



jaguar industries inc

• WIRE • CABLE • TUBING

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SHRINK TUBING J-300

MIL-I-23053/4

DESCRIPTION: JAGUAR J-300 TUBING IS AN ELECTRICAL GRADE SEMI-RIGID, CO-EXTRUDED TUBING THAT PROVIDES A MELTABLE INNER WALL. IT IS RATED FOR CONTINUOUS OPERATION AT -55°C TO 110°C AND CAN STAND ELEVATED TEMPERATURES FOR BRIEF PERIODS. WHEN HEATED ABOVE 135°C, THE INNER MELTABLE WALL SOFTENS AND IS FORCED INTO CONTACT WITH THE COVERED PRODUCT AS THE OUTER TUBE SHRINKS. WHEN THE J-300 TUBING COOLS, IT PROVIDES A TOUGH COATING THAT IS VERY RESISTANT TO CHEMICALS AND MOISTURE. TYPICAL APPLICATIONS INCLUDE ELECTRICAL AND MECHANICAL ASSEMBLIES, BREAKOUTS AND END SEALING OF CABLES AND RIGID TUBINGS.

SPECIFICATIONS: MIL-I-23053/4, CLASS 1; AMS-3634.

MATERIAL: ADHESIVE-LINED POLYOLEFIN, SHRINK RATIO 2.5:1.

TEMPERATURE RATING: -55°C TO 110°C.

STANDARD COLORS: BLACK. IN ADDITION, THE FOLLOWING COLORS ARE AVAILABLE IN THE SIZES LISTED: 1/8" - BROWN, 3/16" - GRAY, 1/4" - WHITE, 3/10" - BLUE, 3/8" - RED, 1/2" - BLUE, 3/4" - YELLOW. OTHER COLORS AVAILABLE ON SPECIAL ORDER SUBJECT TO MINIMUM QUANTITIES.

PACKAGING: 4 FOOT LENGTHS.*

ORDERING INFORMATION: SPECIFY JAGUAR CATALOG NO. AND COLOR.

CATALOG NO. 4 FT LENGTHS	ORDER SIZE in.	EXPANDED I.D.		RECOVERED I.D.		TOTAL RECOVERED WALL THICKNESS (NOMINAL)		MELTABLE RECOVERED WALL THICKNESS (NOMINAL)	
		in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)
J-300 LU 1/8	1/8	.125	(3,18)	.023	(0,58)	.038	(0,97)	.020	(0,51)
J-300 LU 3/16	3/16	.187	(4,75)	.060	(1,52)	.043	(1,09)	.025	(0,64)
J-300 LU 1/4	1/4	.250	(6,35)	.080	(2,03)	.047	(1,19)	.027	(0,69)
J-300 LU 3/10	3/10	.300	(7,62)	.050	(1,27)	.100	(2,54)	.065	(1,65)
J-300 LU 3/8	3/8	.375	(9,53)	.130	(3,30)	.050	(1,27)	.030	(0,76)
J-300 LU 1/2	1/2	.500	(12,70)	.195	(4,95)	.055	(1,40)	.035	(0,89)
J-300 LU 3/4	3/4	.750	(19,05)	.313	(7,95)	.065	(1,65)	.040	(1,02)
J-300 LU 1	1	1.000	(25,40)	.400	(10,16)	.075	(1,91)	.040	(1,02)

* ALSO AVAILABLE AS CUT PIECES, CONSULT FACTORY.

TYPICAL PROPERTIES

PHYSICAL

TENSILE STRENGTH	2200 PSI
ULTIMATE ELONGATION	400%
LONGITUDINAL CHANGE	+1,-10%
SECANT MODULUS (2%)	27,000 PSI
SPECIFIC GRAVITY	1.0 [†]
HEAT AGING (168 HRS. @ 175°C)	ELONGATION 175%

[†] HEAT SHOCK
(4 HRS. @ 250°C)

NO DRIPPING,
FLOWING
OR CRACKING

[†] LOW TEMPERATURE FLEXIBILITY
(4 HRS. @ -55°C)

NO CRACKING

ELECTRICAL

DIELECTRIC STRENGTH	900 V/MIL
VOLUME RESISTIVITY	10 ¹⁵ OHM-CM

CHEMICAL

CORROSIVE EFFECT	NON-CORROSIVE
FUNGUS RESISTANCE	NON-NUTRIENT
WATER ABSORPTION	0.1%
FLUID RESISTANCE	
JR4 SKYDROL 600	
SOLUTION GASOLINE	>1500 PSI
HYDRAULIC FLUID	600 V/MIL

[†] OUTER WALL ONLY.

PROPERTIES INFORMATION IS TYPICAL DATA ONLY AND SHOULD NOT BE USED FOR SPECIFICATION REQUIREMENTS.