

Potting Cables in Acrylic Tanks Walls with 2-Part Epoxy and Micro-Filler Potting Material

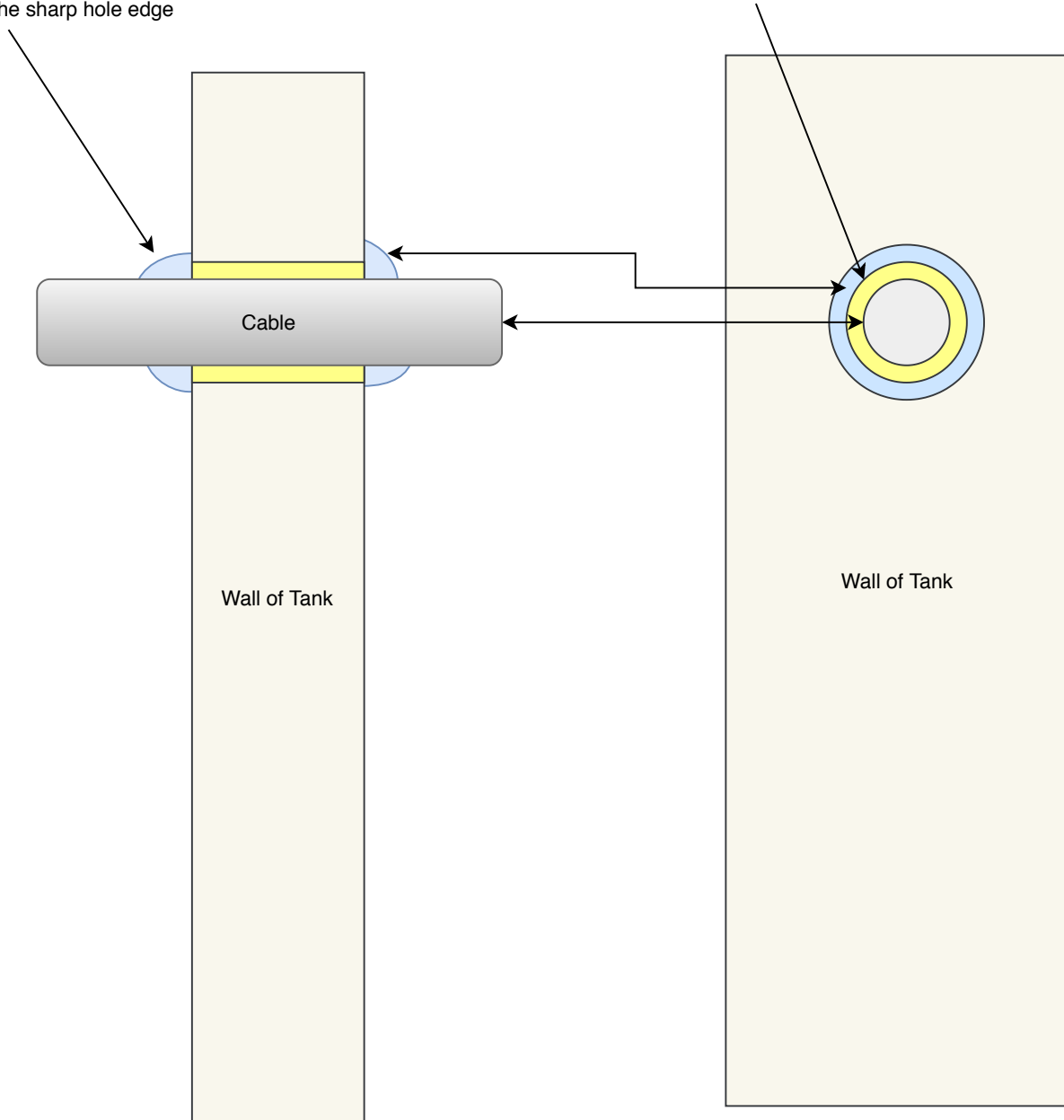
Drill hole (Yellow) in wall of Acrylic tank that is about 1-2mm larger than the cable you need to pass through the wall of the tank.

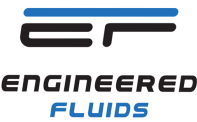
The fit should be as tight as possible without damaging the cable or making it difficult to pass the cable through the wall.

Be careful not to strip off the outer cover of the wire on the sharp hole edge

Make a potting material, using [2-part epoxy](#) with [micro-filler balls](#) to increase the viscosity, form a putty that is sticky, but does not drip and insert the material all around the cable and inside the hole,

Make sure the potting (blue) is completely surrounding the cable and overlaps the hole slightly on the side and outside to prevent the plug and cable from being pulled out of the hole.



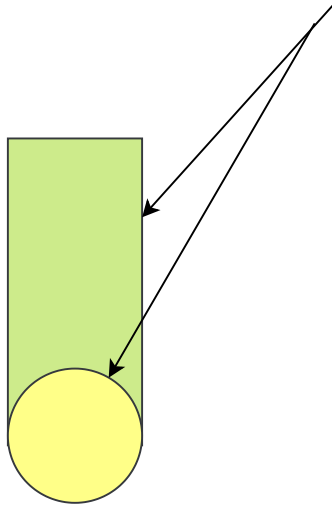
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For cables that have connectors, drill the hole (yellow) for the cable, then cut out the key slot (green).

Place the cable into the slot in the tank, and using chemical welding (not epoxy) replace the keyslot back into the side of the tank on top of cable.

Seal the cable with epoxy / microfiller potting material.




NOTE:

When potting cables you are relying on the cable to be "liquid tight" this is not always the case with some multi-wire cables like Ethernet and some power cables.

In these cases strip off the outer cable insulator at the point where you will be potting the cable, and then pot the insulated individual wires as a group as they enter and exit the hole.

Make sure to get enough potting material between the individual wires to seal them in the hole.

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