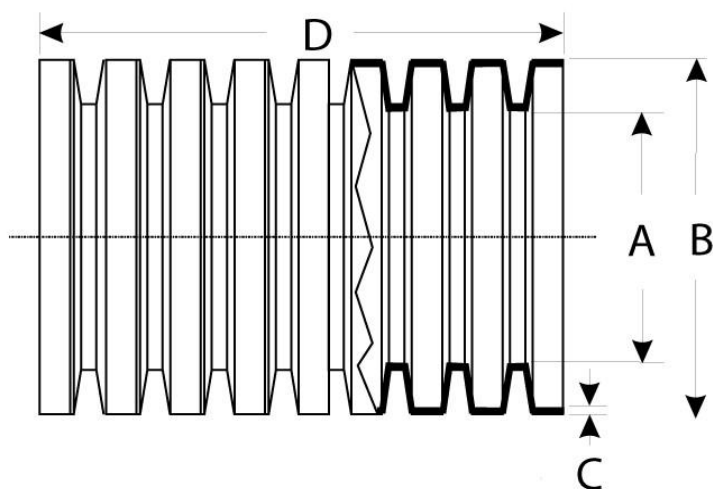


Kable Kontrol® Flame Retardant Wire Loom – Polyethylene Technical Specifications



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)	.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 polyethylene resin rated as V2 according to UL-94

Performance Enhancers			
Flame Retardant		Yes	
UV Inhibitor		No	
Heat Stabilizer		Yes	
Performance Characteristics			
Flexibility		Excellent	
Abrasion Resistance		Good	
Chemical Resistance		Good	
Recommended Operating Upper Temperature		+200°F (93°C)	
Recommended Operating Lower Temperature		-40°F (-40°C)	
Typical Physical Properties	Test Method	Value	Units
Specific Gravity/Density	ASTM D792	1.005	-
Elongation @ Break	ASTM D638	945	%
Elongation @ Yield	ASTM D638	167	%
Tensile Strength @ 25C	ASTM D638	14.99619	MPa
Flexural Modulus	ASTM D790	240	MPa
Melting Point	ASTM D3418	239 (115)	°F (°C)
Notched Izod Impact Test	ASTM D256	10	ft lb/in
Heat Deflection Temperature @66psi	ASTM D648	122 (50)	°F (°C)
Heat Deflection Temperature @264psi	ASTM D648	104 (40)	°F (°C)
Material Certifications			
Underwriters Laboratory	UL-94 V2 @ 1.5 mm		
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	Excellent
Diesel Fuel	Good
Gas	Good
Methanol	Excellent
Transmission Fluid	Excellent
Power Steering	Excellent
Engine Oil	Excellent
Engine Cleaner	Good
Antifreeze	Excellent
Windshield Washer	Excellent
De-Icer / Road Salt	Excellent
Battery Acid	Excellent
Salt	Excellent
Isopropyl	Excellent
Algae	Excellent
Chlorine	Good
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.