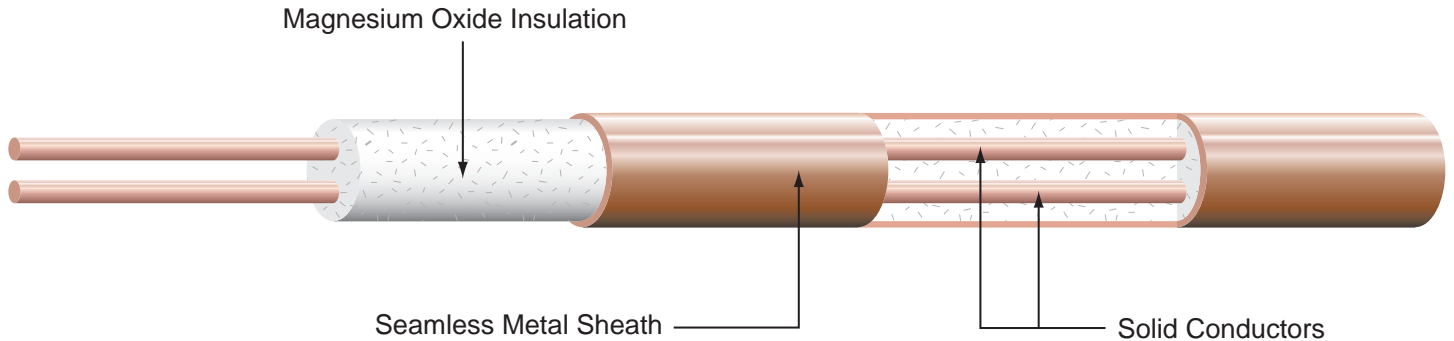


MINERAL INSULATED CABLE

**600 VOLT, 90°C, 16 AWG - 500 KCMIL, METAL SHEATH
MAGNESIUM OXIDE INSULATION
2 HOUR FIRE RATED, (UL) TYPE MI CABLE**



DESCRIPTION

Conductors

Annealed solid electrolytic tough pitch copper
Sizes 16 AWG - 500 kcmil.

Insulation

Compacted refractory magnesium oxide.

Sheath

Seamless, phosphorous deoxidized copper, providing mechanical protection and an adequate path for grounding.

Zero Smoke Generation

Zero Fuel Contribution

Zero Flame Spread

600V Type MI

Mineral Insulated Cable

Temperature Rating:

90°C wet or dry.

Temperature Capability:

250°C continuous.

FEATURES AND BENEFITS

2 Hour Fire Rated

Passed UL 2196. Tested to ASTM E-119 time temperature curve reaching 1850°F at the end of two hours, followed by hose stream, and remaining operational at the conclusion of the test.

2 hour fire rated “electrical circuit protective system”, System 10, under UL system 10 of the “Building Materials Directory” Guide FHIT.

Inorganic Construction

Will not burn, propagate flames or emit toxic fumes.

Waterproof Sheath

Permits outdoor or submersible installation.

Moisture Resistant Fittings

permits use in damp environments.

Rugged

Withstands twisting, pulling, bending and abrasion.

APPLICATIONS

2 Hour Fire Rated

To meet the requirements of an Electrical Circuit Protective System as stated in NFPA 70 Articles 695 and 700.

Fire Pump and Emergency Feeders from the emergency distribution panel.

UL listed as type MI for use in accordance with the National Electrical Code NFPA 70, Article 330.



AWG	Current Rating per		Cable* Ref #	Sheath Ohms per 1000 ft.	Nominal Coil ft.	Nom lb. per 1000ft.	Coil ID, ft	Gland Thread Size
	75C	90C						
Single Conductor								
16	-	24	1/16-215	0.583	3429	84	3	1/2"
14	30	35	1/14-230	0.512	3009	98	3	1/2"
12	35	40	1/12-246	0.450	2649	117	3	1/2"
10	50	55	1/10-277	0.423	1935	154	3	1/2"
8	70	80	1/8-298	0.369	1688	179	3	1/2"
6	95	105	1/6-340	0.286	1309	236	3	1/2"
4	125	140	1/4-402	0.225	909	332	3	1/2"
3	145	165	1/3-449	0.180	729	409	4.5	3/4"
2	170	190	1/2-449	0.183	739	444	4.5	3/4"
1	195	220	1/1-496	0.150	607	492	4.5	3/4"
1/0	230	260	1/1/0-512	0.156	556	601	4.5	3/4"
2/0	265	300	1/2/0-580	0.122	433	771	6	3/4"
3/0	310	350	1/3/0-621	0.098	394	939	6	3/4"
4/0	360	405	1/4/0-684	0.081	327	1128	6	1"
250kcmil	405	455	1/250-746	0.068	275	1341	6	1"
350kcmil	505	570	1/350-834	0.072	317	1675	6	1 1/4"
500kcmil	620	700	1/500-1000	0.050	221	2403	6	1 1/4"
Two Conductor								
16	-	18	2/16-340	0.301	1217	189	3	1/2"
14	20	25	2/14-371	0.323	1062	236	3	1/2"
12	25	30	2/12-402	0.217	876	275	3	1/2"
10	35	40	2/10-449	0.175	706	353	4.5	3/4"
8	50	55	2/8-512	0.148	528	473	4.5	3/4"
6	65	75	2/6-590	0.112	400	663	6	3/4"
4	85	95	2/4-684	0.091	452	877	6	1"
3	100	110	2/3-768	0.072	359	1067	6	1"
2	115	130	2/2-865	0.057	283	1353	6	1 1/4"
1	130	150	2/1-975	0.045	223	1717	6	1 1/4"
Three Conductor								
16	-	18	3/16-355	0.277	1120	210	3	1/2"
14	20	25	3/14-387	0.234	946	257	3	1/2"
12	25	30	3/12-480	0.152	615	395	4.5	3/4"
10	35	40	3/10-480	0.154	621	419	4.5	3/4"
8	50	55	3/8-590	0.102	411	633	6	3/4"
6	65	75	3/6-621	0.102	365	738	6	3/4"
4	85	95	3/4-746	0.071	253	1065	6	1"
3	100	110	3/3-834	0.057	202	1334	6	1 1/4"
Four Conductor								
16	-	18/14	4/16-387	0.234	994	254	3	1/2"
14	20/16	25/20	4/14-465	0.162	654	366	4.5	3/4"
12	25/20	30/24	4/12-465	0.179	639	376	4.5	3/4"
10	35/28	40/32	4/10-590	0.111	397	606	6	3/4"
8	50/40	55/44	4/8-590	0.113	403	658	6	3/4"
6	65/52	75/60	4/6-730	0.074	263	1008	6	1"
Seven Conductor								
16	-	18/13	7/16-449	0.191	681	338	4.5	3/4"
14	20/14	25/18	7/14-496	0.157	561	428	4.5	3/4"
12	25/18	30/21	7/12-543	0.132	471	528	4.5	3/4"
10	35/25	40/28	7/10-621	0.102	363	716	6	1"
8	50/35	55/38	7/8-710	0.078	280	982	6	1"

How to order # of Conductors / AWG - DIAM
eg 3 / 8 - 590

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