

FEATURES & ADVANTAGES

	Epoxy Fiberglass	PVC Sch 40	PVC Sch 80	Galvanized Rigid Steel	PVC Coated Steel	Aluminum
Cable Fault 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	Melt/ Fuse	Weld	Weld	Weld
Corrosion Resistance Fiberglass conduit has the broadest range of corrosion resistance of all of these conduit materials. See page 62 for further information.	Wide Range	Limited	Limited	Poor	Limited	Limited
Relative Cost, 4" Conduit (Relative for Labor and Material Cost)	1	0.75	1	4	6	3.5
Toxicity/Halogens Fiberglass conduit does not release toxic halogens (i.e. chlorine and bromine) when burning.	No	Yes	Yes	No	Yes	No
Weight Comparison (lbs. per 100 ft., approx.) Fiberglass conduit offers the lowest weight and is still very rigid. See support spacing on pages 58-61.	¾" 27 1" 30 1¼" 35 1½" 38 2" 40 2½" 50 3" 59 3½" 65 4" 78 5" 97 6" 117 8" 150	23 34 46 55 73 125 164 198 234 318 412 640	29 43 59 99 99 152 212 262 310 431 592 N/A	105 153 201 246 334 527 690 831 982 1344 1770 N/A	105 153 201 246 334 527 690 831 982 1344 1770 N/A	36 53 70 86 116 183 239 288 340 465 612 N/A
Support Spacing for 4" Conduit (ft) See Engineering Section of this catalog for further information ("Deflection" on pages 58-61).	12	7	7	20	20	15
Temperature Range (°F) Fiberglass has an excellent wide temperature range.	-60° to +250°	+40° to +150°	+40° to +150°	N/A	N/A	N/A
Handling in Low Temperatures Fiberglass conduit has been shown to retain its properties at low temperatures allowing year round installations.	Excellent	Brittle	Brittle	Excellent	Excellent	Excellent
Burn Through (Cable Pull) Fiberglass conduit is an excellent material for avoiding "burnthrough" when pulling cable.	No	Yes	Yes	No	No	No

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<p>Coefficient of Friction Using PVC Jacketed Cable 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.</p>	0.38	0.90	0.90	0.55	0.55	0.25
<p>Conductivity Fiberglass conduit acts as an excellent insulator.</p>	No	No	No	Yes	Yes	Yes
<p>UV Stable (Sunlight Resistance) (Per UL 2515 & CSA C22.2 No. 211.3-96)</p>	Good	Poor	Poor	Excellent	Poor	Excellent
<p>Coefficient of Thermal Expansion (10-5 inch/inch/°F) *The coefficient is .7 for the steel and 3.5 for the PVC layer. Because of the broad difference between the two materials, adhesion is severely affected during temperature contraction and expansion.</p>	1.0	3.5	3.5	0.7	3.5/0.7*	3.5
<p>Distance Between Expansion Joints (ft)</p>	200	50	50	200	200	50
<p>NECA Labor Installation Rates (Normal installation per/100 ft) (REF: 2013-2014 NECA Manual of Labor Units)</p>	<p>¾"</p> <p>1"</p> <p>1¼"</p> <p>1½"</p> <p>2"</p> <p>2½"</p> <p>3"</p> <p>3½"</p> <p>4"</p> <p>5"</p> <p>6"</p>	<p>4.50</p> <p>5.25</p> <p>6.00</p> <p>7.00</p> <p>8.00</p> <p>9.00</p> <p>10.00</p> <p>12.00</p> <p>14.00</p> <p>18.00</p> <p>24.00</p>	<p>5.40</p> <p>6.30</p> <p>7.20</p> <p>8.40</p> <p>9.60</p> <p>10.80</p> <p>12.00</p> <p>N/A</p> <p>16.80</p> <p>21.60</p> <p>28.80</p>	<p>6.00</p> <p>7.00</p> <p>8.00</p> <p>9.00</p> <p>11.00</p> <p>15.00</p> <p>20.00</p> <p>25.00</p> <p>30.00</p> <p>38.00</p> <p>48.00</p>	<p>8.00</p> <p>10.00</p> <p>12.00</p> <p>15.00</p> <p>18.00</p> <p>21.00</p> <p>26.00</p> <p>32.00</p> <p>38.00</p> <p>45.00</p> <p>60.00</p>	<p>5.50</p> <p>6.00</p> <p>6.50</p> <p>7.00</p> <p>8.00</p> <p>10.00</p> <p>12.00</p> <p>15.00</p> <p>19.00</p> <p>24.00</p> <p>30.00</p>
<p>Field Handling Due to its light weight, ease of cutting and integral bell, fiberglass conduit is very easy to install.</p>	Excellent	Good	Good	Very Poor	Very Poor	Poor
<p>Memory Fiberglass conduit will retain its original shape after impact or compression.</p>	Yes	No	No	No	No	No