



Service Bulletin

Bulletin No. 01-06
January 27, 2006

To: ITW Ransburg and ITW Automotive Finishing Distributors
Subject: Splicing an Evolver Gun to a Junction Box (A11355-XX and A11356-XX)

The Evolver spray gun can be ordered with special low voltage cables (A11355-XX and A11356-XX) for splicing to a junction box. This is sometimes done in the field, to reduce the amount of cable that has to be replaced if a failure of the cable occurs. The control unit and gun ends of these cables attach as described in the standard low voltage cable section of the current service manual. Follow the instructions below to wire the junction box ends of these cables.

Junction Box in Hazardous Location

If the junction box is in the hazardous location, an explosion-proof junction box must be used. In this case, connect the numbered wires of cable A11356-XX using a terminal strip inside the explosion-proof junction box. Ensure the junction box is grounded to earth ground. Connect wire 18 (braid) of cable A11355-XX to the junction box (ground). Seal the cable in the explosion-proof junction box using appropriate explosion-proof fittings and sealing compound. The exposed area of the cable braids must be located on the junction box side of the sealing compound.

Junction Box in Non-Hazardous Location

If the junction box is in a non-hazardous location, then it is not necessary to use an explosion-proof junction box. In this case, use the supplied cable gland (A11357-02) and gland nut (A11358-02) to secure the cables at their entry and exit to the junction box. Install the cable gland in the junction box and position the cable so that the spring of the gland makes contact to the exposed braid of the cable when the gland nut is tightened. Ensure the junction box is grounded to earth ground. Connect the numbered wires of cable A11356-XX to the same numbered wire of cable A11355-XX using a terminal strip inside the junction box. The braid of cable A11355-XX will be grounded through its contact to the cable gland spring and the grounded junction box. Wire 18, therefore is unnecessary and may be trimmed off. Connection in this manner will ensure maximum noise immunity.