



# jaguar industries inc

• WIRE • CABLE • TUBING

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## SHRINK TUBING J-321

## MIL-I-23053/4

**DESCRIPTION:** JAGUAR J-321 TUBING IS AN ELECTRICAL GRADE FLEXIBLE POLYOLEFIN OVER A THIN LAYER OF THERMOPLASTIC ADHESIVE. IT IS RATED FOR CONTINUOUS OPERATION AT -55°C TO 110°C. WHEN HEATED ABOVE 121°C, THE ADHESIVE MELTS AND IS FORCED INTO CONTACT WITH THE COVERED PRODUCT AS THE OUTER TUBE SHRINKS. WHEN THE J-321 TUBING COOLS, THE ADHESIVE SOLIDIFIES AND FORMS A FLEXIBLE WATERPROOF BARRIER. TYPICAL APPLICATIONS INCLUDE COVERING OF MARINE AND WIRE SPLICES AND PROTECTION OF COMPONENTS. BLACK AND RED ARE FLAME-RETARDANT.

**SPECIFICATION:** MIL-I-23053/4, CLASS 3 (BLACK AND RED ONLY).

**MATERIAL:** ADHESIVE-LINED POLYOLEFIN, SHRINK RATIO 3:1.

**TEMPERATURE RATING:** -55°C TO 110°C.

**STANDARD COLORS:** (FLAME-RETARDANT) 3/16" - 1 1/2" BLACK; 1/2", 3/4", 1" RED. (NON FLAME-RETARDANT) 3/16" - 1 1/2" CLEAR.

**PACKAGING:** 4 FOOT LENGTHS.\*

**ORDERING INFORMATION:** SPECIFY JAGUAR CATALOG NO. AND COLOR.

CATALOG NO.	ORDER SIZE	EXPANDED I.D.		RECOVERED I.D.		TOTAL RECOVERED WALL THICKNESS (NOMINAL)		MELTABLE RECOVERED WALL THICKNESS (NOMINAL)	
		MINIMUM	(mm)	MAXIMUM	(mm)	in.	(mm)	in.	(mm)
J-321 LU 3/16	3/16	.187	(4,75)	.062	(1,57)	.040	(1,02)	.020	(0,51)
J-321 LU 1/4	1/4	.250	(6,35)	.080	(2,03)	.040	(1,02)	.020	(0,51)
J-321 LU 3/8	3/8	.375	(9,53)	.120	(3,05)	.055	(1,40)	.025	(0,64)
J-321 LU 1/2	1/2	.500	(12,70)	.160	(4,06)	.070	(1,78)	.030	(0,76)
J-321 LU 3/4	3/4	.750	(19,05)	.250	(6,35)	.085	(2,16)	.035	(0,89)
J-321 LU 1	1	1.000	(25,40)	.320	(8,13)	.100	(2,54)	.040	(1,02)
J-321 LU 1-1/2	1-1/2	1.570	(39,38)	.510	(12,95)	.100	(2,54)	.040	(1,02)

\* ALSO AVAILABLE AS CUT PIECES, CONSULT FACTORY.

## TYPICAL PROPERTIES

### PHYSICAL

TENSILE STRENGTH 2100 PSI  
ULTIMATE ELONGATION 450%  
LONGITUDINAL CHANGE +1,-15%  
SECANT MODULUS (2%) 17,000 PSI  
SPECIFIC GRAVITY 1.3

† HEAT AGING ELONGATION  
(168 HRS. @ 175°C) 175%

† HEAT SHOCK NO DRIPPING,  
(4 HRS. @ 225°C) FLOWING  
OR CRACKING

† OUTER WALL ONLY.

### † LOW TEMPERATURE FLEXIBILITY

(4 HRS. @ -55°C) NO CRACKING  
FLAMMABILITY SELF EXTINGUISH  
MEETS UL 224  
ALL-TUBING  
FLAME TEST(JACKET)

### ELECTRICAL

DIELECTRIC STRENGTH 700 V/MIL  
VOLUME RESISTIVITY 10<sup>14</sup> OHM-CM

### CHEMICAL

CORROSIVE EFFECT NON-CORROSIVE  
FUNGUS RESISTANCE NON-NUTRIENT  
WATER ABSORPTION 0.3%  
FLUID RESISTANCE EXCELLENT

### ADHESIVE

PEEL STRENGTH, PLI  
POLYETHYLENE 30  
PVC 10  
LEAD 15  
ALUMINUM 40  
CORROSIVE EFFECT NON-CORROSIVE

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