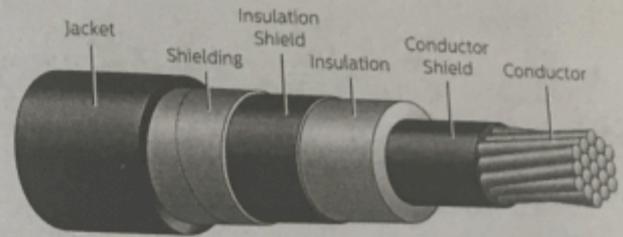


12<sup>PM</sup>

Power Cables - Type MV 105  
15kV Shielded 105°C Rating



- Copper or Aluminum
- Shield - Non-Conducting Permashield®
- Control Layer
- Insulation - Discharge Resistant EPR Insulation
- Insulation Shield - Extruded Free Stripping
- Semi-Conducting Layer
- Shielding - 5 mil Copper Tape
- Jacket - Polyvinyl Chloride (PVC)

→ Electrical if triple if we will triple load

{ 5-10% extra cost } → not necessary

Size (AWG/kcmil)	Number of Strands	O.D. Over Insulation (inches)	175 mil Insulation (100%)			220 mil Insulation (133%)			
			Jacket		Cable Weight (lbs/ft)	O.D. Over Insulation (inches)	Jacket		Cable Weight (lbs/ft)
			Thickness (mils)	O.D. (inches)				Thickness (mils)	
2	7	0.681	80	0.939	0.603	0.773	80	1.031	0.687
1	19	0.709	80	0.967	0.674	0.801	80	1.059	0.761
1/0	19	0.748	80	1.006	0.766	0.840	80	1.098	0.856
2/0	19	0.791	80	1.049	0.879	0.883	80	1.141	0.971
4/0	19	0.894	80	1.152	1.185	0.986	80	1.244	1.286
250	37	0.926	80	1.184	1.328	1.018	80	1.312	1.469
350	37	1.022	80	1.296	1.714	1.114	80	1.388	1.827
500	37	1.142	80	1.416	2.255	1.234	80	1.508	2.376
750	61	1.335	80	1.609	3.167	1.427	80	1.701	3.304
1000	61	1.527	110	1.883	4.195	1.619	110	1.975	4.354
1250	91	-	-	-	-	1.777	110	2.133	5.276
1500	91	-	-	-	-	1.897	110	2.253	6.14
1750	127	-	-	-	-	2.013	110	2.369	7.02
2000	127	-	-	-	-	2.116	110	2.472	7.87

\* For conductors larger than 1000 kcmil 220 mils of insulation is required.

Five minute AC Final Test Voltages  
175 mil Insulation Level: 35kV  
220 mil Insulation Level: 44kV

- EC
- ① Contractors Discount - typical
  - ②
  - ③

300kW  
300,000 watts  
Voltage 15kV  
 $\frac{300000}{9000} = 35 \text{ Amps}$

Electrical guy  
not an engineer

3 conductors w/ 1 Co

Water should handle  
4/0 → (current)

Product will be warranted as long as it is in s

Power

Perelli → being across ocean

Prices are higher than Okonite → better p

• Okonite not in Submarine biz → will not inst