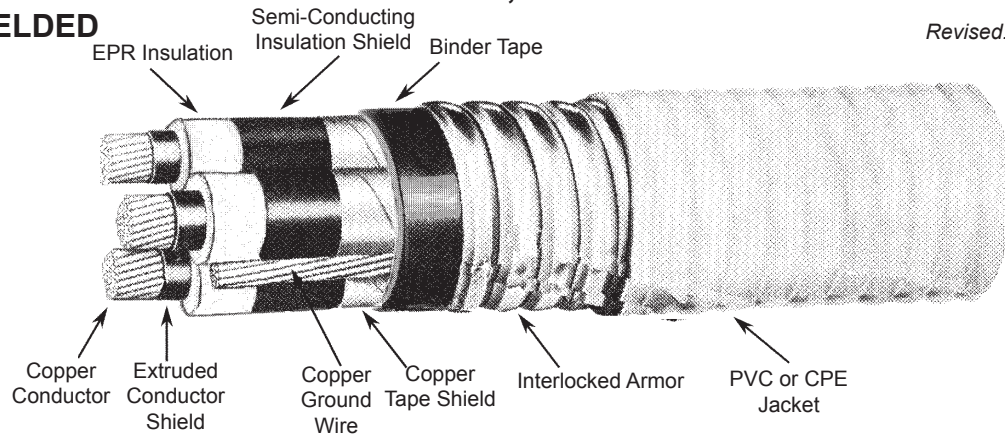


# INTERLOCKED ARMORED POWER CABLE, 5000/8000 VOLT EPR, SHIELDED

**SPEC 3-82-2**  
Ver. 7.1  
Revised: 12/30/08



## 105°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR 133% INSULATION LEVEL

Conductor			Insulation in Mils	Overall Jacket in Mils	Size AWG Copper Ground Wire	Approximate O.D. in Inches	Ampacity** 40°C Ambient	Approximate Net Weight§ LBS/KFT
Size AWG or KCMIL	No. of Strands	Nominal O.D.						

### THREE CONDUCTOR 5000 VOLT (133%) SHIELDED or 8000 VOLT (100%) SHIELDED

6*	7	0.18	115	50	6	1.48	105	1140
4*	7	0.23	115	50	6	1.57	135	1375
2	7	0.27	115	60	6	1.69	185	1725
1*	19	0.32	115	60	4	1.80	210	2055
1/0	19	0.34	115	60	4	2.00	240	2380
2/0	19	0.38	115	60	4	2.09	275	2735
3/0	19	0.42	115	60	3	2.19	315	3205
4/0	19	0.48	115	60	3	2.30	360	3740
250	37	0.52	115	75	2	2.46	400	4375
300*	37	0.61	115	75	2	2.66	445	5065
350	37	0.62	115	75	2	2.67	490	5565
400*	37	0.71	115	75	1	2.86	530	6325
500	37	0.74	115	75	1	2.97	600	7445
600*	61	0.87	115	85	1/0	3.31	660	8934
750	61	0.91	115	85	1/0	3.40	745	10510
1000*	61	1.12	115	85	2/0	3.84	860	13575

### THREE CONDUCTOR 8000 VOLT, SHIELDED, 133% INSULATION LEVEL

4*	7	0.23	140	50	6	1.71	135	1537
2	7	0.27	140	60	6	1.80	185	1865
1*	19	0.32	140	60	4	2.09	210	2295
1/0	19	0.34	140	60	4	2.12	240	2535
2/0	19	0.38	140	60	4	2.20	275	2895
3/0	19	0.42	140	60	3	2.30	315	3375
4/0	19	0.48	140	75	3	2.45	360	3985
250	37	0.52	140	75	2	2.57	400	4565
300*	37	0.61	140	75	2	2.77	445	5270
350	37	0.62	140	75	2	2.78	490	5770
400*	37	0.71	140	75	1	3.02	530	6630
500	37	0.74	140	85	1	3.08	600	7670
600*	61	0.87	140	85	1/0	3.42	660	9185
750	61	0.91	140	85	1/0	3.51	745	10770
1000*	61	1.12	140	85	2/0	3.95	860	13860

**Note:** \*\*Based one three conductor cable isolated in air per NEC. For other installations refer to the NEC.

The above data is approximate and subject to normal manufacturing tolerances.

\*Compressed conductors.

§Weights based on aluminum armor assembly.

#### STANDARDS AND RATINGS:

1. Conforms to ICEA S-93-639/NEMA WC74 Shielded Power Cable 5-46KV.
2. Cable listed by UL as Type MV-105 or MC per Standard 1072.
3. Listed by UL as Sunlight Resistant, for Direct Burial, For CT Use and IEEE 1202.
4. Listed by UL as For CT Use & LS (Aetna 3742 LSOH jacket only)
5. Conforms to ICEA T-29-520 210 KBTU/HR Vertical Tray Flame Test (PVC jacket only)

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