

**SECTION B-B**  
BOOT & CLAMPS REMOVED FOR CLARITY

**SECTION A-A**  
BOOT & CLAMPS REMOVED FOR CLARITY

NOTES(S), UNLESS OTHERWISE SPECIFIED.

(1) REF., FINISH: ALL EXTERNAL STEEL COMPONENTS CADMIUM PLATED I.A.W. SAE-AMS-QQ-P-416, TYPE II (YELLOW CHROMATE), CLASS 2.

2 IDENTIFICATION: ELECTRO-ETCH or LASER MARK ASSEMBLY w/ NAME, PART NUMBER, MANUFACTURER CAGE CODE, DATE OF MFR, & BELDEN JOB No.

BELDEN  
MS20271B8  
1R6X2 (MO/YR)  
(BELDEN JOB No.)

(3) LUBRICATION: LUBRICANT TO CONSIST OF A UNIFORM MIXTURE OF GREASE CONFORMING TO MIL-PRF-32014 or MIL-PRF-81322 WITH A 6% (± 1/2%) BY WEIGHT ADDITIVE CONFORMING TO SAE-AMS-M-7866 LUBRICANT, MOLYBDENUM DISULFIDE.

(4) CLOSURE (BOOT): MUST BE RESISTANT TO OZONE CRACKING AND BE ABLE TO RETAIN THE LUBRICANT AT ALL TEMPERATURES BETWEEN -67° FAHRENHEIT [-55°C] AND 160° FAHRENHEIT [71°C] DURING OPERATION.

(5) ANGULARITY: MUST BE OPERABLE TO A MINIMUM ANGLE OF 30°.

(6) MAXIMUM ALLOWABLE TORSIONAL PLAY (BACKLASH): 0.62° (± 2%) @ 4 IN-LBS (± 2%).

(7) MAXIMUM ALLOWABLE END PLAY: 0.0027" TOTAL WITH A 5 LB LOAD APPLIED IN BOTH DIRECTIONS WITHOUT LUBRICANT OR COVER.

(8) MAXIMUM ALLOWABLE SIDE PLAY: 0.0055" TOTAL WITH A 5 LB LOAD APPLIED IN BOTH DIRECTIONS WITHOUT LUBRICANT OR COVER.

(9) ULTIMATE STATIC TORQUE: 600 IN-LBS (± 2%).

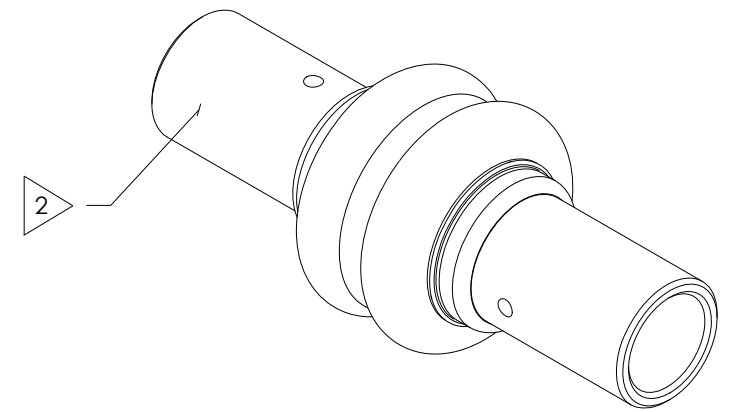
(10) ULTIMATE TENSILE OR COMPRESSIVE STRENGTH: 1,000 LBS (± 2%).

(11) DYNAMIC TORQUE ENDURANCE TEST: 90 IN-LBS (± 2%) AT 120 RPM AND A 15° ANGLE FOR 5 HOURS.

(12) UNIVERSAL JOINT DESIGNED I.A.W. MIL-DTL-6193, CLASS 2, TYPE B, AND MS20271.

(13) FLAG NOTES A, B, C ... CORRESPOND TO DIMENSIONS AS LABELED ON SPECIFICATION MS20271.

**FOR  
REFERENCE  
ONLY**



**SCALE 3 : 1**

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED CHAMFER ALL HOLES BREAK ALL SHARP CORNERS DE-BURR ALL FEATURES	STANDARD TOLERANCES, UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (mm)	MATERIAL:	INITIALS	DATE	Belden Universal www.beldenuniversal.com
		ALLOY STEEL	RNK	08FEB96	
TURNED SURFACES: $\checkmark_{63}$ MILLED SURFACES: $\checkmark_{125}$	ANGULAR MACHINED: ±1.0° FRACTIONAL: ±.015° TWO PLACE DECIMAL: ±.010° THREE PLACE DECIMAL: ±.005° FOUR PLACE DECIMAL: ±.0005° CONCENTRICITY: .0025" T.I.R.	HEAT TREAT:	ENG APPR.	RNK	12NOV09
		SEE DETAIL DRAWINGS	MFG APPR.		
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BELDEN UNIVERSAL. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BELDEN UNIVERSAL IS PROHIBITED.	ALL HOLES TO BE LOCATED ON CENTERLINE (Q) WITHIN .005" T.I.R.	FINISH/COATING:	COMMENTS:		SIZE DWG. NO.
	INTERPRET GEOMETRIC TOLERANCES I.A.W. ASME Y14.5	CADMIUM PLATED			<b>B</b> MS20271B8
					SCALE: 5:1 WEIGHT (Lbs): 0.080 SHEET 1 OF 2