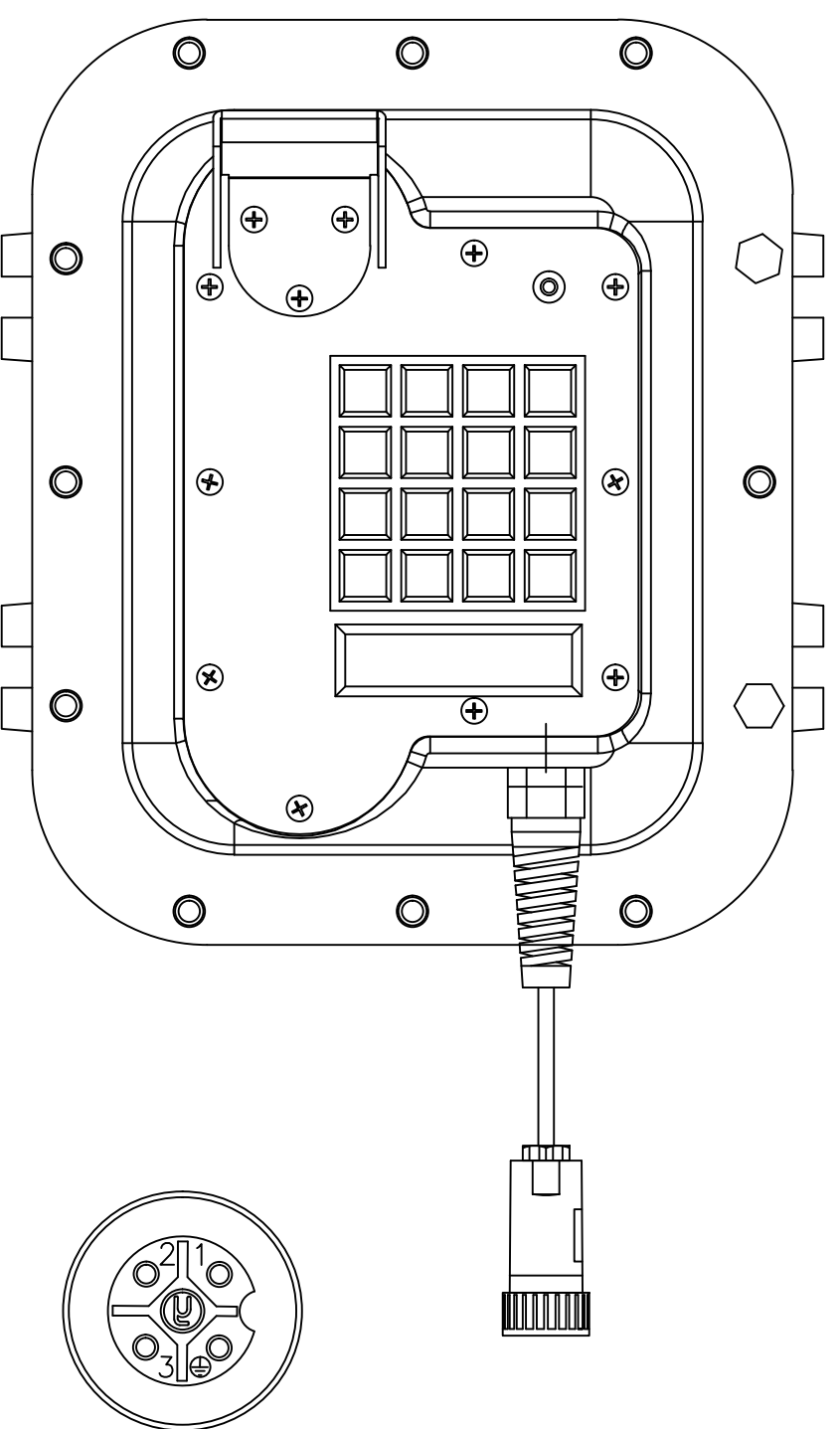


FEDERAL SIGNAL, MODEL E1-JS INTERCOM
 INTRINSICALLY SAFE CONTROL DRAWING – FOR HEADSET CONNECTION

HAZARDOUS AREA – ZONE 1, IIB

HAZARDOUS AREA – ZONE 1, IIB

MODEL E1-JS INTERCOM

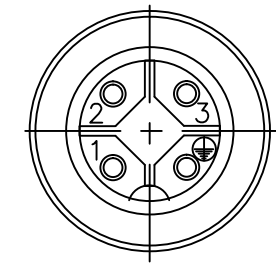


| WIRING PIN-OUT | |
|----------------|---------|
| POSITION | CHANNEL |
| 1 | 10 |
| 2 | 11 |
| 3 | 12 |
| ⊕ | 13 |

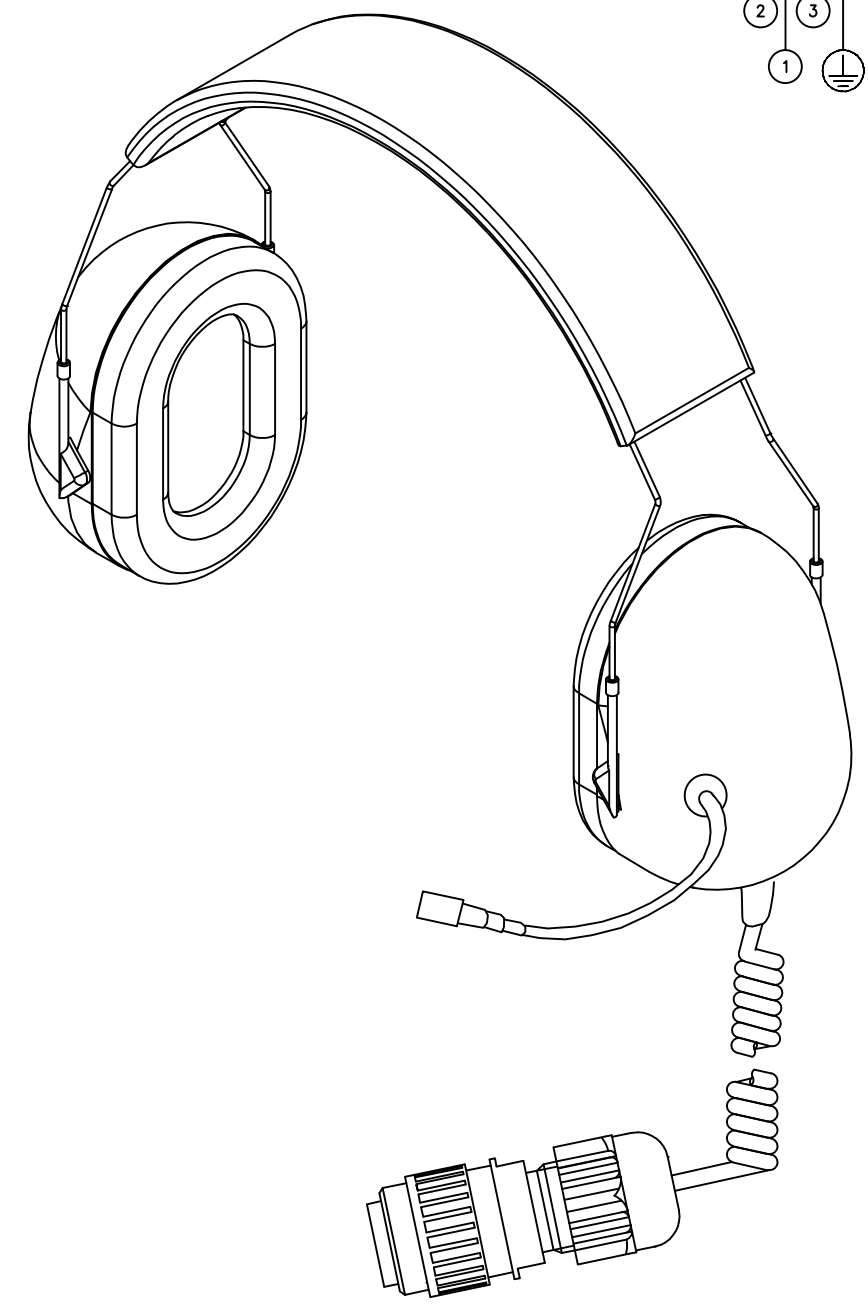
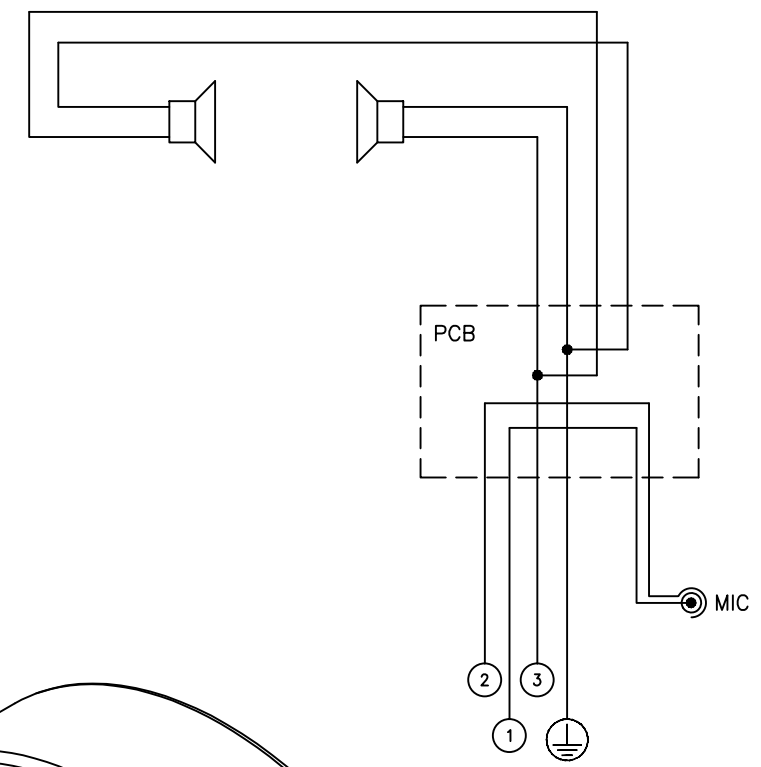
| When the IS device meets 500V Dielectric | | |
|---|-------|-----------|
| Channel 10,11 (Position 1,2) | Uo | 6.6 V |
| | Io | 10.53 mA |
| | Co | 500 μF |
| | Lo | 2.88 mH |
| Channel 12,13 (Position 3,4) | Uo | 6.6 V |
| | Io | 24.5 mA |
| | Co | 500 μF |
| | Lo | 0.53 mH |
| Channel 10,11,12,13 (Position 1,2,3,4) | Uo | 6.6 V |
| | Io | 35 mA |
| | Co | 500 μF |
| | Lo | 0.26 mH |
| Channel 10,11,12,13 (Position 1,2,3,4) | Lo/Ro | 2.46 mH/Ω |

| When the IS device does not meets 500V Dielectric | | |
|---|-------|------------|
| Channel 10,11 (Position 1,2) | Uo | 6.6 V |
| | Io | 42.11 mA |
| | Co | 500 μF |
| | Lo | 0.18 mH |
| Channel 12,13 (Position 3,4) | Uo | 6.6 V |
| | Io | 97.8 mA |
| | Co | 500 μF |
| | Lo | 0.033 mH |
| Channel 10,11,12,13 (Position 1,2,3,4) | Uo | 6.6 V |
| | Io | 139.9 mA |
| | Co | 500 μF |
| | Lo | 0.016 mH |
| Channel 10,11,12,13 (Position 1,2,3,4) | Lo/Ro | 0.616 mH/Ω |

HEADSET



| WIRING PIN-OUT | |
|----------------|--------------------|
| POSITION | COIL |
| 1 | MICROPHONE ELEMENT |
| 2 | EARPIECE ELEMENT |
| 3 | |
| ⊕ | |



- NOTES:
- 1) This associated apparatus has not been evaluated for use in combination with another associated apparatus. Safe use and Compatibility to be determined by end user.
 - 2) For installations in which both the Ci and Li of the intrinsically safe apparatus exceeds 1% of the Co and Lo parameters of the associated apparatus (excluding the cable), the 50% of Co and Lo parameters are applicable and shall not be exceeded.
 - 3) Associated Apparatus Headset plug to be Hirschmann Type CA 3 LS / Order No. 934 124-100 or equivalent.

| | | | | |
|--|-------------------------------|--|----------|--|
| FEDERAL SIGNAL 2645 FEDERAL SIGNAL DRIVE UNIVERSITY PARK, IL 60484 | SAFETY & SECURITY GROUP | Tolerances Unless Otherwise Specified ln[mm] ----- ±0.5° Angles ----- ±0.015[±0.4] x.xx[x.xx] ----- ±0.005[±0.12] | NAME | INTRINSICALLY SAFE CONTROL DRAWING |
| | | | FINISH | SCALE AT C SIZE: THIRD ANGLE PROJECTION |
| MATERIAL DESCRIBED AND INFORMATION CONVEYED IS PROPRIETY TO FEDERAL SIGNAL CORPORATION, IS OR MAY BE SUBJECT OF PATENT APPLICATIONS, AND MAY NOT BE COPIED, DIVULGED TO OTHERS, OR USED FOR MANUFACTURING WITHOUT CONSENT. | | | MATERIAL | UNIT OF MEASURE RF |
| A0 | RELEASE FOR CERTIFICATION | 11/5/13 | SM | DRAWN BY: KM |
| REV. | CHANGE | DATE | BY | DATE: 10/3/13 |
| | | | | CHKD. BY: SM |
| | | | | DATE: 11/5/13 |
| | | | | DRAWING NUMBER 850000218A |