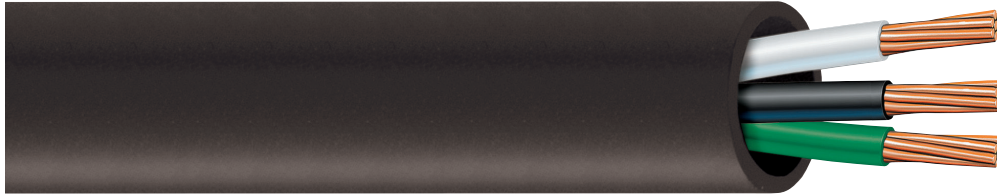


Power Duct™ LSZH Duct

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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Power Duct™ LSZH Duct

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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