VERMILLION INCORPORATED

CERTIFIED TO ISO 9001:2000 + AS9100B

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LEGEND

RELATIVE FLEXIBILITY
Flexibility measurements are based on a .375 diameter multiconductor cable.

1 Least flexible — 2 — 3 — 4 — 5 Most flexible

RELATIVE MATERIAL COST
Material costs are based on jacketing over a .375 diameter cable.

$ Less expensive — $$ — $$$ — $$$$ — $$$$$ More expensive

JACKET MATERIAL	OPERATING TEMPERATURE F°	SPECIFICATIONS / APPROVALS	SELF-EXTINGUISHING IN 15 SEC. OR LESS	RELATIVE FLEXIBILITY	RELATIVE MATERIAL COST	APPLICATIONS: AUDIO CORDAGES & ASSEMBLIES	RETRACTABLE & FLEXIBLE CORDS	JACKETED HARNESS ASSEMBLIES	SPACE	MILITARY AIRCRAFT / MISSILE	HELICOPTER	COMMERCIAL AIRCRAFT	AIRCRAFT GROUND SUPPORT	LAUNCH VEHICLE	MILITARY ELECTRONICS & RADAR	GROUND WEAPON SYSTEMS	COMPUTER INTERFACE & NETWORK	DATA ACQUISITION / INDUSTRIAL CONTROL	SHIPBOARD / MARINE	SUBMARINE	FEATURE
EXTRUDED																					
Tefzel®	-40 to 302	MIL-C-27500	✓	1	$$				✓	✓	✓	✓			✓						Lightweight, Chemical Resistant
Crosslinked Polyethelene	-76 to 284	MIL-C-24640 MIL-C-24643		3	$$$$							✓	✓								✓	Low Smoke, Zero Halogen
Polyurethane	-67 to 194	MIL-I-3930 MIL-C-13777 MIL-C-27072		5	$		✓			✓		✓			✓	✓					Flexible, Abrasion Resistant
BLOWN-ON																					
Neoprene	-50 to 220	MIL-R-6855		2	$$			✓		✓	✓		✓	✓		✓			✓		Wide Temperature Range, Chemical Resistant
HEAT SHRINKABLE TUBING																					
RT-555®	-85 to 392	Army Spec. AR70-71 MIL-D-50030		2	$$$$$			✓	✓					✓		✓				✓	NBC Rated; Low outgassing sleeving resistant to solvents, corrosive chemicals & radiation. Flame retardant
Viton®	-40 to 392	MIL-DTL-23053/13 MIL-R-46846	✓	2	$$$$$			✓	✓	✓					✓				✓		Low outgassing sleeving resistant to fuels, lubricants & solvents at elevated temperatures. Highly resistant to impact
DR-25®	-67 to 302	MIL-DTL-23053/16	✓	3	$$$$			✓		✓		✓							✓		Rugged sleeving resistant to long term contact with aviation and diesel fuels, hydraulic fluids & lubricating oils. Reliable protection against abrasion and mechanical damage
NT-FR®	-94 to 249	MIL-DTL-23053/1 MIL-R-46846	✓	5	$$$			✓					✓	✓	✓	✓					Rugged sleeving resistant to exposure to fluid and solvents at elevated temperatures. Widely used as abrasion protections on harness assemblies
RNF-100®	-67 to 275	MIL-DTL-23053/5		4	$$	✓		✓		✓	✓	✓			✓		✓	✓	✓		Excellent abrasion and fluid resistance. Electrical properties that meet or exceed industrial and military standards.
BRAIDED																					
Kevlar®	650+	MIL-S-83370	✓	3	$$$			✓	✓	✓	✓										Extremely Abrasion Resistant, Flexible, Lightweight & Flame Retardant, Self-Extinguishing
Nomex®	550+	MIL-S-83370	✓	4	$$	✓		✓	✓	✓	✓										Abrasion Resistant Flexible, Lightweight & Flame Retardant
Polyester	Up to 350	MIL-S-83370		4	$	✓		✓		✓	✓	✓									Heat Resistant, Flexible, Lightweight
Nylon	Up to 350	MIL-S-83370		5	$	✓		✓		✓	✓	✓									Flexible, Lightweight