



jaguar industries inc.

• WIRE • CABLE • TUBING

380 ROUTE 210, P.O. BOX 444 STONY POINT, N.Y. 10980
OUTSIDE NEW YORK STATE CALL TOLL FREE 1-800-443-6528

845-947-1800
FAX 845-947-1712

SHRINK TUBING J-221

MIL-I-23053/5

DESCRIPTION: JAGUAR J-221 SHRINK TUBING IS AN ELECTRICAL GRADE POLYOLEFIN PRODUCT RATED FOR -55°C TO 135°C CONTINUOUS OPERATION AND CAN STAND ELEVATED TEMPERATURES OF 300°C FOR SHORT PERIODS. IT IS TYPICALLY USED AS A SHRINK FIT WIRE HARNESS COVER AND INSULATOR OVER SPLICES AND TERMINATIONS. MINIMUM SHRINK TEMPERATURE IS 121°C.

SPECIFICATIONS: MIL-I-23053/5, CLASS 1, 2; AMS-3636; AMS-3637; UL; CSA.

MATERIAL: POLYOLEFIN, SHRINK RATIO 2:1, UNPRINTED.[†]

TEMPERATURE RATING: -55°C TO 135°C.

STANDARD COLORS: (CLASS 1, FLAME RETARDANT) 3/64" - 4" BLACK, WHITE, RED, BLUE, YELLOW, OTHER COLORS AVAILABLE. 5" BLACK ONLY. (CLASS 2, NON-FLAME RETARDANT) 3/64" - 5" CLEAR.

PACKAGING: 4 FOOT LENGTHS AND REELS.*

ORDERING INFORMATION: SPECIFY JAGUAR CATALOG NO., PACKAGING AND COLOR CODE.

CATALOG NO. 4 FT LENGTHS	CATALOG NO. REELS	ORDER SIZE in.	EXPANDED I.D. (MINIMUM) in. (mm)	RECOVERED I.D. (MAXIMUM) in. (mm)	RECOVERED WALL (NOMINAL) in. (mm)
J-221 LU 3/64	J-221 RU 3/64	3/64	.046 (1,17)	.023 (0,58)	.016 (0,41)
J-221 LU 1/16	J-221 RU 1/16	1/16	.063 (1,60)	.031 (0,79)	.017 (0,43)
J-221 LU 3/32	J-221 RU 3/32	3/32	.093 (2,36)	.046 (1,17)	.020 (0,51)
J-221 LU 1/8	J-221 RU 1/8	1/8	.125 (3,18)	.062 (1,57)	.020 (0,51)
J-221 LU 3/16	J-221 RU 3/16	3/16	.187 (4,75)	.093 (2,36)	.020 (0,51)
J-221 LU 1/4	J-221 RU 1/4	1/4	.250 (6,35)	.125 (3,18)	.025 (0,64)
J-221 LU 3/8	J-221 RU 3/8	3/8	.375 (9,53)	.187 (4,75)	.025 (0,64)
J-221 LU 1/2	J-221 RU 1/2	1/2	.500 (12,70)	.250 (6,35)	.025 (0,64)
J-221 LU 3/4	J-221 RU 3/4	3/4	.750 (19,05)	.375 (9,53)	.030 (0,76)
J-221 LU 1	J-221 RU 1	1	1.000 (25,40)	.500 (12,70)	.035 (0,89)
J-221 LU 1 1/2	J-221 RU 1 1/2	1 1/2	1.500 (38,10)	.750 (19,05)	.040 (1,02)
J-221 LU 2	J-221 RU 2	2	2.000 (50,80)	1.000 (25,40)	.045 (1,14)
J-221 LU 3	J-221 RU 3	3	3.000 (76,20)	1.500 (38,10)	.050 (1,27)
J-221 LU 4	J-221 RU 4	4	4.000 (101,60)	2.000 (50,80)	.055 (1,40)
J-221 LU 5	J-221 RU 5	5	5.000 (127,00)	2.500 (63,50)	.060 (1,52)

[†] PRINTING IS AVAILABLE, CONSULT FACTORY IF REQUIRED.

* ALSO AVAILABLE AS CUT PIECES, CONSULT FACTORY.

TYPICAL PROPERTIES

PHYSICAL

TENSILE STRENGTH	2400 PSI
ULTIMATE ELONGATION	400%
LONGITUDINAL CHANGE	± 5%
SECANT MODULUS (2%)	1.7X10 ⁴ PSI
SPECIFIC GRAVITY	1.3 (BLACK) .93 (CLEAR)
HEAT AGING (336 HRS. @ 175° C)	ELONGATION 175%

HEAT SHOCK
(4 HRS @ 250° C)
NO DRIPPING
OR CRACKING
PASSES MANDREL WRAP TEST
LOW TEMPERATURE FLEXIBILITY
(4 HRS @ -55° C)
NO CRACKING
FLAMMABILITY
SELF EXTINGUISH
MEETS UL 224 ALL-TUBING
FLAME TEST (CLASS 1 ONLY)

ELECTRICAL

DIELECTRIC STRENGTH
900 V/MIL
VOLUME RESISTIVITY
10¹⁵ OHM-CM
CHEMICAL
CORROSIVE EFFECT
NON-CORROSIVE
SOLVENT RESISTANCE
TENSILE STRENGTH
1000 PSI
DIELECTRIC STRENGTH
400 V/MIL
WATER ABSORPTION
0.2%
FUNGUS RESISTANCE
NON-NUTRIENT

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