

	FRE®	Galvanized Rigid Steel	PVC or Epoxy Coated Steel	Aluminium	PVC 40 / 80
Cable Fault FRE conduit will not melt nor weld the wire to the inside of the conduit under fault conditions as can happen with other types of conduit.	Not Affected	Weld	Weld	Weld	Melt and Fuse
Corrosion Resistance FRE conduit has the broadest range of corrosion resistance.	Wide range	Poor	Limited	Limited	Limited
Relative Cost Labor and material (4 inch conduit)	1	4	6	3.5	0.75 / 1.3
Toxicity / Halogens FRE does not release toxic halogens (i.e. Chlorine and Bromine) when burning.	None	None	Yes	None	Yes
Weight Comparison (Lbs. / 100 ft. approx). 2" 4" 6"	40 78 117	334 982 1770	334 982 1770	116 340 612	73 / 99 234 / 310 412 / 592
Support Spacing (4" conduit / ft.)	14	5	5	15	7
Temperature (°C) FRE has a wide temperature range	-40°C - 110°C	N / A	N / A	N / A	4° - 65°
Handling (low temp.) FRE conduit has been shown to retain its properties at low temperatures allowing year round installations.	Excellent	Excellent	Excellent	Excellent	Brittle
Burn Through (cable pull) FRE conduit will not "burn - through" when pulling cable.	No	No	No	No	Yes
Coefficient of Friction conduit offers a very low coefficient of friction. It is resistant to any pulling lubricant's corrosive properties.	0.38	0.55	0.55	0.25	0.90
Conductivity FRE conduit acts as an excellent insulator.	No	Yes	Yes	Yes	No
UV Resistance	Good	Excellent	Poor	Excellent	Poor
Coefficient of Thermal Expansion (10 ⁻⁵ inch / inch / °F)	1.0	0.7	3.5 / 0.7	0.7	3.5
Field Handling Due to its light weight, ease of cutting, 20 foot length and integral bell, FRE conduit is very easy to install.	Excellent	Poor	Very Poor	Poor	Good
Memory FRE conduit will retain its original shape after impact or compression.	Yes	No	No	No	No