J-Line™
Jacketed Tubing

Industry standard tubing with an extruded SV47 jacket is used in applications where additional mechanical protection is required. J-Line is not insulated or heated.

J-Line tubing is ideal for pneumatic and hydraulic applications. Industry standard tubing coated with O'Brien SV47 polymer provides increased mechanical protection as well as cushioning the tube against wear from vibration.

Uses:

Instrument air
Pneumatic process control lines
Municipal water wells
Down-hole chemical injection
Chemical injection
Seal water feed lines
Direct burial
Windblown sand

Availability:

J-Line is available in prepackaged cut-to-length sections and long continuous bulk coil either directly from O'Brien or through your local distributor. Standard materials are copper and welded or seamless 316/316L stainless steel.

Installation:

Install J-Line as you would ordinary tubing with the following exceptions:
Bending: Use the next size larger tube bender to accommodate the jacket thickness. (eg for 3/8" tube use a 1/2" tube bender) The slip shoe and jacket should be well lubricated to prevent tearing of the jacket.
Fittings: The SV47 protective jacket is removed to accommodate standard compression fittings.

Available materials and sizes:

(consult factory for other sizes and materials)

Copper

Grade - C12200
ASTM - B-68, B-75

J2	1/4" OD x 0.030 wall
C3	3/8" OD x 0.032 wall
D4	1/2" OD x 0.035 wall
MD6	6mm OD x 1mm wall
MD8	8mm OD x 1mm wall
MD12	12mm OD x 1mm wall

Stainless Steel

Grade – 316/316L
ASTM – A-269, A-450 & A-213 EAW (Seamless Only)
Metric tube also meets – DIN 17458 1.4401/1.4404

Welded

A2	1/4" OD x 0.035 wall
A3	3/8" OD x 0.035 wall
A4	1/2" OD x 0.035 wall

Seamless

F2	1/4" OD x 0.035 wall
F3	3/8" OD x 0.035 wall
F4	1/2" OD x 0.035 wall
B4	1/2" OD x 0.049 wall
MF6	6mm OD x 1mm wall
MF8	8mm OD x 1mm wall
MF12	12mm OD x 1mm wall
MB12	12mm OD x 1.5mm wall

J-Line
Jacketed Tubing

SV47 Jacket

SV47 is a proprietary thermoplastic formulation that exceeds the requirements of 105C PVC and outperforms other PVC jacket materials in UV resistance as well as providing low temperature flexibility to –30°/-35°C.

	Standard 105C PVC	**O'Brien SV47**
Abrasion Resistance	G	G
Tensile Strength PSI	18-1900	2200
Elongation %	250	350
Hardness, Shore A	85-90	80
Minimum Installation Temperature	15°F/-9°C	-30°F/-35°C
UL94 Flame	V2	V2
Halogenated (Chlorides)	YES	YES
Maximum Service Temperature	220°F/ 105°C	220°F/ 105°C
Water Absorption %	0.1%	0.1%
Aromatic Hydrocarbons	F	F
Weathering	G	G
UV Resistance	F	G

© 2012 by AMETEK, Inc. All rights reserved. · QLT-JLINE · 15 APR 12

Specifications subject to change without notice.

© 2012, by AMETEK, Inc. All rights reserved • QLT-AME-OB-FAMILY • 23 MAR 12