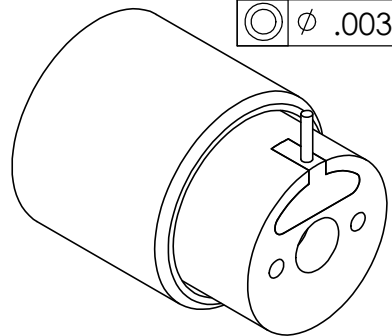
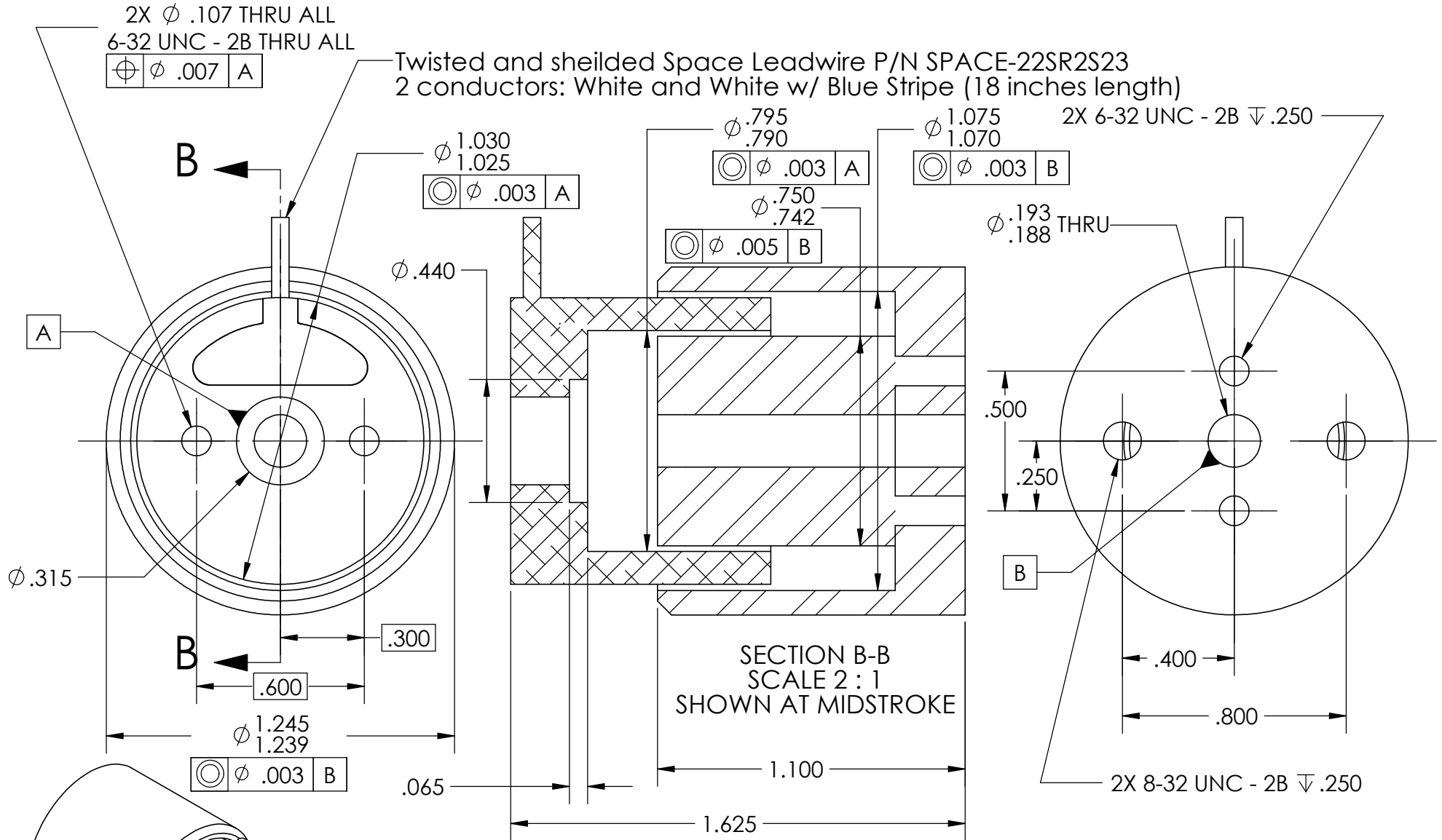


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| REVISION TABLE | | | | | |
|----------------|------|------------------|--------|----------|----------|
| REV | ECN# | DESCRIPTION | REV BY | APPROVED | DATE |
| --- | --- | Original Drawing | JRM | MPW | 10-27-15 |



| | | | | | | | | | | | | | | | |
|--|--|--|--|----------|--|--------|--|-------|--|----------|--|----------|--|----------|--|
| UNLESS SPECIFIED OTHERWISE: All dimensions are in inches Standard Tolerances are as follows .XXX \pm .005 ANGLES \pm 1° .XX \pm .010 FILLETS .010 .X \pm .020 CORNERS .010 Remove All Burs and Sharp Edges | | | | MATERIAL | | FINISH | | DRAWN | | DATE | | APPROVED | | DATE | |
| | | | | | | | | JRM | | 10-27-15 | | MPW | | 10-27-15 | |

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TITLE Vacuum Compatible Non-Commutated DC Linear Actuator Model # NCC05-11-011-1V

| | | |
|----------------|-----|--------|
| DWG # | REV | SHEET |
| 30-1214 | --- | 1 of 2 |

NON-COMM ACTUATOR SPECIFICATIONS

| | | |
|--------------------------|---------------------|------------------|
| Motor P/N | NCC05-11-011-1V | |
| Device Type | Moving Coil | |
| Stroke | 0.5 in | 12.7 mm |
| Radial Clearance | 0.020 in | 0.51 mm |
| Bearing Type | None Provided | |
| Moving Mass | 0.28 lbs | 34 grams |
| Total Mass | 0.77 lbs | 142 grams |
| Resistance @ 20C | 2.75 ohms | |
| Inductance @ 20C | 1.1 mH | |
| Electrical Time Constant | 0.4 msec | |
| Motor Constant | 0.57 lbs/sqrt(watt) | 2.5 N/sqrt(watt) |
| Force Constant | 0.9 lbs/amp | 4.1 N/amp |
| Back EMF | 0.11 V/ips | 4.1 V/m/sec |
| Force @ 100% Duty | 1.6 lbs | 7.1 N |
| Power @ 100% Duty | 8 watts | |
| Current @ 100% Duty | 1.8 amps | |
| Force @ 10% Duty | 4.8 lbs | 21.4 N |
| Power @ 10% Duty | 79 watts | |
| Current @ 10% Duty | 5.4 amps | |