



ADVANCED TELEMETRICS



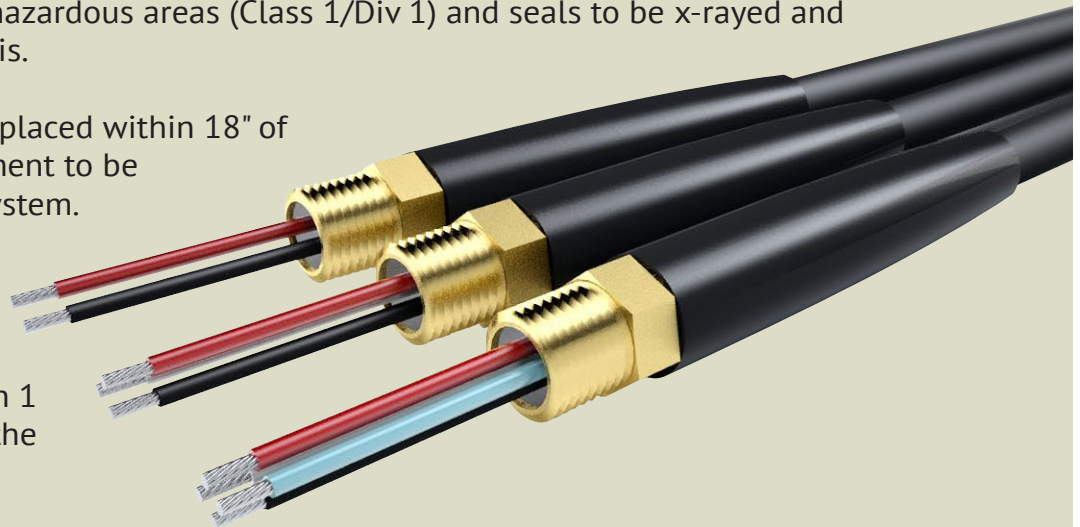
**MAGNACABLE**

MINERAL INSULATED CABLES

## THE MOST ACCURATE LEVEL MEASUREMENT DEVICE ON THE MARKET

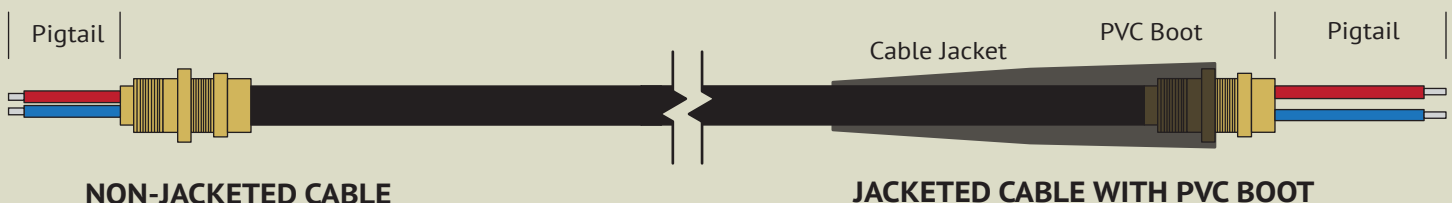
Flexible yet secure, Magnacables are becoming the new standard of wiring in hazardous locations. With the use of Magnacable Mineral Insulated Cable, you not only eliminate the safety concerns of conduit and wire installations, but also eliminate the cost of additional material. Examples of this are the elimination of having to use pull boxes, unions, grounding wires, conduit seals, and other fittings. Magnacables are pressure tested to 2000 PSI and offer superior performance by blocking the passage of gases, vapors, liquids and flames. Magnacable eliminates pressure build-up and confines any exploding gases to their defined area. In contrast, if a conduit seal fails, gas or liquids can leak and a main reason why many companies require single or double conduit seals in hazardous areas (Class 1/Div 1) and seals to be x-rayed and inspected on an annual basis.

Conduit seals must also be placed within 18" of the arcing device or instrument to be connected to the conduit system. Magnacable assemblies are exempt from these requirements and are UL approved for use in Class I, groups B, C and D, Division 1 hazardous areas and meet the requirements of NEC.



### What are Mineral Insulated Cables Made With?

Mineral insulated cables (M.I. Cables) are assembled from a highly conductive copper: ASTM B4 or B5; insulated with compressed magnesium oxide powder; Seamless phosphorous deoxidized copper sheathing; Maximum continuous operating temperature of 250°C; Working voltages of 0-300 volts AC/DC and 0-600 volts AC/DC; factory test voltage 1500 volts RMS (300 volt cable) and 2500 volts RMS (600 volt cable); A power factor of 0.1%; Dielectric strength 70 volts/ml at 475°C.



Advanced Telemetrics | [www.advancedtelemetrics.net](http://www.advancedtelemetrics.net)  
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# Mineral Insulated Cable Specification Chart

## 600 Volt Cables, Fire Resistant (2 Hrs), Copper Sheath, Copper Conductor, UL Listed.

Conductor Size	AWG Size	90°C Current Rating (Amperes)	Nominal** Length of Coil (Feet)	Cable* Reference Number	Approx. Wt. Per 1000 Ft. (LBS)	Gland Connector Thread Size (NPT)		
1	Single Conductor	16	24	3429	1/16-215	84	1/2"	
	14	35	3009	1/14-230	98	1/2"		
	12	40	2649	1/12-246	117	1/2"		
	10	55	1935	1/10-277	154	1/2"		
	8	80	1688	1/8-298	179	1/2"		
	6	105	1309	1/6-340	236	1/2"		
	4	140	909	1/4-402	332	1/2"		
	3	165	729	1/3-449	409	1/2"		
	2	190	739	1/2-449	444	3/4"		
	1	220	607	1/1-496	492	3/4"		
	1/0	260	556	1/0-512	601	3/4"		
	2/0	300	433	2/0-580	771	3/4"		
	3/0	350	394	3/0-621	939	3/4"		
	4/0	405	327	4/0-684	1128	1"		
	250 kcmil	455	275	1/250-746	1341	1"		
	350 kcmil	570	317	1/350-834	1675	1-1/4"		
	500 kcmil	700	221	1/500-1000	2403	1-1/4"		
	2	Two Conductor	16	18	1217	2/16-340	189	1/2"
		14	25	1062	2/14-371	236	1/2"	
		12	30	876	2/12-402	275	1/2"	
10		40	706	2/10-449	353	3/4"		
8		55	528	2/8-512	473	3/4"		
6		75	400	2/6-590	663	3/4"		
4		95	359	2/4-684	1067	1"		

## 600 Volt Cables, Fire Resistant (2 Hrs), Copper Sheath, Copper Conductor, UL Listed.

Conductor Size	AWG Size	90°C Current Rating (Amperes)	Nominal** Length of Coil (Feet)	Cable* Reference Number	Approx. Wt. Per 1000 Ft. (LBS)	Gland Connector Thread Size (NPT)	
3	Three Conductor	16	18	1120	3/16-355	210	1/2"
	14	25	946	3/14-387	257	1/2"	
	12	30	615	3/12-480	395	3/4"	
	10	40	621	3/10-480	419	3/4"	
	8	55	411	3/8-590	633	3/4"	
	6	75	365	3/6-621	738	3/4"	
4	Four Conductor	4	95	253	3/4-746	1065	1"
	16	18/14	994	4/16-387	254	1/2"	
	14	25/20	654	4/14-465	366	3/4"	
	12	30/24	639	4/12-465	376	3/4"	
	10	40/32	397	4/10-590	606	3/4"	
	8	55/44	403	4/8-590	658	3/4"	
7	Seven Conductor	6	75/60	263	4/6-730	1008	1"
	16	18/13	681	7/16-449	338	3/4"	
	14	25/18	561	7/14-496	428	3/4"	
	12	30/21	471	7/12-543	528	3/4"	
10	40/28	363	7/10-621	716	1"		

## 300 Volt Twisted Pair Cables, 2-Hour Fire Resistant, Copper Sheath, Copper Conductor, UL Listed.

Conductor Size	AWG Size	90°C Current Rating (Amperes)	Cable* Reference Number	Nominal** Length of Coil (Feet)	Approx. Wt. Per 1000 Ft. (LBS)	Gland Connector Thread Size (NPT)
Two Conductor	18	NA	1225	324/198/2T	200	1/2"
	16	NA	938	364/230/2T	254	1/2-3/4"



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