

UTiFORM Low Loss Hand-Formable Cables

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CarlisleIT Description		UT-085C-FORM-LL	UT-085C-FORM-LL-F	UT-141C-FORM-LL	UT-141C-FORM-LL-F
Dimensions		Units			
Jacket Diameter	inch	0.085 +0.0035/-0.003	0.085 +0.0035/-0.003	0.141 +0.002/-0.005	0.141 +0.002/-0.005
	millimeter	2.159 +0.089/-0.076	2.159 +0.089/-0.076	3.581 +0.051/-0.127	3.581 +0.051/-0.127
Dielectric Diameter	inch	0.067 ± 0.002	0.067 ± 0.002	0.118 ± 0.002	0.118 ± 0.002
	millimeter	1.702 ± 0.051	1.702 ± 0.051	2.985 ± 0.051	2.985 ± 0.051
Center Conductor Diameter	inch	0.0226 ± 0.0005	0.0226 ± 0.0005	0.0403 ± 0.0005	0.0403 ± 0.0005
	millimeter	0.5740 ± 0.0127	0.5740 ± 0.0127	1.0236 ± 0.0127	1.0236 ± 0.0127
Continuous Length (Maximum)	feet	50	50	50	50
	meter	15.2	15.2	15.2	15.2
Materials					
Outer Jacket		-	FEP	-	FEP
Outer Conductor		Tin-Dipped Braid	Tin-Dipped Braid	Tin-Dipped Braid	Tin-Dipped Braid
Dielectric		LD PTFE	LD PTFE	LD PTFE	LD PTFE
Center Conductor		SPC	SPC	SPC	SPC
RoHS Compliant		Yes	Yes	Yes	Yes
Mechanical Characteristics					
Operating Temperature (Max.)	°C	225	225	225	225
Inside Bend Radius (Minimum)	inch	0.250	0.250	0.500	0.500
	millimeter	6.350	6.350	12.700	12.700
Weight	lbs/100 ft	1.11	1.42	2.76	3.23
	kg/100 m	1.67	2.13	4.14	4.85
Electrical Characteristics					
Characteristic Impedance	ohm	50	50	50	50
Capacitance	pF/ft	27	27	27	27
	pF/m	87	87	87	87
Velocity of Propagation	%	77	77	77	77
Maximum Voltage	VRMS @ 60 Hz	1500	1500	1900	1900
Voltage Withstanding	VRMS @ 60 Hz	4800	4800	8400	ss8400
Signal, Delay	ns/ft	1.33	1.33	1.33	1.33
	ns/m	4.33	4.33	4.33	4.33
Frequency Range	GHz	DC - 20	DC - 20	DC - 20	DC - 20
Attenuation (dB/100 ft, Typical)	0.5 GHz	15.5	15.5	8.9	8.9
	1.0 GHz	22.1	22.1	12.6	12.6
	5.0 GHz	50.0	50.0	28.9	28.9
	10.0 GHz	71.4	71.4	41.5	41.5
	18.0 GHz	96.9	96.9	56.8	56.8
Power (Watts CW @ 20 °C, Maximum)	0.5 GHz	223.5	223.5	549.7	549.7
	1.0 GHz	157.7	157.7	387.0	387.0
	5.0 GHz	69.8	69.8	170.1	170.1
	10.0 GHz	49.0	49.0	118.7	118.7
	18.0 GHz	36.2	36.2	87.2	87.2