MICC Fire Resistant Cables

Mineral Insulated Copper Clad cables offer un-paralleled fire performance in the event of an emergency.

In their bare copper sheath form they are completely inert in a fire situation and meet the requirements of the E.U Construction Products Directive. MICC provides circuit integrity up to 3 hours at +950°C with minimal contribution to fire spread. They are the ultimate fire performance cable for densely populated buildings such as hospitals, airports and office towers.

Due to its impervious design MICC is ideal for wiring in hazardous and explosion risk areas. It is also suitable for offshore, radio-active and chemically aggressive environments.

MICC can be supplied as a bare copper cable or with an LSHF coloured sheath for identification in light duty – 500V and heavy duty - 750V versions.

Other versions of MICC can also be supplied including data twisted pair, thermocouple configurations and specialist metals including stainless steel and Inconel® for extreme high temperature and hostile applications.

M2L015H08

Construction

Solid plain copper conductors, magnesium oxide powder insulation, copper tube sheath and a coloured LSHF plastic cover if required.

Technical Information

Voltage Rating:	Light duty 500V, Heavy duty 750V
Conductor Stranding:	IEC 60228 Class 1, circular
Standard Operating Temp:	-80°C to +250°C (dependant on the seal and sheathing type used.)
Fire Resistant:	BS 5839-1 Enhanced, BS EN 50200 PH120, BS 6387 CWZ, BS 8434-2, BS 7346-6 120 min, IEC 60331, IEC 60331-21
Flame Retardant:	IEC 60332-3-22 cat A, BS EN 50265, BS EN 50266
Smoke Emission:	IEC 61034-2, BS EN 50268
Halogen Emission:	IEC 60754-2, BS EN 50267

Some sizes certified by Lloyds Register.

Termination kits can be supplied with the cable, please specify the type required from the options below:

Fire Resistant Kit:	+950°C for 3 hours, also suitable for radioactive installations
Atex Rated Safety Kit:	-20°C to +85°C class "e" for explosive atmospheres
High Temperature Kit:	+250°C glazed insulator
Standard Kit:	-80°C to +105°C for general wiring

Glands, clips, saddles and straps are also available as plain copper or LSHF coated.

Part No.	No. of Cores	Size mm²	Current Rating Amps	Volts Drop mV	O/D of Conductor mm	Weight kg/km	O/D mm
Light Duty							
M2L010Hxx	2	1.0	20	41	1.11	123	6.5
M2L015Hxx	2	1.5	24	29	1.43	156	7.4
M2L025Hxx	2	2.5	34	17	1.77	2103	8.1
M2L040Hxx	2	4.0	43.5	11	2.22	825	9.2
M3L010Hxx	3	1.0	17	37	1.11	159	7.6
M3L015Hxx	3	1.5	21	25	1.43	204	7.7
M3L025Hxx	3	2.5	26	13	1.77	253	9.2
M4L010Hxx	4	1.0	14	35	1.11	186	7.8
M4L015Hxx	4	1.5	23	33	1.43	228	8.3
M4L025Hxx	4	2.5	29	15	1.77	313	9.7
M7L010Hxx	7	1.0	12	43	1.11	267	9.1
M7L015Hxx	7	1.5	15	27	1.43	330	10.4
M7L025Hxx	7	2.5	18	19	1.77	457	11.6
Heavy Duty							
M1H160Hxx	1	16	117	2.2	4.48	358	10.1
M1H250Hxx	1	25	156	1.7	5.68	497	11.4
M1H350Hxx	1	35	189	1.1	6.66	635	12.6
M1H500Hxx	1	50	227	0.85	7.73	812	13.5
M1H700Hxx	1	70	276	0.63	9.35	1077	15.3
M1H950Hxx	1	95	333	0.55	10.99	1416	17.7
M1H120Hxx	1	120	385	0.49	12.35	1707	19.3
M1H150Hxx	1	150	432	0.41	13.7	2058	20.5
M1H185Hxx	1	185	481	0.38	15.15	2512	26.4
M1H240Hxx	1	240	535	0.34	17.3	3211	32.3
M2H015Hxx	2	1.5	23	26	1.43	272	9.7
M2H025Hxx	2	2.5	37	18	1.77	313	10.6
M2H040Hxx	2	4.0	49	9	2.27	399	11.3
M2H060Hxx	2	6.0	63	6	2.73	495	12.5
M2H100Hxx	2	10	80	4.3	3.6	671	14.4
M2H160Hxx	2	16	106	2.8	4.3	912	16.6
M2H250Hxx	2	25	145	1.64	5.68	1278	19.4
M3H015Hxx	3	1.5	22	22	1.43	292	10.2
M3H025Hxx	3	2.5	32	16	1.77	366	11.3
M3H040Hxx	3	4.0	37	9.5	2.27	462	12.1
M4H015Hxx	4	1.5	25	22	1.43	343	10.6
M4H025Hxx	4	2.5	29	16	1.77	428	11.9
M4H040Hxx	4	4.0	42	9.5	2.27	558	13.3
M4H060Hxx	4	6.0	53	7	2.73	699	14.4
M4H100Hxx	4	10	66	3.8	3.6	973	16.6
M4H160Hxx	4	16	87	2.6	4.3	1385	19.8
M4H250Hxx	4	25	118	1.43	5.68	1945	22.9
M7H015Hxx	7	1.5	16	27	1.43	479	12.2
M7H025Hxx	7	2.5	19.5	15	1.77	613	13.8

Part Code Suffix Key: 'xx' = Bare copper without LSHF sheath.

00 Black 03 Red 04 White 08 Orange