

MICC BRAND FIRE WIRING

MICC 1083C CABLE RANGE UL 1083C Approved 2 Hour Rated, Mineral Insulated Copper Sheathed Wiring Cable

Life safety and firefighting equipment often relies on the integrity of the essential wiring system to enable evacuation & firefighting operations. MICC Group Copper Wiring Cable is a UL Classified 2-hour fire resistive cable tested to the UL 2196 fire test standard.

Copper MI (Magnesium Oxide) insulated wiring cables have been in existence since 1936, and their unique qualities, characteristics and unbeatable performance have remained the gold standard for fire rated wiring, as no conduits or concrete protection is required. Studies have shown copper MI insulated wiring cables to be the only fire rated cables that do not produce toxic smoke or gases under fire conditions as there are no organic materials in the cables construction.

	Mineral Cable Construction	Standards & Approvals					
		UL2196 (Standard for Tests for Fire Resistive Cables)					
	——— Copper Conductors	<ul> <li>UL 514B (Conduit, Tubing, and Cable Fittings - Edition 6 - Revision Date 2014/11/21)</li> </ul>					
	Magnesium Oxide (MgO)	<ul> <li>C22.2 NO. 18.3-12 (Conduit, Tubing and Cable Fittings Edition 2 - Revision Date 2014/11/21)</li> </ul>					
	Insulation	<ul> <li>UL 486A-486B (Wire Connectors Edition 3 - Issue Date 2018/04/27)</li> </ul>					
•	Copper Sheath	<ul> <li>CSA C22.2 NO. 65-18 (Wire Connectors Edition 6 - Issue Date 2018/04/27)</li> </ul>					
		<ul> <li>UL504 (Outline of Investigation for Mineral-Insulated, Metal- Sheathed Cable)</li> </ul>					
		• ISO9001					
		<ul> <li>IS014001</li> </ul>					

### Specifications

Copper
Magnesium Oxide (MgO)
Copper
16 AWG - 500 kcmil
1, 2, 3, 4, 7
600 V

## Cable Temperature Rating

Continuous exposure temperature	482 °F (250 °C)
Maximum exposure temperature	1850 °F (1010 °C)

### Wiring Cable Catalog Number

Positi	on	1	2	3	4	5	
Code	е	СС	1	Н	10	W	
Position	Cha	racteris	tics	Coc	le optic	ons	
1	Sh	eath materi	ial	C	C = Coppe	r	
2	Numbe	r of condu	ctor(s)	1 =	1 Conduct	or	
3	Insulati	on voltage	rating		H = 600 V		
4	Co	nductor siz	ze	10 = Conductor size (AWG)			
5	Pro	duct categ	ory	V	V = Wiring		

# 600 V Wiring Cable Type 💑

See the MICC table below for Wiring Cable type.

Number of	AWG Conductor	MICC Cable REE	Conductor Diameter			Cable OD			COND. Resistance / 1000 FT.	Weight / 1000 FT
Conductor(s)	Size	Cable KEF.	MAX. Inch	NOM. Inch	MIN. Inch	MAX. Inch	NOM. Inch	MIN. Inch	MAX.Ω	NOM. LBS.
1	10	CC1H10W	0.113	0.102	0.094	0.279	0.277	0.275	1.080	141.4
1	8	CC1H8W	0.141	0.128	0.119	0.300	0.298	0.296	0.680	169.1
1	6	CC1H6W	0.177	0.162	0.150	0.342	0.340	0.338	0.427	222.1
1	4	CC1H4W	0.225	0.204	0.189	0.404	0.402	0.400	0.269	307.3
1	3	CC1H3W	0.239	0.229	0.221	0.451	0.449	0.447	0.210	377.8
1	2	CC1H2W	0.270	0.258	0.248	0.451	0.449	0.447	0.169	412.5
1	1	CC1H1W	0.299	0.289	0.278	0.498	0.496	0.494	0.130	501.4
1	1/0	CC1H1/0W	0.340	0.325	0.313	0.514	0.512	0.510	0.106	567.4
1	2/0	CC1H2/0W	0.383	0.365	0.351	0.582	0.580	0.578	0.084	715.1
1	3/0	CC1H3/0W	0.426	0.410	0.402	0.623	0.621	0.619	0.067	853.2
1	4/0	CC1H4/0W	0.481	0.460	0.443	0.686	0.684	0.682	0.052	1050.7
1	250MCM	CC1H250W	0.528	0.500	0.480	0.748	0.746	0.744	0.044	1239.1
1	350MCM	CC1H350W	0.618	0.590	0.569	0.836	0.834	0.832	0.032	1611.7
1	500MCM	CC1H500W	0.743	0.707	0.679	1.002	1.000	0.998	0.022	2269.3
2	10	CC2H10W	0.113	0.102	0.094	0.451	0.449	0.447	1.080	319.9
2	8	CC2H8W	0.141	0.128	0.119	0.514	0.512	0.510	0.680	415.8
2	6	CC2H6W	0.177	0.162	0.150	0.592	0.590	0.588	0.427	570.4
2	4	CC2H4W	0.225	0.204	0.189	0.686	0.684	0.682	0.269	795.6
2	3	CC2H3W	0.239	0.229	0.221	0.770	0.768	0.766	0.210	1001.8
2	2	CC2H2W	0.270	0.258	0.258	0.867	0.865	0.863	0.169	1265.5
2	1	CC2H1W	0.299	0.289	0.278	0.977	0.975	0.973	0.130	1591.9
3	10	CC3H10W	0.113	0.102	0.094	0.482	0.480	0.478	1.080	386.1
3	8	CC3H8W	0.141	0.128	0.119	0.592	0.590	0.588	0.680	558.9
3	6	CC3H6W	0.177	0.162	0.150	0.623	0.621	0.619	0.427	693.7
3	4	CC3H4W	0.225	0.204	0.189	0.748	0.746	0.744	0.269	1024.6
3	3	CC3H3W	0.239	0.229	0.221	0.836	0.834	0.832	0.210	1269.1
4	10	CC4H10W	0.113	0.102	0.094	0.592	0.590	0.588	1.080	541.0
4	8	CC4H8W	0.141	0.128	0.119	0.592	0.590	0.588	0.588	617.9
4	6	CC4H6W	0.177	0.162	0.150	0.732	0.730	0.728	0.427	940.9
7	10	CC7H10W	0.113	0.102	0.094	0.623	0.621	0.619	1.080	688.7
7	8	CC7H8W	0.141	0.128	0.119	0.712	0.710	0.708	0.680	960.2

## Termination Kits 👶 MICC Group can offer a full range of accessories to suit your requirement.

MICC cable termination kits are provided by MICC to complement the cable range approved by UL. A complete termination consists of two basic units. They are the seal and the gland. The seal separates and insulates the conductors from each other and from the sheath yet also seals the cable insulation. The gland secures the cable into the apparatus, provides mechanical protection for the seal and provides earth continuity when required.

The brass pot seal is screwed on to the end of the cable and filled with MICC manufactured sealing putty before a disc and sleeving completes the end seal termination.

If a brass compression gland is employed this must be installed on the cable before the pot seal is fitted.

### Termination By Cable Type

See the MICC table below for termination by cable type.

MICC Cable				MICC Seal Kit				Kit Contents			
								Brass Seal Pot	Cap with Insulating Sleeving	TRMX Putty	
MICC PN	OD (Nom. inch)	Cond. OD (Min. inch)	Qty	Cable Config	Kit PN	Gland Thread Size (NPSM)	Qty	Qty	Qty	Qty	
					Single Condu	ictor					
CC1H16W	0.215	0.047	1	1C 16	MI01016-050	1/2"	2	2	2	1	
CC1H14W	0.230	0.059	1	1C 14	MI01014-050	1/2"	2	2	2	1	
CC1H12W	0.246	0.075	1	1C 12	MI01012-050	1/2"	2	2	2	1	
CC1H10W	0.277	0.094	1	1C 10	MI01010-050	1/2"	2	2	2	1	
CC1H8W	0.298	0.119	1	1C 8	MI01008-050	1/2"	2	2	2	1	
CC1H6W	0.340	0.150	1	1C 6	MI01006-050	1/2"	2	2	2	1	
CC1H4W	0.402	0.189	1	1C 4	MI01004-050	1/2"	2	2	2	1	
CC1H3W	0.449	0.221	1	1C 3	MI01003-075	3/4"	2	2	2	2	
CC1H2W	0.449	0.248	1	1C 2	MI01002-075	3/4"	2	2	2	2	
CC1H1W	0.496	0.278	1	1C 1	MI01001-075	3/4"	2	2	2	2	
CC1H1/0W	0.512	0.313	1	1C 1/0	MI011X0-075	3/4"	2	2	2	2	
CC1H2/0W	0.580	0.351	1	1C 2/0	MI012X0-075	3/4"	2	2	2	2	
CC1H3/0W	0.621	0.402	1	1C 3/0	MI013X0-075	3/4"	2	2	2	2	
CC1H4/0W	0.684	0.443	1	1C 4/0	MI014X0-100	1"	2	2	2	2	
CC1H250W	0.746	0.480	1	1C 250	MI01250-125	1-1/4"	2	2	2	3	
CC1H350W	0.834	0.569	1	1C 350	MI01350-125	1-1/4"	2	2	2	3	
CC1H500W	1.000	0.679	1	1C 500	MI01500-125	1-1/4"	2	2	2	3	
					Two Conduc	tors					
CC2H16W	0.340	0.047	1	2C 16	MI02016-050	1/2"	2	2	2	1	
CC2H14W	0.371	0.059	1	2C 14	MI02014-050	1/2"	2	2	2	1	
CC2H12W	0.402	0.075	1	2C 12	MI02012-050	1/2"	2	2	2	1	
CC2H10W	0.449	0.094	1	2C 10	MI02010-075	3/4 "	2	2	2	2	
CC2H8W	0.512	0.119	1	2C 8	MI02008-075	3/4 "	2	2	2	2	
CC2H6W	0.590	0.150	1	2C 6	MI02006-075	3/4 "	2	2	2	2	
CC2H4W	0.684	0.189	1	2C 4	MI02004-100	1"	2	2	2	2	
CC2H3W	0.768	0.221	1	2C 3	MI02003-125	1-1/4"	2	2	2	3	
CC2H2W	0.865	0.248	1	2C 2	MI02002-125	1-1/4"	2	2	2	3	
CC2H1W	0.975	0.278	1	2C 1	MI02001-125	1-1/4"	2	2	2	3	
					Three Conduc	ctors					
CC3H16W	0.355	0.047	1	3C 16	MI03016-050	1/2"	2	2	2	1	
CC3H14W	0.387	0.059	1	3C 14	MI03014-050	1/2"	2	2	2	1	
CC3H12W	0.480	0.075	1	3C 12	MI03012-075	3/4 "	2	2	2	2	
CC3H10W	0.480	0.094	1	3C 10	MI03010-075	3/4 "	2	2	2	2	
CC3H8W	0.590	0.119	1	3C 8	MI03008-075	3/4 "	2	2	2	2	
CC3H6W	0.621	0.150	1	3C 6	MI03006-075	3/4 "	2	2	2	2	
CC3H4W	0.746	0.189	1	3C 4	MI03004-125	1-1/4"	2	2	2	3	
CC3H3W	0.834	0.221	1	3C 3	MI03003-125	1-1/4"	2	2	2	3	
					Four Conduc	tors			·		
CC4H16W	0.387	0.047	1	4C 16	MI04016-050	1/2"	2	2	2	2	
CC4H14W	0.465	0.059	1	4C 14	MI04014-075	3/4"	2	2	2	2	
CC4H12W	0.465	0.075	1	4C 12	MI04012-075	3/4"	2	2	2	2	
CC4H10W	0.590	0.094	1	4C 10	MI04010-075	3/4"	2	2	2	2	
CC4H8W	0.590	0.119	1	4C 8	MI04008-075	3/4 "	2	2	2	2	
CC4H6W	0.730	0.150	1	4C 6	MI04006-125	1-1/4"	2	2	2	3	
					Seven Condu	ctors	_		_	Ű	
CC7H16W	0.449	0.047	1	7C 16	MI07016-075	3/4 "	2	2	2	2	
CC7H14W	0.496	0.059	1	7C 14	MI07014-075	3/4"	2	2	2	2	
CC7H12W	0.543	0.075	1	7C 12	MI07012-075	3/4"	2	2	2	2	
CC7H10W	0.621	0.094	1	7C 10	MI07010-100	1"	2	2	2	2	
	0.710	0 1 1 9	1	70.8	MI07008 125	1 1// "	2	2	2	3	



# MICC 1083C CABLE RANGE 💑

UL 1083C Approved 2 Hour Rated, Mineral Insulated Copper Sheathed Wiring Cable







![](_page_5_Picture_0.jpeg)

# Who Are We 🔒

- MICC Group manufacturers the full range of Mineral Insulated cable products
- We have the largest manufacturing facility of its type in the world, which allows us to manufacture every type of MI Cable
- We have the history and experience of BICC
- Strong R&D and engineering teams
- Global manufacturing network

# Notable References 🖡

We have considerable experience working on MI Fire Survival Wiring as referenced below.

- UK Houses of Parliament
- Shanghai Tower
- Kuwait University
- Delhi Metro
- Sydney Metro
- Dubai Airport
- Royal Papworth Hospital UK
- Hong Kong Metro
- Every Nuclear Power Plant in the UK

![](_page_5_Picture_18.jpeg)

![](_page_5_Picture_19.jpeg)

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![](_page_5_Picture_22.jpeg)

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![](_page_5_Picture_25.jpeg)

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