

Product Ratings & Technical Data

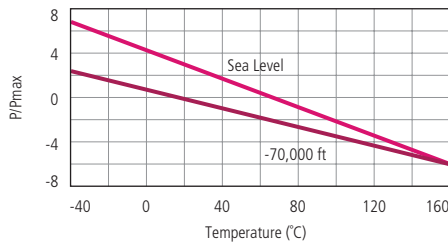
MegaPhase Materials Temperature Ratings

Description	Comments	Operating Temperature
Core Types		
Teflon Core		-103 to 392°F (-75 to 200°C)
Polyethylene Core		-103 to 176°F (-75 to 80°C)
Cable Protection Types		
No Jacket	Standard strength, heat dissipation	See Core Type
Braid Only	Modest strength, heat dissipation	See Core Type
Polyolefin Jacket	System use, standard strength	-67 to 275°F (-55 to 135°C)
Polyolefin Jacket over Braid	TM Series standard, Test and System use, modest strength	-67 to 275°F (-55 to 135°C)
Neoprene Jacket	Outdoor use, environmental protection	-94 to 250°F (-70 to 121°C)
Neoprene Jacket over Braid	Modest strength, environmental protection	-94 to 250°F (-70 to 121°C)
FEP Jacket	Space, low outgassing	-103 to 392°F (-75 to 200°C)
FEP Jacket over Braid	Modest strength, low outgassing	-103 to 392°F (-75 to 200°C)
Polyethylene	Tower 7 Series standard	-103 to 176°F (-75 to 80°C)
Nomex Braid	Airborne or Plenum use	-103 to 392°F (-75 to 200°C)
Nomex over Metallic Braid	Modest strength, Airborne or Plenum use	-103 to 392°F (-75 to 200°C)
Viton Jacket	Space, radiation protection, NBC	-40 to 392°F (-40 to 200°C)
Viton Jacket over Metallic Braid	Modest strength, radiation resistant, NBC	-40 to 392°F (-40 to 200°C)
Teflon Tape Wrap Jacket	High flexibility	-103 to 392°F (-75 to 200°C)
Polyurethane Jacket	Exterior UV and high abrasion resistance	-103 to 257°F (-75 to 125°C)
Other Armor	Crush resistant, extra strength	Dependant on Armor Type
Marker and Strain Relief Types		
Semi-Flexible Dual Wall Polyolefin (DWP)	General purpose, flexible adhesive for environmental seal	-67 to 230°F (-55 to 110°C)
Semi-Rigid Dual Wall Polyolefin (SCL)	General purpose, rigid adhesive	-67 to 230°F (-55 to 110°C)
Polyolefin	General purpose, flexible, no adhesive	-67 to 275°F (-55 to 135°C)
Viton	Space, radiation protection, no adhesive	-40 to 392°F (-40 to 200°C)
Kynar	Space, no adhesive	-67 to 347°F (-55 to 175°C)
Metal	Indoor use, no adhesive	-103 to 392°F (-75 to 200°C)

SWR/Return Loss Conversion

SWR	Return Loss (dB)
1.00:1	∞
1.01:1	46.02
1.02:1	40.06
1.03:1	36.60
1.04:1	34.15
1.05:1	32.25
1.06:1	30.72
1.07:1	29.42
1.08:1	28.29
1.09:1	27.31
1.10:1	26.45
1.12:1	24.94
1.14:1	23.69
1.15:1	23.12
1.18:1	21.66
1.20:1	20.83
1.22:1	20.08
1.25:1	19.09
1.30:1	17.70
1.35:1	16.54
1.40:1	15.56
1.45:1	14.72
1.50:1	13.98
1.55:1	13.32
1.60:1	12.74
1.65:1	12.21
1.70:1	11.73
1.75:1	11.29
1.80:1	10.88
1.85:1	10.51
1.90:1	10.16
1.95:1	9.84
2.00:1	9.54
2.10:1	8.98
2.20:1	8.52
2.30:1	8.09
2.40:1	7.71
2.50:1	7.36
2.60:1	7.04
2.70:1	6.76
2.80:1	6.49
2.90:1	6.25
3.00:1	6.02
3.20:1	5.62
3.40:1	5.26
3.60:1	4.96
3.80:1	4.68
4.00:1	4.44
5.00:1	3.52
6.00:1	2.92
7.00:1	2.50
8.00:1	2.18
9.00:1	1.94
10.00:1	1.74
15.00:1	1.16
20.00:1	0.87
25.00:1	0.70
30.00:1	0.58
35.00:1	0.50
∞	0.00

Power Derating over Temperature and Altitude



Attenuation Derating over Temperature

