

## Wireway and Wiring Trough – Frequently Asked Questions

### What material is used to make this product?

Rigid PVC, just like our Rigid Nonmetallic Conduit. Therefore, many of the characteristics and restrictions are identical.

### What is the difference between trough and wireway?

A trough is a factory fabricated wireway, cut to length with two end caps installed. Wireway is just a straight "piece". The trough is more of a convenience item.

### Can Wireway be used outdoors?

No, it is only listed for dry or damp indoor use.

### What is the temperature limitation for Wireway?

50°C (122°F), the same as Rigid Nonmetallic Conduit.

### Why aren't there expansion fittings for Wireway?

There are! Each internal and external coupling is slotted to allow the Wireway to expand and contract. Wireway is installed differently than Rigid Nonmetallic Conduit. Normally, Wireway is attached to the building surface which confines the expansion/contraction to that piece. The screw support holes must be enlarged or elongated to allow the Wireway to "move" with the temperature change. If this is not done, warping will occur.

### Why must the conductors installed in nonmetallic Wireway be derated?

Because the nonmetallic Wireway is an insulator. The heat from the ampacity of the conductors is not radiated from the Wireway as efficiently as from the metal product. To keep the temperature in the Wireway below the 90°C rating of the wire insulation, the derating factors of note 8, notes to the ampacity tables, 0 -



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2000 volts, apply to the conductors in nonmetallic Wireway. See Section 362-19 of the NEC.

### What is the NEMA type rating for the Wireway?

Trough and stop end fittings are a NEMA Type 12. Wireway and all other fittings maintain a NEMA type 1 rating.

### Can Wire Safe Wireway and Trough be used in a car wash?

Maybe. If the Wireway is installed in an area that is subject to direct hose-down spray the answer is no. For this installation the Wireway would be required to be a NEMA type 4/4x. If the area is considered a "damp location" a NEMA 12 rating is required. If the area is considered a "dry location" than a NEMA 1 rating is required.

### Can you please let me know if there are 45-degree elbow available for the 6"x 6" trough. There are not shown in the wireway fittings page.

No, we do not have 45-degree elbows available. What you'll have to do is miter and assemble the fittings to form a 45-degree elbow.

### The NEC states that non-metallic wireway needs to be supported every 3 feet unless otherwise listed by the manufacturer. Does your wireway need to be supported every 3 feet or is listed for some other support interval?

The product is intended to be installed be the NEC at 36" spacing.

### What is the purpose of the Flange in the Wiresafe Fittings Line?

Its use is similar to that of a box adapter with an enclosure.

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I am looking for some type of reducer for the wireway. I would like to go from using a 3x3 to a 2x2. Do you have anything that would work for this?

There is no true reducer but the EGFJ, Flange, can be used to connect the 2x2 to the 3x3. Some field modification may be needed. Or the contractor just needs to fabricate his own connection.

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