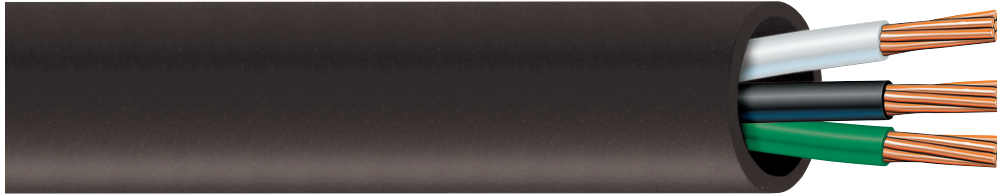


Power Duct™ LSZH Duct

Flame-retardant duct



Applications

LSZH duct is for use in facilities where flammability and smoke generation are a concern. It is a non-metallic duct made of modified polyethylene (PE) with low-smoke and flame-retardant additives.

LSZH duct can be supplied as an empty tube, with a pull line or with Draka cables pre-installed. It is shipped with sealed ends to prevent entry of moisture and other contaminants.

Design Parameters

DUCT: Modified PE with low smoke and flame-retardant additives. Schedule 40 or Schedule 80 duct is available in sizes from

1 to 3 inches in diameter. Different colors and duct with a molded-in longitudinal stripe for identification are available.

Specifications and Ratings

- GR-356-CORE for Fiber Optic Duct
- ASTM D-2447 Standard Specification for Polyethylene (PE) Plastic Pipe, Schedule 40 and 80, Based on Outside Diameter.
- ASTM D-6070 for physical properties
- NEMA TC-7 Compression & Recovery, 85% minimum
- NEMA TC-7 Crush Resistance, NEMA TC-7 Table 4-1
- NEMA TC-7 Impact Test (room temp), NEMA TC-7: No cracks > 30% max
- NEMA TC-7 Limiting Oxygen Index, ASTM D-2863: 28 minimum
- NEMA TC-7 Environmental Stress Cracking, ASTM D-1693, Test Condition C: No cracks > 20% max, 192 hr. exposure, 100% Igepal CO-630
- NEMA TC-7 Vertical Tray Flame Test UL-1581: No propagation

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Flame-retardant duct

Schedule 40 LSZH duct

Nominal Duct Trade Size in (mm)	Outer Diameter in (mm)	Wall Thickness in (mm)	Pipe Weight Lbs/Mft	Minimum Bend Radius in (mm)
1.00 (25.4)	1.315 (33.4)	0.133 (3.4)	309	14 (355)
1.25 (31.8)	1.660 (42.1)	0.140 (3.6)	418	17 (432)
1.50 (38.1)	1.900 (48.3)	0.145 (3.7)	500	19 (483)
2.00 (50.8)	2.375 (60.3)	0.154 (3.9)	670	24 (610)
2.50 (63.5)	2.875 (73.0)	0.203 (5.2)	1047	28 (711)
3.00 (76.2)	3.500 (88.9)	0.216 (5.5)	1366	42 (1067)
3.00 (76.2)	3.04 (77.3)	.215 (5.49)	1015	1495

Schedule 80 LSZH duct

Duct size in (mm)	Outer Diameter in (mm)	Wall Thickness in (mm)	Minimum Physical Properties for all duct sizes	Test Method	Test Requirement
1.00 (25.4)	1.315 (33.4)	0.133 (3.4)	Compression & Recovery	NEMA TC-7	85% minimum
1.25 (31.8)	1.660 (42.1)	0.140 (3.6)	Crush Resistance	NEMA TC-7	NEMA TC-7 Table 4-1
1.50 (38.1)	1.900 (48.3)	0.145 (3.7)	Impact Test (room temp)	NEMA TC-7	No cracks > 30% max
2.00 (50.8)	2.375 (60.3)	0.154 (3.9)	Impact Test (-20° C)	NEMA TC-7	No cracks > 30% max
2.50 (63.5)	2.875 (73.0)	0.203 (5.2)	Limiting Oxygen Index	ASTM D-2863	28 minimum
3.00 (76.2)	3.500 (88.9)	0.216 (5.5)	Environmental Stress Cracking	ASTM D-1693, Test Condition C 192 hr. exposure, 100% Igepal CO-630	No cracks > 20% max
			Vertical Tray Flame Test	UL-1581	No Propagation

The data herein is approximate and subject to normal manufacturing tolerances.

These specifications are subject to change without notice. Consult factory for a variety of alternate constructions for specific applications.

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