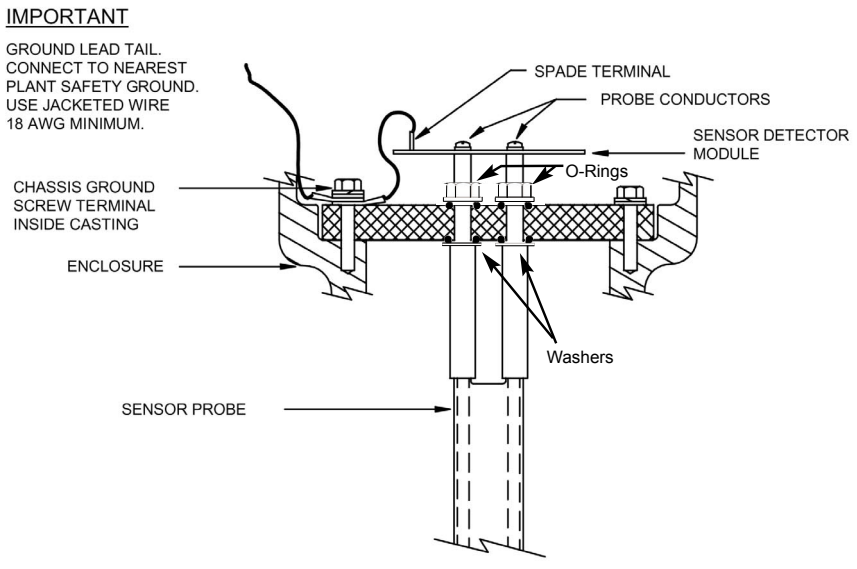
SENSOR GROUNDING



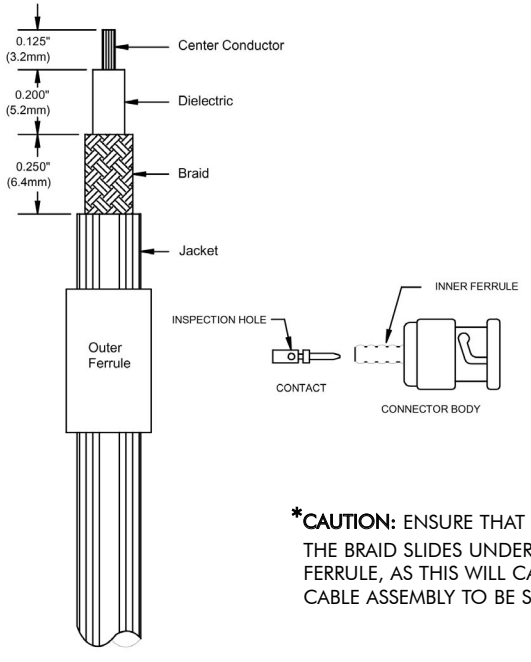
Very important. Please follow these instructions.

1. Sensors installed in dry bulk products are exposed to static electricity. Static protection is equipped on this sensor. This is effective only when the enclosure safety ground is connected as shown. **This ground must be connected at all times.** On installation, this ground must be connected before running any product over the sensor.

2. If the sensor detector module is removed, ground both probe conductors to the chassis ground screw. If left ungrounded, static electricity may damage the termination at the bottom of the sensor.

COAXIAL CONNECTOR ASSEMBLY PROCEDURE

1. Strip cable jacket braid and dielectric to dimensions shown in drawing. All cuts are to be sharp and square.
2. **Important.** Do not nick braid, dielectric or center conductor. Tinning of center conductor is not necessary if contact is to be crimped. For solder method, tin center conductor avoiding excessive heat.

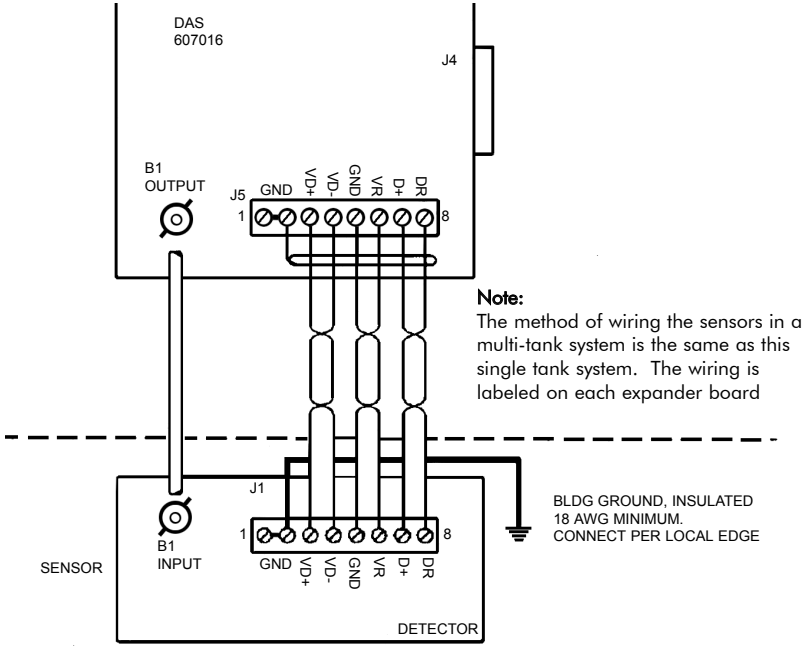


***CAUTION:** ENSURE THAT NO PART OF THE BRAID SLIDES UNDER THE INNER FERRULE, AS THIS WILL CAUSE THE CABLE ASSEMBLY TO BE SHORTED.

3. Slide outer ferrule onto cable as shown. Slightly flare the end of cable braid to facilitate insertion into inner ferrule.
4. **Important:** Do not comb out braid.
5. Place contact on cable center conductor so that it butts against cable dielectric. Center conductor should be visible through inspection hole in contact. Crimp or solder the contact in place before proceeding.
6. Install cable assembly into connector body so that the inner ferrule portion slides under braid. ***Push cable forward until the contact snaps into place in connector insulator.**
7. Slide outer ferrule over braid and up against connector body then crimp outer ferrule to finish termination.

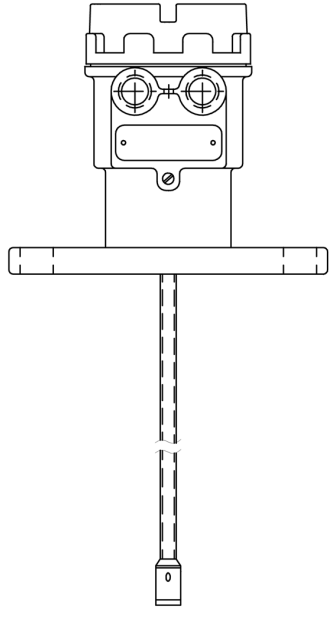
Recommended Tools:
Paladin PA1317 Crimping Tool
Paladin PA1225 Stripping Tool
BNC Connector (Amphenol 31-320 Assembly)

NOTE: Improper wiring may void the warranty.



phase tracker™

Continuous Level Monitor Sensor Wiring Guide



Field Wiring:
In addition to the normal wiring continuity checks, the following power off resistance and diode test should be carried out with the twisted pair wiring connected at the sensor end and disconnected at the control unit terminals. The values are ±10%.

VD+ to GND	24K ohms
VD- to GND	<1K ohms
D+ to Dr	182 ohms (LM705 cables only)
VR to GND	1.8K (approx.)

Change the meter to diode test and measure the following voltages.

VD+ to VD-	0.4V (positive on VD-)
VR to GND	0.6V (positive on GND)

Before connecting the coax cable at either end, check for continuity between the center and outer connectors and for shorts at the BNC connectors.

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