

# Can I Use a White 90 Degree Fitting For My Grey Conduit Run?



Often there is the question of using another color of fitting, or sometimes pipe, within a system. First let me state that Electrical, Drain Waste & Vent (DWV), water distribution fittings each have their own standards to which they adhere. These standards often include the type of material from which they are made. The standards will also define the shape, or configuration, of the fitting as well as the sizing of the connection points.

Grey conduit and White or Grey water distribution PVC fittings are made of PVC, but that used for conduit are of completely different physical, mechanical, & chemical properties. The White 90 degree fitting is not approved by any code agencies for use as electrical conduit, mainly due to the configuration, and material formulation.

As an aside, DWV fittings although made from the same formulation of PVC as water distribution fittings are required to have shapes, and socket dimensions that differ from Schedule 40 and Schedule 80 fittings. DWV fittings designed for gravity flow systems which have minimal pressure and a built in slope of  $\frac{1}{4}$  in./ft or  $1^{\circ} 12$  min.

PVC Schedule 40 and 80 are both made with the basically identical material with the exception of coloring. Grey is the most common method of identification of Schedule 80 piping and fittings. There are a few shades of Grey that further identify these systems. Schedule 80 PVC is the darkest shade, Schedule 80 CPVC, a specific formula used for hot water & etc., is a medium shade. The Grey used for

electrical is the lightest, but again of a different material and industry standards.

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