

# FEATURES & ADVANTAGES

	Epoxy Fiberglass XW	PVC Sch 80	Galvanized Rigid Steel	PVC Coated Steel	Aluminum
<b>Cable Fault</b> Fiberglass conduit will not melt or weld the wire to the inside of the conduit under fault conditions as can happen with PVC, steel and aluminum conduit.	Not Affected	Melt/ Fuse	Weld	Weld	Weld
<b>Corrosion Resistance</b> Fiberglass conduit has the broadest range of corrosion resistance of all of these conduit materials. See page 29 for further information.	Wide Range	Limited	Poor	Limited	Limited
<b>Toxicity/Halogens</b> Fiberglass conduit does not release toxic halogens (i.e. chlorine and bromine) when burning.	No	Yes	No	Yes	No
<b>Weight Comparison</b> (lbs. per 100 ft., approx.) Fiberglass conduit offers the lowest weight and is still very rigid.	¾" 61 1" 68 1¼" 82 1½" 118 2" 126 ½" 154 3" 182 3½" 210 4" 238 5" 294 6" 350	29 43 59 99 99 152 212 262 310 431 592	105 153 201 246 334 527 690 831 982 1344 1770	105 153 201 246 334 527 690 831 982 1344 1770	36 53 70 86 116 183 239 288 340 465 612
<b>Support Spacing for 4" Conduit (ft)</b>	7	7	10	10	10
<b>Temperature Range (°F)</b> Fiberglass has an excellent wide temperature range.	-60° to +250°	+40° to +150°	N/A	N/A	N/A
<b>Handling in Low Temperatures</b> Fiberglass conduit has been shown to retain its properties at low temperatures allowing year round installations.	Excellent	Brittle	Excellent	Excellent	Excellent
<b>Burn Through (Cable Pull)</b> Fiberglass conduit is an excellent material for avoiding "burn through" when pulling cable.	No	Yes	No	No	No

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<b>Coefficient of Friction Using PVC Jacketed Cable</b> Fiberglass conduit offers one of the lowest coefficient of friction available today for conduit systems. It is completely resistant to any of the current pulling lubricants corrosive properties.	0.38	0.90	0.55	0.55	0.25
<b>Conductivity</b> Fiberglass conduit acts as an excellent insulator.	No	No	Yes	Yes	Yes
<b>UV Stable (w Resistance)</b> (Per UL 1684 & CSA-C22.2 No. 211.3-96)	Good	Poor	Excellent	Poor	Excellent
<b>Coefficient of Thermal Expansion</b> (10 <sup>-5</sup> inch/inch/°F) *The coefficient is 3.5 for the PVC layer. Because of the broad difference between the two materials, adhesion is severely affected during temperature contraction and expansion.	1.0	3.5	0.7	3.5*	3.5
<b>Distance Between Expansion Joints (ft)</b>	200	50	200	200	50
<b>Resistance to Rodents &amp; Fire Ants</b> Fiberglass conduit is extremely resistant to attack from rodents as well as to the aggressive chemicals secreted by fire ants.	Excellent	Poor	Excellent	Excellent	Excellent
<b>Field Handling</b> Due to its light weight, ease of cutting and integral bell, fiberglass conduit is very easy to install.	Excellent	Good	Very Poor	Very Poor	Poor
<b>Memory</b> Fiberglass conduit will retain its original shape after impact or compression.	Yes	No	No	No	No