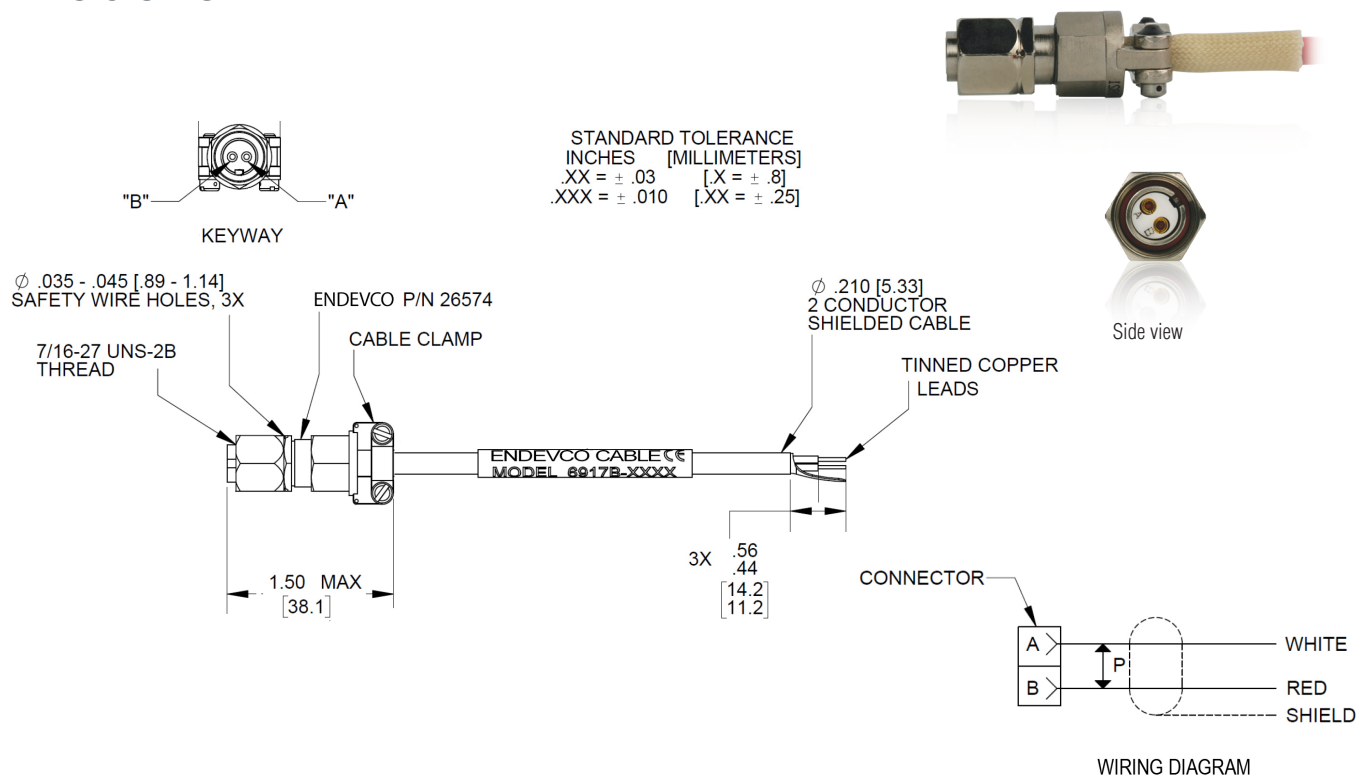


# Two conductor, shielded low noise cable assembly Model 6917B



## Key features

- For use with differential high impedance output piezoelectric accelerometers
- Critical parameters 100% tested
- High temperature to 500°F (260°C)
- Ideal for use in engine test cells
- Rugged 7/16-27 UNS-2B Plug

## Description

The 6917B is a low noise cable assembly consisting of a twisted pair of low noise treated PTFE jacketed wires with a nickel-plated copper outer shield. The rugged field replaceable plug features a specially designed assembly with high force contacts and alumina inserts for high temperature operation. The removable backshell provides for ease of field replacement.

The opposite end of the cable is terminated in pigtails. The stranded wire is tinned and the low noise treatment is removed at the cable's end for user convenience.

This cable is typically used in turbofan environments at temperatures up to 500°F (260°C).

# Two conductor, shielded low noise cable assembly | Model 6917B

The following performance specifications conform to ISA-RP-37.2 (1964) and are typical values, referenced at +75°F (+24°C) and 100 Hz, unless otherwise noted. Calibration data, traceable to National Institute of Standards and Technology (NIST), is supplied.

| Specifications                                       |                                |                                       |
|--|--------------------------------|---------------------------------------|
| Connector  | Units                          | 6917B                                 |
| Connector 1 (2)                                      |                                | 7/16-27 UNS-2B, plug, female          |
| Dielectric material                                  |                                | Alumina ceramic                       |
| Socket material                                      |                                | Gold plated nickel alloy              |
| Coupling nut, shell and clamp                        |                                | Nickel plated aluminum alloy          |
| Retaining ring and clamp hardware                    |                                | Stainless steel                       |
| O ring and grommet                                   |                                | High temperature silicone elastomer   |
| Weight   | gms                            | 22                                    |
| Torque   | lb-in (Nm)                     | 60 (9.04)                             |
| Safety wire holes                                    |                                | Yes                                   |
| Connector 2  |                                | Pigtails                              |
| Cable  |                                |                                       |
| Color (3)  |                                | Red                                   |
| Jacket   |                                | PTFE                                  |
| Cable diameter                                       | in (mm)                        | 0.210 (5.105)                         |
| Type   |                                | Twisted pair, shielded                |
| Signal lead insulation material                      |                                | Red and White low noise treated PTFE  |
| Signal lead construction                             |                                | Stranded                              |
| Signal lead material                                 |                                | Nickel plated annealed copper         |
| Signal lead size                                     | AWG                            | 20                                    |
| Shield material                                      |                                | Braided nickel plated annealed copper |
| Weight   | lbs (gms)/ft                   | .03 (13.6 )                           |
| Bend Radius  | in (mm)                        | 0.60 (12.7)                           |
| Raw cable  |                                | EDV16833A (79239-01)                  |
| Environmental  |                                |                                       |
| Minimum temperature                                  | °F (°C)                        | -65 (-54)                             |
| Maximum temperature                                  | °F (°C)                        | 500 (260)                             |
| Electrical   |                                |                                       |
| Noise (1)  | pC pk-pk                       | 1.5                                   |
| Capacitance, between signal leads (1)                | pF/ft                          | 80 max                                |
| Capacitance between either signal lead to shield (1) | pF/ft                          | 150 max                               |
| Resistance between signal leads (1)                  | GΩ                             | 1 min                                 |
| Resistance between either signal lead shield (1)     | GΩ                             | 1 min                                 |
| Length tolerance tabulation                          |                                |                                       |
| Length inches (millimeters)                          | Tolerance inches (millimeters) |                                       |
| Up to 12 (304.8)                                     | + 1.0 (25.4)                   |                                       |
| 13 to 60 (330.2 to 1524)                             | + 2.0 (50.8)                   |                                       |
| 61 to 1200 (1524 to 30.48 meters)                    | + 6.0 (152.4)                  |                                       |
| Over 1200 (30.48 meters)                             | + 1.0ft (304.8)                |                                       |

## Notes

- 1. These parameters are 100% tested.
- 2. Replacement connector, part number 26574
- 3. Small color variations may occur during normal batch processing, but have no impact on product performance.

## Ordering Information

- 1. Specify as 6917B/XXX where XXX = Cable length in inches
- 2. Maintain high levels of precision and accuracy using Endevco's factory calibration services. Call Endevco's inside sales force at 866-ENDEVCO for recommended intervals, pricing and turn-around time for these services as well as for quotations on our standard products.



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