

# ARMORING OPTIONS

DESCRIPTION OR TRADE NAME	MATERIAL	FLEXIBILITY	WEIGHT	CRUSH RESISTANCE		ABRASION RESISTANCE	CHEMICAL RESISTANCE	UV RESISTANCE	SERVICE TEMPERATURE (°C)
				Nominal I.D. (typ.)	Percent Crush/Load (typ.)				
<b>TEXTILE</b>									
Braided textile tube, also known as Expando tubing	Polyester (typ.)	Excellent	Very light		None	Fair	Hydrocarbons (including oil and gasoline) - Good Ketones - Poor	Fair	-40 to +288 (cable will be limiting factor)
Braided textile tube with longitudinal slit, known as Roundit	Nomex (Aramid fiber)	Very good	Very light		None	Fair	Hydrocarbons (including oil and gasoline) - Good Ketones - Good	Fair	-55 to +260 (cable will be limiting factor)
<b>CONVOLUTED TUBING</b>									
Ribbed polymer tubing	FEP	Good but bend radius is limited	Light	1.00	20% / 20 lbs *	Good	Hydrocarbons (including oil and gasoline) - Good Ketones - Good	Good	-71 to +204 (cable will be limiting factor)
Ribbed polymer tubing	PFA	Good but bend radius is limited	Light	1.00	20% / 20 lbs *	Good	Hydrocarbons (including oil and gasoline) - Good Ketones - Good	Good	-71 to +260 (cable will be limiting factor)
Ribbed polymer tubing	PEEK	Good but bend radius is limited	Light	1.00	5% / 50 lbs *	Good	Hydrocarbons (including oil and gasoline) - Good Ketones - Good	Good	-60 to +200 (cable will be limiting factor)
<b>FLEXIBLE METAL CORE ARMOR</b>									
Spiral wound, furnace brazed, corrugated metal tube with synthetic rubber jacket	EPDM over Bronze (Ethylene Propylene Diene Terpolymer)	Good but bend radius is limited	Heavy	1.00	5.0% / 480 lbs *	Excellent	Hydrocarbons (including oil and gasoline) - Good Ketones - Good	Good	-60 to +300 (cable will be limiting factor)
Spiral wound, furnace brazed, corrugated metal tube with synthetic rubber jacket	Hypalon over Bronze (Chlorosulfonated Polyethylene)	Good but bend radius is limited	Heavy			Excellent	Hydrocarbons (including oil and gasoline) - Good to Fair Ketones - Poor	Excellent	-60 to +300 (cable will be limiting factor)
Spiral wound, furnace brazed, corrugated metal tube with synthetic rubber jacket	Neoprene over Bronze (Polychloroprene)	Good but bend radius is limited	Heavy			Excellent	Hydrocarbons (including oil and gasoline) - Good to Fair Ketones - Poor	Fair	-60 to +250 (cable will be limiting factor)
Spiral wound, furnace brazed, corrugated metal tube with synthetic rubber jacket	Viton over Bronze (Fluorine/ Hydrocarbon)	Good but bend radius is limited	Heavy			Excellent	Hydrocarbons (including oil and gasoline) - Excellent Ketones - Poor	Excellent	-40 to +250 (cable will be limiting factor at high end)

\* Crush resistance values are expressed as a "percent crush" with a force applied to a 3" long armor sample using a 4 inch wide compression plate. Values are for reference only.



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