

UTiFORM Hand-Formable Cables

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CarlisleIT Description		UT-047-FORM	UT-047-FORM-F	UT-085-FORM	UT-085-FORM-F	UT-085C-FORM	UT-085C-FORM-F
Dimensions	Units						
Jacket Diameter	inch		0.063	-	0.106	-	0.106
	millimeter		1.600	-	2.692	-	2.692
Outer Conductor Diameter	inch	0.047 ± 0.003	0.047 ± 0.003	0.085 +0.0035/-0.003	0.085 +0.0035/-0.003	0.085 +0.0035/-0.003	0.085 +0.0035/-0.003
	millimeter	1.194 ± 0.076	1.194 ± 0.076	2.159 +0.089/-0.076	2.159 +0.089/-0.076	2.159 +0.089/-0.076	2.159 +0.089/-0.076
Dielectric Diameter	inch	0.034 ± 0.001	0.034 ± 0.001	0.063 ± 0.001	0.063 ± 0.001	0.063 ± 0.001	0.063 ± 0.001
	millimeter	0.864 ± 0.025	0.864 ± 0.025	1.588 ± 0.025	1.588 ± 0.025	1.588 ± 0.025	1.588 ± 0.025
Center Conductor Diameter	inch	0.0113 ± 0.0005	0.0113 ± 0.0005	0.0201 ± 0.0005	0.0201 ± 0.0005	0.0201 ± 0.0005	0.0201 ± 0.0005
	millimeter	0.2870 ± 0.0127	0.2870 ± 0.0127	0.5105 ± 0.0127	0.5105 ± 0.0127	0.5105 ± 0.0127	0.5105 ± 0.0127
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	SPCW	SPCW	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	0.100	0.100	0.125	0.125	0.125	0.125
	millimeter	2.540	2.540	3.175	3.175	3.175	3.175
Weight	lbs/100 ft	0.34	0.47	1.13	1.44	1.15	1.45
	kg/100 m	0.51	0.71	1.70	2.16	1.73	2.18
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	1000	1500	1500	1500	1500	1500
Voltage Withstanding	VRMS @ 60 Hz	2700	2700	4800	4800	4800	4800
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	30.2	30.2	17.1	17.1	17.1	17.1
	1.0 GHz	42.9	42.9	24.4	24.4	24.4	24.4
	5.0 GHz	98.3	98.3	56.9	56.9	56.9	56.9
	10.0 GHz	141.5	141.5	82.9	82.9	82.9	82.9
	18.0 GHz	193.6	193.6	115.1	115.1	115.1	115.1
Power (Watts CW @ 20 °C, Maximum)	0.5 GHz	73.0	73.0	201.5	201.5	201.5	201.5
	1.0 GHz	51.4	51.4	141.4	141.4	141.4	141.4
	5.0 GHz	22.6	22.6	61.3	61.3	61.3	61.3
	10.0 GHz	15.8	15.8	42.4	42.4	42.4	42.4
	18.0 GHz	11.6	11.6	30.8	30.8	30.8	30.8