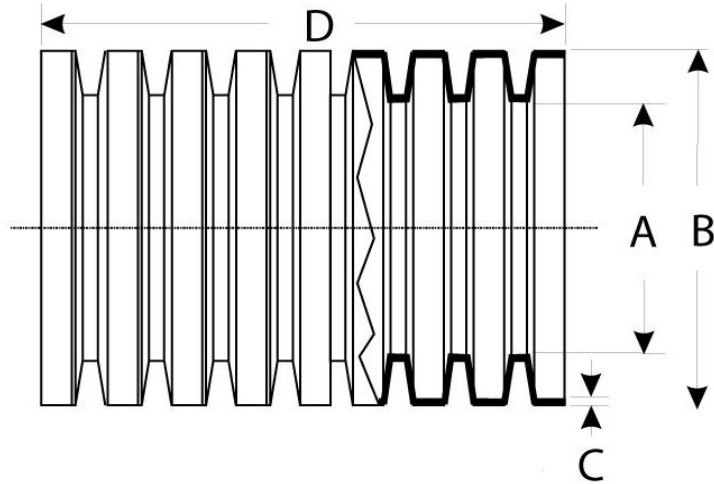


Kable Kontrol® Polypropylene Flame Retardant Wire Loom Tubing

Technical Specifications



Nominal Internal Diameter	Dimension "A" Inside Diameter		Dimension "B" Outside Diameter		Dimension "C" Wall Thickness
	Min	Max	Min	Max	
1/4" (6 mm)	0.237" (6.02 mm)	0.266" (6.76 mm)	0.372" (9.45 mm)	0.400" (10.16 mm)	0.005" (0.12 mm)
3/8" (9 mm)	0.341" (8.66 mm)	0.380" (9.65 mm)	0.496" (12.59 mm)	0.526" (13.36 mm)	0.005" (0.12 mm)
1/2" (13 mm)	0.471" (11.97 mm)	0.515" (13.07 mm)	0.645" (16.39 mm)	0.681" (17.31 mm)	0.005" (0.12 mm)
5/8" (16 mm)	0.603" (15.32 mm)	0.639" (16.23 mm)	0.802" (20.36 mm)	0.837" (21.26 mm)	0.005" (0.12 mm)
3/4" (19 mm)	0.707" (17.96 mm)	0.759" (19.28 mm)	0.950" (24.13 mm)	0.989" (25.12 mm)	0.005" (0.12 mm)
1" (23 mm)	0.897" (22.78 mm)	0.949" (24.10 mm)	1.077" (27.36 mm)	1.109" (28.17 mm)	0.006" (0.15 mm)
1-1/4" (30 mm)	1.199" (30.45 mm)	1.257" (31.93 mm)	1.446" (36.73 mm)	1.500" (38.10 mm)	0.006" (0.15 mm)
1-1/2" (40 mm)	1.566" (39.78 mm)	1.647" (41.83 mm)	1.867" (47.42 mm)	1.947" (49.45 mm)	0.006" (0.15 mm)
2" (51 mm)	1.969" (50.01 mm)	2.038" (51.77 mm)	2.285" (58.04 mm)	2.388" (60.66 mm)	0.011" (0.028 mm)

Flexible convoluted tubing / conduit manufactured from a flame retardant polypropylene resin rated as V2 according to UL-94

Performance Enhancers			
Flame Retardant		Yes	
UV Inhibitor		No	
Heat Stabilizer		Yes	
Performance Characteristics			
Flexibility		Good	
Abrasion Resistance		Good	
Chemical Resistance		Good	
Continuous Operating Temperature		-40 to 125°C (-40 to 257°F) Min. 3000 Hrs	
Short Term Operating Temperature		-40 to 135°C (-40 to 275°F) Max. 168 Hrs	
Typical Physical Properties	Test Method	Value	Units
Specific Gravity/Density	ASTM D792	0.93	-
Elongation @ Break	ASTM D638	10	%
Tensile Strength @ 25C	ASTM D638	23.0 min.	MPa
Flexural Modulus	ASTM D790	1170	MPa
Notched Izod Impact Test			
Material Certifications			
Underwriters Laboratory	UL-94 V2		
FMVSS 302	Max. Burn rate of	101.2mm / min. (1.0 mm thick) Self-extinguishing	

Base Material Chemical Resistance Summary

Material / Chemical	Rating
Engine Coolant	Excellent
Brake Fluid	Poor
Diesel Fuel	Poor
Gas	Poor
Methanol	Excellent
Transmission Fluid	No Data Available
Power Steering	No Data Available
Engine Oil	Good
Engine Cleaner	No Data Available
Antifreeze	Excellent
Windshield Washer	No Data Available
De-Icer / Road Salt	Excellent
Battery Acid	Good
Salt	Excellent
Isopropyl	Excellent
Algae	Excellent
Chlorine	Poor
Salt Water	Excellent
Fresh Water	Excellent

Rating	Effect Description
Excellent Resistant	Possible slight absorption / changes to weight, dimensions, properties. According to current knowledge, no irreversible damage. Negligible effect on mechanical properties.
Good	Minor Effect. Slight change in properties. Small reduction in mechanical properties likely.
Fair	Moderate Effect. Limited resistance. Softening, loss of strength. Prolonged exposure may cause irreversible damage. Material will have limited life.
Poor	Severe Effect. Irreversible damage. Material may decompose or dissolve.
No Data Available	No performance data available for this chemical / material combination.