

Innerduct Pressure Test Kit

Use the Innerduct Pressure Test Kit to pressure test innerduct before setting up the Fiber Optic Cable Blower. The duct system must be able to withstand and hold 100 psi (6.9 bar) for the cable blower to work properly.

Part Number	Description
08761457	Pressure Test Kit for 1" (32 mm), 1¼" (40 mm) & 1½" (50 mm) SDR 11 & 13.5 Innerduct <ul style="list-style-type: none"> • Control Valve Assembly • Seal-Off Heads • Pulling Eyes • Pulling Grips • Tool Box

Other Components Available

Part Number	Description
08034318	Seal-Off Head for 2.00" (63 mm) SDR 11 & 13.5 Innerduct
08761846	Pulling Eye for 2.00" (63 mm) SDR 11 & 13.5 Innerduct
08643155	Pulling Grip for 2.00" (63 mm) SDR 11 & 13.5 Innerduct
08761458	Control Valve Assembly



Mandrel and Pressure Test Kit

Use the Mandrel and Pressure Test Kit to pressure test 1¼" (40 mm) innerduct. The duct system must not be kinked or crushed and must be able to withstand and hold 100 psi (6.9 bar) for the cable blower to work properly.

Part Number	Description
08761495	Mandrel and Pressure Test Kit for 1¼" (40 mm) Innerduct <ul style="list-style-type: none"> • Seal-Off Control Valve Assembly • Pressure Test Control Valve Assembly • 1¼" (40 mm) Innerduct Seal-Off Head • Test Mandrel for 1¼" (40 mm) Innerduct • Extra Rubber Discs for Test Mandrel • Innerduct Pulling Eye for 1¼" (40 mm) Innerduct • Cable Grip for over 1¼" (40 mm) Innerduct • Tool Box

Other Components Available

Part Number	Description
08761610	Test Mandrel for 1" (32 mm) Innerduct
08761237	Test Mandrel for 1¼" (40 mm) Innerduct
08761383	Test Mandrel for 1½" (50 mm) Innerduct
08020610	Test Mandrel for 2" (63 mm) Innerduct



Why an Airtight Duct?

Duct integrity is essential for a successful cable blowing application. Leaks in the duct can lower pressure and greatly reduce installation distances. The duct system must be able to withstand and maintain 150 psi (10.3 bar) for the cable blower to function properly. Even with minimal leakage, the compressor will not be able to maintain pressure behind the cable carrier. This ultimately can reduce the pulling force of the cable carrier and can increase tractor drive pressure on the cable, resulting in increased cable stress.

Duct integrity should always be tested before attempting cable installation with the cable blower. The duct can be tested with a pressure test kit available from Condux or with the cable blower itself. Either way, an airtight duct system is an absolute necessity for cable blowing.

The main contributors to duct system leaks are the innerduct couplings. Condux recommends using one of the innerduct coupling methods shown on pages 134 - 135.

CABLE CARRIER TENSION CHART

Innerduct Size	Nominal Innerduct I.D. in (mm)	Air Pressure—psi (bar)			
		90 (6.2)	110 (7.6)	130 (9.0)	150 (10.3)
1" SDR 13.5	1.121 (28.5)	89 (395)	109 (483)	128 (571)	148 (659)
1-1/4" SDR 13.5	1.414 (35.9)	141 (629)	173 (768)	204 (908)	236 (1,048)
1-1/2" SDR 13.5	1.618 (41.1)	185 (823)	226 (1,006)	267 (1,189)	308 (1,372)
2" SDR 13.5	2.023 (51.4)	289 (1,287)	354 (1,573)	418 (1,859)	482 (2,145)