

# MAGNACABLE™

MINERAL INSULATED CABLES

## KEEP A SAFE CONNECTION

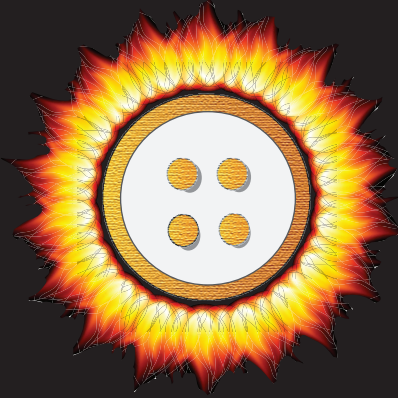
FIRE-HEAT RESISTANT

WATERPROOF

RADIATION RESISTANT

TEMPERATURE STABLE

# SAY NO TO CONDUIT HAZARDS

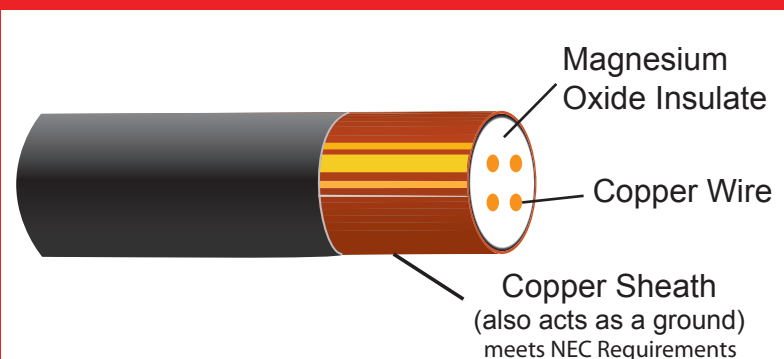


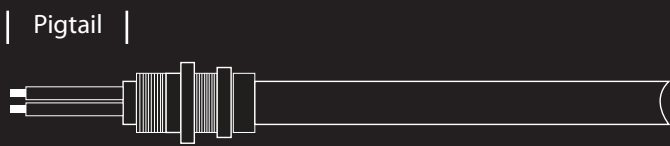
# SAY YES TO MINERAL CABLES

### ADVANTAGES WITH MINERAL INSULATED CABLE:

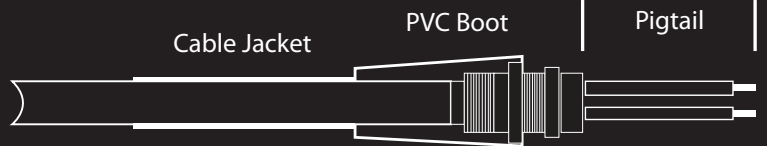
Flexible yet secure, Magnacables are becoming the new standard of wiring in hazardous locations. With the use of Magnacable Mineral Insulated Cable, you not only eliminate the safety concerns of conduit and wire installations, but also eliminate the cost of additional material. Examples of this are the 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 Listed for use in Class I, groups B, C and D, Division I hazardous areas and meet the requirements of NEC.**





**NON-JACKETED CABLE**



**JACKETED CABLE WITH PVC BOOT**

**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 and .

**M.I. Cable Specification Chart (Custom Lengths Available)**

600 Volt Cables, Fire Resistive (2 Hrs), 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)
Single Conductor	16	24	1/16-215	3429	84	1/2"
	14	35	1/14-230	3009	98	1/2"
	12	40	1/12-246	2649	117	1/2"
	10	55	1/10-277	1935	154	1/2"
	8	80	1/8-298	1688	179	1/2"
	6	105	1/6-340	1309	236	1/2"
	4	140	1/4-402	909	332	1/2"
	3	165	1/3-449	729	409	1/2"
	2	190	1/2-449	739	444	3/4"
	1	220	1/1-496	607	492	3/4"
	1/0	260	1/0-512	556	601	3/4"
	2/0	300	2/0-580	433	771	3/4"
	3/0	350	3/0-621	394	939	3/4"
	4/0	405	4/0-684	327	1128	1"
	250 kcmil	455	1/250-746	275	1341	1"
	350 kcmil	570	1/350-834	317	1675	1-1/4"
500 kcmil	700	1/500-1000	221	2403	1-1/4"	
Two Conductor	16	18	2/16-340	1217	189	1/2"
	14	25	2/14-371	1062	236	1/2"
	12	30	2/12-402	876	275	1/2"
	10	40	2/10-449	706	353	3/4"
	8	55	2/8-512	528	473	3/4"
	6	75	2/6-590	400	663	3/4"
	4	95	2/4-684	359	1067	1"

600 Volt Cables, Fire Resistive (2 Hrs), Copper Sheath, Copper Conductor, UL Listed.						
Three Conductor	16	18	3/16-355	1120	210	1/2"
	14	25	3/14-387	946	257	1/2"
	12	30	3/12-480	615	395	3/4"
	10	40	3/10-480	621	419	3/4"
	8	55	3/8-590	411	633	3/4"
	6	75	3/6-621	365	738	3/4"
Four Conductor	16	18/14	4/16-387	994	254	1/2"
	14	25/20	4/14-465	654	366	3/4"
	12	30/24	4/12-465	639	376	3/4"
	10	40/32	4/10-590	397	606	3/4"
	8	55/44	4/8-590	403	658	3/4"
	6	75/60	4/6-730	263	1008	1"
Seven Conductor	16	18/13	7/16-449	681	338	3/4"
	14	25/18	7/14-496	561	428	3/4"
	12	30/21	7/12-543	471	528	3/4"
	10	40/28	7/10-621	363	716	1"

300 Volt Twisted Pair Cables, 2-Hour Fire Resistive, Copper Sheath, Copper Conductor, UL Listed.						
	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	324/198/2T	1225	200	1/2"
	16	NA	364/230/2T	938	254	1/2-3/4"



For More Information Call: 855-299-3156

[www.resourceproduction.com](http://www.resourceproduction.com)

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A Tyco products assembly