voltage	VRMS @ 60 Hz	1900	1900	1900	1900	3000	3000
Voltage Withstanding	VRMS @ 60 Hz	9300	9300	9300	9300	16800	16800
Signal, Delay	ns/ft	1.45	1.45	1.45	1.45	1.45	1.45
	ns/m	4.76	4.76	4.76	4.76	4.76	4.76
Frequency Range	GHz	DC - 20	DC - 20	DC - 20	DC - 20	DC - 20	DC - 20
Attenuation (dB/100 ft, Typical)	0.5 GHz	9.8	9.8	9.8	9.8	5.7	5.7
	1.0 GHz	14.1	14.1	14.1	14.1	8.3	8.3
	5.0 GHz	33.9	33.9	33.9	33.9	20.8	20.8
	10.0 GHz	50.3	50.3	50.3	50.3	31.9	31.9
	18.0 GHz	71.3	71.3	71.3	71.3	46.6	46.6
Power (Watts CW @ 20 °C, Maximum)	0.5 GHz	491.7	491.7	491.7	491.7	1,207.2	1,207.2
	1.0 GHz	343.2	343.2	343.2	343.2	834.5	834.5
	5.0 GHz	145.5	145.5	145.5	145.5	341.0	341.0
	10.0 GHz	99.1	99.1	99.1	99.1	226.5	226.5
	18.0 GHz	70.8	70.8	70.8	70.8	157.6	157.6