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When blowing fiber optic cable using the Sherman & Reilly Superjet, these guidelines should be considered in coordination with:

- [+] Sherman & Reilly’s Superjet operating and cable installation practices
- [+] Manufacturer & Customer cable handling and installation practices
- [+] Compliance to cable specifications: bend radius, pulling tension, operating temperatures, etc.

Technicians must be properly trained to assure proper and safe operation of the Superjet. This is especially important with smaller diameter cable.

### Installation CheckList

- [+] Inspect, clean, and prepare duct.
- [+] Use proper lubricant and amount.
- [+] Use cable guides for cables < 1.0” diameter.
- [+] DO NOT exceed 800 psi pressure on cables < 0.6” diameter.
- [+] Use the proper Cable Sealing Insert and Cable Seal.
- [+] Use air compressor cooler when necessary.
- [+] Install the proper size cable end cap before installation.

## 1.0 Jetting Equipment Setup / Operation

### 1.1 Duct/Conduit Inspection Before Cable Installation

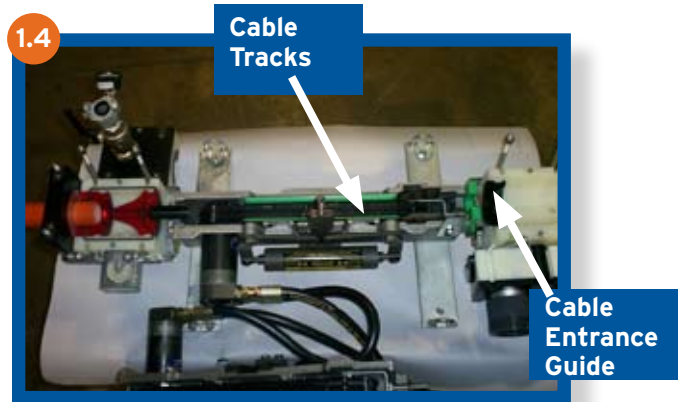
It is recommended to use a foam cylinder to clean duct and remove water and debris prior to cable installation.

### 1.2 Equipment Cleaning & Inspection

Ensure the blowing equipment is clean and in proper working condition. Clean the blowing equipment drive mechanism as often as possible to optimize blowing performance.

### 1.3 Duct Lubricant

Duct lubricant is recommended for cable installation. Refer to Sherman & Reilly’s procedures for recommended lubricant type and amount. Re-apply lubricant as necessary to limit friction and ease cable-blowing installation.

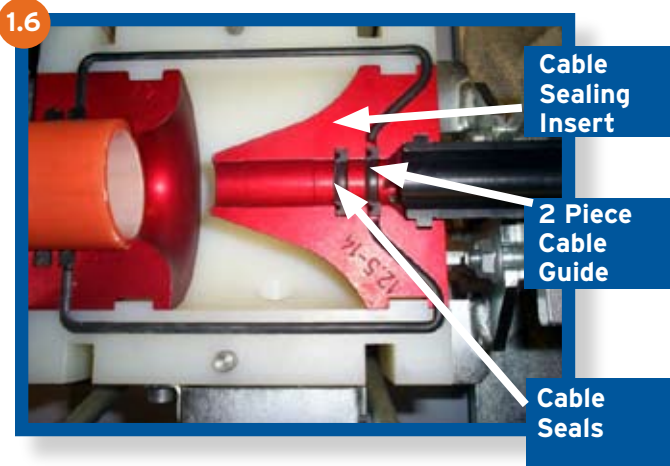


### 1.4 Use Cable Guides for Cable < 1.0” Diameter.

The cable diameter should be measured at several locations and an average diameter determined prior to installation. The equipment should be setup according to the measured average diameter. This measurement should be repeated for each cable reel. Failure to properly setup the machine for the specific cable may result in cable damage.

### 1.5 DO NOT Exceed 800 PSI Pressure on Cable < 0.6” Diameter.

Exceeding this pressure on small diameter cable can result in cable damage.



### 1.6 Use the Proper Size Cable Sealing Insert & Cable Seal.

See the Table on pages 3-4 for the recommended cable sealing insert and cable seal for the specific cable. Always measure the cable diameter and compare against the Superjet operating manual to verify the correct insert and seal is used.

### 1.7 Air Compressor Cooler

Air compressor after-coolers are strongly recommended when the ambient air temperature exceeds 80 F. It is common for the compressed air to exceed 200 F without the use of an after-cooler on a day when the ambient air temperature is near 100 F. The air in the duct should never exceed the maximum cable installation temperature, typically 140 F. Excessively hot air can soften the outer jacket increase, friction, damage the jacket, and limit installation performance.

### 1.8 Cable & Equipment Setup

#### 1.8.1 Pre-installation Cable Inspection

It is recommended prior to installation that the cable be tested using an OTDR and the values recorded prior to installation at 1310 nm and 1550 nm to ensure compliance with attenuation specifications. The cable should also be visually inspected for any defects or damage that may have occurred during shipping and handling. If there are questions or concerns, contact Draka at Call [1-800-879-9862](tel:1-800-879-9862).

#### 1.8.2 Reel Placement

The cable reel should be on a reel trailer, reel jacks, or reel stands located on level ground with reel shafts mounted on ball bearings or bushings. Reels should be center mounted with cones for easy pull-off. The reel should be positioned where the cable coming off the reel minimizes the cable's angle going into the blowing equipment. A person must assist turning the cable reel during the installation to minimize cable tension. This person should be watching the cable reel to ensure no wraps are overlapped and be able to stop the reel in case of emergency to avoid cable damage. The cable should not be allowed to drag across course surfaces that might damage the outer jacket.

### 1.8 Minimum Bend Radius

Do not violate the minimum cable bend radius during handling or cable installation. Refer to data sheets of the manufacturer.

### 1.9 Draka Contact

Should problems occur during cable installation, immediately contact Draka Customer Service immediately at [1-800-879-9862](tel:1-800-879-9862).

### NOTE:

Specific machine settings such as air pressure, flow rates, speed, tension etc. will be determined and provided by the blowing equipment manufacturer. It is the responsibility of the cable installation contractor to determine if the blowing equipment to be used has been tested and authorized for the specific cable to be installed. The cable installation contractor operating the machine must be properly trained on the use of the blowing machine.

## 2.0 Considerations for Optimum Blowing Performance

- [+] Run all machines at consistent speeds
- [+] Do not try to test the limits of the system.
- [+] Maintain proper airflow to "blow" the cable verses "pushing" the cable
- [+] Insure proper airflow before restarting installation
- [+] Clean cable as it enters the SuperJet:
- [+] Install the proper size cable end cap before installation

**ezPREP Loose Tube | Dielectric (Non-Armored)**

Fiber Count	Manufacturer Part Number	SOCC	Diameter inches (mm)		Cable Sealing Insert Size (mm)	Cable Seal
12	F-ETH1JKT-12-ES-012	DC-5B12L-012	0.41	(10.5)	11-12.5	12
18	F-ETH1JKT-12-ES-018	DC-5B12L-018	0.41	(10.5)	11-12.5	12
24	F-ETH1JKT-12-ES-024	DC-5B12L-024	0.41	(10.5)	11-12.5	12
30	F-ETH1JKT-12-ES-030	DC-5B12L-030	0.41	(10.5)	11-12.5	12
36	F-ETH1JKT-12-ES-036	DC-5B12L-036	0.41	(10.5)	11-12.5	12
48	F-ETH1JKT-12-ES-048	DC-5B12L-048	0.41	(10.5)	11-12.5	12
60	F-ETH1JKT-12-ES-060	DC-5B12L-060	0.41	(10.5)	11-12.5	12
72	F-ETH1JKT-12-ES-072	DC-5B12L-072	0.45	(11.4)	11-12.5	12
84	F-ETH1JKT-12-ES-084	DC-5B12L-084	0.48	(12.1)	12.5-14	14
96	F-ETH1JKT-12-ES-096	DC-5B12L-096	0.51	(12.8)	12.5-14	14

[+] DO NOT EXCEED 800 psi hydraulic pressure on cables less than 0.6" diameter

[+] Always use cable guides on any cable less than 1.0" diameter

**ezPREP Loose Tube | Single Jacket Armored (SP)**

Fiber Count	Manufacturer Part Number	SOCC	Diameter inches (mm)		Cable Sealing Insert Size (mm)	Cable Seal
12	F-ETH1A1J-12-ES-012	DC-5BW2LT-012	0.45	(11.5)	11-12.5	12
18	F-ETH1A1J-12-ES-018	DC-5BW2LT-018	0.45	(11.5)	11-12.5	12
24	F-ETH1A1J-12-ES-024	DC-5BW2LT-024	0.45	(11.5)	11-12.5	12
30	F-ETH1A1J-12-ES-030	DC-5BW2LT-030	0.45	(11.5)	11-12.5	12
36	F-ETH1A1J-12-ES-036	DC-5BW2LT-036	0.45	(11.5)	11-12.5	12
48	F-ETH1A1J-12-ES-048	DC-5BW2LT-048	0.45	(11.5)	11-12.5	12
60	F-ETH1A1J-12-ES-060	DC-5BW2LT-060	0.45	(11.5)	11-12.5	12
72	F-ETH1A1J-12-ES-072	DC-5BW2LT-072	0.50	(12.7)	12.5-14	14
84	F-ETH1A1J-12-ES-084	DC-5BW2LT-084	0.53	(13.5)	12.5-14	14
96	F-ETH1A1J-12-ES-096	DC-5BW2LT-096	0.56	(14.2)	14-15.5	15

[+] DO NOT EXCEED 800 psi hydraulic pressure on cables less than 0.6" diameter

[+] Always use cable guides on any cable less than 1.0" diameter

**ezPREP Loose Tube | Double Jacket Double Armored (SPSP)**

Fiber Count	Manufacturer Part Number	SOCC	Diameter inches (mm)		Cable Sealing Insert Size	Cable Seal
12	F-ETH2A2J-12-ES-012	DC-5BV2LT-012	0.62	(15.8)	15.5-18	16
18	F-ETH2A2J-12-ES-018	DC-5BV2LT-018	0.62	(15.8)	15.5-18	16
24	F-ETH2A2J-12-ES-024	DC-5BV2LT-024	0.62	(15.8)	15.5-18	16
30	F-ETH2A2J-12-ES-030	DC-5BV2LT-030	0.62	(15.8)	15.5-18	16
36	F-ETH2A2J-12-ES-036	DC-5BV2LT-036	0.62	(15.8)	15.5-18	16
48	F-ETH2A2J-12-ES-048	DC-5BV2LT-048	0.62	(15.8)	15.5-18	16
60	F-ETH2A2J-12-ES-060	DC-5BV2LT-060	0.62	(15.8)	15.5-18	16
72	F-ETH2A2J-12-ES-072	DC-5BV2LT-072	0.66	(16.8)	17.5-22	18
84	F-ETH2A2J-12-ES-084	DC-5BV2LT-084	0.69	(17.6)	17.5-22	18
96	F-ETH2A2J-12-ES-096	DC-5BV2LT-096	0.72	(18.4)	15.5-18	19

[+] Always use cable guides on any cable less than 1.0" diameter

**ezPREP Loose Tube | Indoor-Outdoor Riser, Dielectric (Non-Armored)**

Fiber Count	Manufacturer Part Number	SOCC	Diameter inches (mm)	Cable Sealing Insert Size (mm)	Cable Seal
12	F-DRLTBYS-12-ES-012	DC-5B42LT-012	0.44 (11.2)	11-12.5	12
18	F-DRLTBYS-12-ES-018	DC-5B42LT-018	0.44 (11.2)	11-12.5	12
24	F-DRLTBYS-12-ES-024	DC-5B42LT-024	0.44 (11.2)	11-12.5	12
30	F-DRLTBYS-12-ES-030	DC-5B42LT-030	0.44 (11.2)	11-12.5	12
36	F-DRLTBYS-12-ES-036	DC-5B42LT-036	0.44 (11.2)	11-12.5	12
48	F-DRLTBYS-12-ES-048	DC-5B42LT-048	0.44 (11.2)	11-12.5	12
60	F-DRLTBYS-12-ES-060	DC-5B42LT-060	0.44 (11.2)	11-12.5	12
72	F-DRLTBYS-12-ES-072	DC-5B42LT-072	0.44 (11.2)	11-12.5	12
84	F-DRLTBYS-12-ES-084	DC-5B42LT-084	0.47 (11.9)	11-12.5	12
96	F-DRLTBYS-12-ES-096	DC-5B42LT-096	0.51 (13.0)	12.5-14	14
108	F-DRLTBYS-12-ES-108	DC-5B42LT-108	0.54 (13.7)	12.5-14	14
120	F-DRLTBYS-12-ES-120	DC-5B42LT-120	0.58 (14.7)	14-15.5	15
132	F-DRLTBYS-12-ES-132	DC-5B42LT-132	0.62 (15.7)	15.5-18	16
144	F-DRLTBYS-12-ES-144	DC-5B42LT-144	0.69 (17.5)	17.5-22	18
168	F-DRLTBYS-12-ES-168	DC-5B42LT-168	0.69 (17.5)	15.5-18	18
192	F-DRLTBYS-12-ES-192	DC-5B42LT-192	0.69 (17.5)	15.5-18	18
216	F-DRLTBYS-12-ES-216	DC-5B42LT-216	0.69 (17.5)	15.5-18	18
240	F-DRLTBYS-12-ES-240	DC-5B42LT-240	0.76 (19.3)	17.5-22	20
264	F-DRLTBYS-12-ES-264	DC-5B42LT-264	0.76 (19.3)	17.5-22	20
288	F-DRLTBYS-12-ES-288	DC-5B42LT-288	0.80 (20.3)	17.5-22	22

- [+] Be careful with 12-36 fiber count cables in this diameter.
- [+] USE EXTREME CAUTION when using Hydraulic SuperJet. Sonic Head may be needed.
- [+] DO NOT EXCEED 800 psi hydraulic pressure on cables less than 0.6" diameter.
- [+] Always use cable guides on any cable less than 1.0" diameter.

**ezRIBBON | Dielectric (Non-Armored)**      **Central Tube 72-216 fibers**  
**Stranded Tube >432 fibers**

Fiber Count	Manufacturer Part Number	SOCC	Diameter inches (mm)	Cable Sealing Insert Size (mm)	Cable Seal
72	F-CR21JKT-12-ES-072	DC-5492RT-072	0.55 (14.0)	12.5-14	14
96	F-CR21JKT-12-ES-096	DC-5492RT-096	0.61 (15.5)	15.5-18	16
144	F-CR21JKT-12-ES-144	DC-5492RT-144	0.61 (15.5)	15.5-18	16
216	F-CR21JKT-12-ES-216	DC-5492RT-216	0.71 (18.0)	15.5-18	19
504	F-SRS1JKT-12-ES-504	DC-5412NT-504	1.04 (26.4)	24-28	28
576	F-SRS1JKT-12-ES-576	DC-5412NT-576	1.04 (26.4)	24-28	28
648	F-SRS1JKT-12-ES-648	DC-5412NT-648	1.04 (26.4)	24-28	28
720	F-SRS1JKT-12-ES-720	DC-5412NT-720	1.04 (26.4)	24-28	28
792	F-SRS1JKT-12-ES-792	DC-5412NT-792	1.04 (26.4)	24-28	28
864	F-CR21JKT-12-ES-864	DC-5412NT-864	1.04 (26.4)	24-28	28

- [+] Always use cable guides on any cable less than 1.0" diameter

**ezRIBBON | Single Jacket Armored (SP)**      **Central Tube 72-216 fibers**  
**Stranded Tube >432 fibers**

Fiber Count	Manufacturer Part Number	SOCC	Diameter inches (mm)	Cable Sealing Insert Size (mm)	Cable Seal
72	F-CR21A1J-12-ES-072	DC-54Q2RT-072	0.57 (14.4mm)	14.5-15.5	15
96	F-CR21A1J-12-ES-096	DC-54Q2RT-096	0.62 (15.6mm)	15.5-18	16
144	F-CR21A1J-12-ES-144	DC-54Q2RT-144	0.62 (15.6mm)	15.5-18	16
216	F-CR21A1J-12-ES-216	DC-54Q2RT-216	0.72 (18.2mm)	15.5-18	19
504	F-SRS1A1J-12-ES-504	DC-54W2NT-504	1.18 (30.0mm)	28-32	30
576	F-SRS1A1J-12-ES-576	DC-54W2NT-576	1.18 (30.0mm)	28-32	30
648	F-SRS1A1J-12-ES-648	DC-54W2NT-648	1.18 (30.0mm)	28-32	30
720	F-SRS1A1J-12-ES-720	DC-54W2NT-720	1.18 (30.0mm)	28-32	30
792	F-SRS1A1J-12-ES-792	DC-54W2NT-792	1.18 (30.0mm)	28-32	30
864	F-SRS1A1J-12-ES-864	DC-54W2NT-864	1.18 (30.0mm)	28-32	30

- [+] Always use cable guides on any cable less than 1.0" diameter.
- [+] Green Cable Guides on the Superjet may need to be removed on cables larger than 1.0" diameter.