

Remora Electrical Limited



**Mineral Insulated
Copper Cables**

Mineral Insulated Cable, The Only True Fire Survival Cable

Copper conductors (Cu-ETP-2) embedded in highly compressed Magnesium Oxide Insulation (MgO) with a Copper sheath (Cu-DHP) and an optional outer coloured LSF polymer sheath.

Fire Resistant

Will neither burn or support combustion

High Operation Temperatures

Continuous operating temperature up to 250°C, and for short periods up to temperatures approaching the melting point of Copper, 1083°C.

Inherent Flameproof Barrier

With a non-flammable sheath the highly compacted insulation will resist the transmission of vapours, gases or flames between items of equipment connected by the cable.

Non-Ageing

Mineral Insulated cable is permanent and non-ageing as its conductors, sheath and insulation are for all practical purposes, indestructible.

Waterproof

The metal sheath is impervious to water, oil and gas.

Mechanical Strength

Mineral Insulated cable is really robust and can withstand a considerable amount of stresses such as, twisting, bending and flattening.

Earth Continuity

Mineral Insulated cable does not require a separate circuit protective conductors as the copper sheath serves this purpose providing excellent low resistance earth continuity.

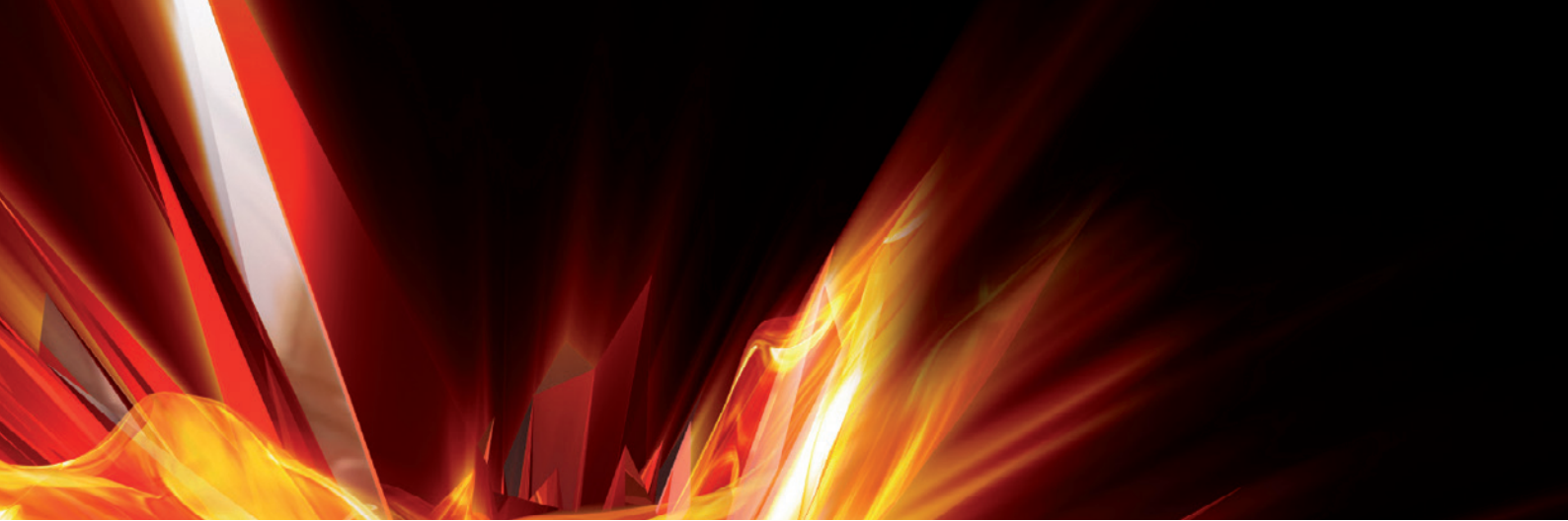
Pliable

Mineral Insulated cable is fully annealed and consequently extremely ductile and easily manipulated to follow existing wiring routes and irregular shapes.

Small Overall Diameter

Mineral Insulated cables have a much smaller diameter than soft skinned fire resistant cables of equivalent rating.





Application

Mineral Insulated cable can withstand temperatures in excess of 1000°C and still operate at its rated voltage. This impressive performance can add vital time to escape a fire and makes it ideal for use in many applications, including:-

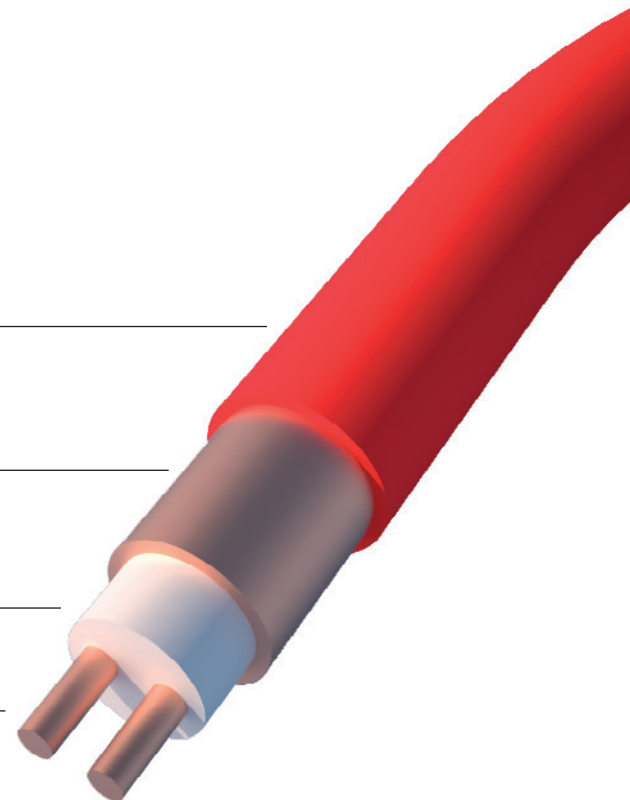
- **Property & Personnel Safety**
Shopping malls, airports, underground rail systems, schools, hospitals, hotels, theatres, churches.
- **High Temperature Situations**
Foundries, Power Stations, Boiler Houses, Iron & Steel Industries, Marine & Ship building
- **General Installations**
Power Distribution & Sub Circuits:- Fire Alarms & Emergency, Lifts & Escalators Lighting, Lighting & Power
- **Potentially Explosive Area**
Refineries, Chemical Plants, Oil & Gas Production, Filling Stations, Processing Plants, Garages
- **Services**
Railway Stations, Road & Rail Tunnels, Public Lighting, Multi-storey Car Parks, Public Service Buildings
- **Hygiene**
Food & Drink Processing, Pharmaceutical Works, Hospitals, Kitchens, Refrigeration Plants

LSF Outer Sheath

Solid Copper Sheath

Magnesium Oxide Insulation

Solid Copper Conductors



Cable Size Reference	Conductors		Current Ratings		Volt Drop	Sheath Cross Section Area (Effective mm ²)	Earth Fault Loop Impedance @ 70°C (R1 + R2) Ohms / KM	Maximum Conductor Resistance Ohms per 1000 metres 20°C	Cable Diameter		Approx Longest Coil Length	Approx Weight Per 1000 metres		Gland Size		Cable Fixings			
	No X SQ MM		Cables Exposed to Touch						Bare (mm)	LSF Covered (mm)		Bare (kgs)	LSF Covered (kgs)	Plain Seal (mm)	Earth Tail (mm)	One Hole Clips		Two Way Saddles	
			Bare (AMPS)	Covered (AMPS)	Per AMP/Per Metre mV											Bare Copper	LSF Coated	Bare Copper	LSF Coated
LIGHT DUTY CABLE (500 VOLTS)																			
2L 1.0	2	1.0	16.5	18.5	42	5.4	26.590	18.1	5.1	6.6	1500	105	124	20	20	20	26	202	272
2L 1.5	2	1.5	20.5	23	28	6.3	18.627	12.1	5.7	7.2	1500	132	156	20	20	22	28	222	302
2L 2.5	2	2.5	28	31	17	8.2	11.980	7.41	6.6	8.1	1500	184	207	20	20	26	32	272	342
2L 4.0	2	4.0	36	40	10	10.7	7.915	4.61	7.7	9.4	1000	253	290	20	20	30	37	302	382
3L 1.0	3	1.0	13.5	15	36	6.7	25.637	18.1	5.8	7.3	1500	132	159	20	20	22	28	242	302
3L 1.5	3	1.5	17	19	24	7.8	17.823	12.1	6.4	7.9	1500	172	199	20	20	24	30	272	342
3L 2.5	3	2.5	23.5	26	14	9.5	11.621	7.41	7.3	9.0	1000	234	270	20	20	28	34	302	342
4L 1.0	4	1.0	13.5	15	36	7.7	25.111	18.1	6.3	7.8	15000	164	191	20	20	24	30	272	342
4L 1.5	4	1.5	17.5	19.5	24	9.1	17.416	12.1	7.0	8.5	1500	209	243	20	20	28	34	302	342
4L 2.5	4	2.5	23.5	26	14	11.3	11.166	7.41	8.1	9.8	1000	288	333	20	20	32	37	342	422
7L 1.0	7	1.0	9	10	42	10.2	24.333	18.1	7.6	9.3	515	237	271	25	25	30	37	302	382
7L 1.5	7	1.5	11.5	13	28	11.8	16.758	12.1	8.4	10.1	415	310	351	25	25	32	40	342	422
7L 2.5	7	2.5	15.5	17.5	17	15.4	10.580	7.41	9.7	11.4	360	433	475	25	25	37	43	382	462
HEAVY DUTY CABLE (750 VOLTS)																			
1 H6	1	6	47	52	6	8	5.318	3.08	6.4	7.9	600	173	213	20	20	24	30	272	342
1 H10	1	10	63	70	3.6	9	3.545	1.83	7.3	9.0	635	241	274	20	25	28	34	302	342
1 H16	1	16	83	92	2.3	12	2.471	1.15	8.3	10.0	475	327	364	20	25	32	37	342	422
1 H25	1	25	108	120	1.45	15	1.715	0.727	9.6	11.3	360	458	500	20	32	37	43	382	462
1 H35	1	35	132	147	1.05	18	1.329	0.524	10.7	12.4	295	600	650	20	32	40	47	422	502
1 H50	1	50	163	181	0.79	22	1.040	0.387	12.1	13.8	230	760	812	25	40	47	54	502	542
1 H70	1	70	199	221	0.55	27	0.781	0.268	13.7	15.4	215	1019	1080	25	-	54	59	542	632
1H95	1	95	237.5	264	0.41	32	0.619	0.193	15.4	17.7	170	1326	1416	25	-	59	67	632	702
1H120	1	120	272.5	303	0.33	37	0.516	0.153	16.8	19.1	120	1615	1713	32	-	63	75	702	752
1H150	1	150	311	346	0.29	44	0.435	0.124	18.4	20.7	95	1952	2059	32	-	71	79	752	812
1H185	1	185	353	392	0.25	54	0.368	0.101	20.4	23.2	85	2425	2570	32	-	79	88	812	932
1H240	1	240	411	457	0.21	70	0.297	0.0775	23.3	26.1	60	3146	3312	40	-	88	101	932	1042

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	No X SQ MM		Cables Exposed to Touch						Bare (mm)	LSF Covered (mm)		Bare (kgs)	LSF Covered (kgs)	Plain Seal (mm)	Earth Tail (mm)	One Hole Clips		Two Way Saddles	
			Bare (AMPS)	Covered (AMPS)	Per AMP/Per Metre mV											Bare Copper	LSF Coated	Bare Copper	LSF Coated
HEAVY DUTY CABLE (750 VOLTS) Cont...																			
2 H1.5	2	1.5	22.5	25	28	11	16.902	12.1	7.9	9.6	1000	247	284	20	20	30	37	342	382
2 H2.5	2	2.5	30.5	34	17	13	10.903	7.41	8.7	10.4	750	280	335	20	20	34	40	342	422
2 H4	2	4	40.5	45	10	16	7.185	4.61	9.8	11.5	700	365	415	20	25	37	43	422	462
2H6	2	6	51	57	7	18	5.073	3.08	10.9	12.6	700	463	510	20	25	43	47	462	502
2 H10	2	10	69	77	4.2	24	3.272	1.83	12.7	14.4	500	653	725	25	32	47	54	502	592
2 H16	2	16	92	102	2.6	30	2.220	1.15	14.7	16.4	135	855	918	25	40	54	62	592	702
2 H25	2	25	119.5	133	1.65	38	1.531	0.727	17.1	19.4	120	1185	1285	32	40	67	75	702	752
3 H1.5	3	1.5	19	21	24	12	16.722	12.1	8.3	10.0	750	265	310	20	20	32	37	342	422
3 H2.5	3	2.5	25	28	14	14	10.711	7.41	9.3	11.0	700	345	390	20	25	37	43	382	462
3 H4	3	4	33	37	9.1	17	7.041	4.61	10.4	12.1	650	452	495	20	25	40	47	422	502
3 H6	3	6	43	48	6	20	4.953	3.08	11.5	13.2	600	562	602	25	25	43	51	462	542
3 H10	3	10	58.5	65	3.6	27	3.147	1.83	13.6	15.3	160	758	817	25	32	54	59	542	632
3 H16	3	16	77	86	2.3	34	2.133	1.15	15.6	17.9	140	1039	1130	25	40	59	71	632	752
3 H25	3	25	101	112	1.45	42	1.476	0.727	18.2	20.5	100	1451	1557	40	40	71	79	752	812
4 H1.5	4	1.5	19	21	24	14	16.435	12.1	9.1	10.8	750	330	370	20	20	37	43	382	462
4 H2.5	4	2.5	25	28	14	16	10.496	7.41	10.1	11.8	700	412	445	20	25	40	47	422	462
4 H4	4	4	33	37	9.1	20	6.814	4.61	11.4	13.1	650	530	608	25	25	43	51	462	542
4 H6	4	6	43	48	6	24	4.782	3.08	12.7	14.4	500	740	790	25	32	47	54	502	592
4 H10	4	10	58.5	65	3.6	30	3.036	1.83	14.8	16.5	160	916	979	25	32	54	63	592	702
4 H16	4	16	77	86	2.3	39	2.026	1.15	17.3	19.6	115	1292	1393	32	40	67	75	702	752
4 H25	4	25	101	112	1.45	49	1.384	0.727	20.1	22.9	80	1813	1956	40	40	79	88	812	932
7 H1.5	7	1.5	13	14.5	28	18	16.004	12.1	10.8	12.5	245	435	482	25	25	43	47	462	502
7 H2.5	7	2.5	17.5	19.5	17	22	10.100	7.41	12.1	13.8	205	563	616	25	25	47	54	502	542
12 H1.5	12	1.5	10.5	12	28	29	15.519	12.1	14.1	15.8	170	710	770	32	-	54	59	592	632
12H H2.5	12	2.5	14.5	16	17	34	9.706	7.41	15.6	17.9	140	910	1001	32	-	59	71	632	752
19 H1.5	19	1.5	9	10	28	37	15.310	12.1	16.6	18.9	120	989	1086	40	-	63	71	702	752

MICC Cable Components



RGM Glands
Brass compression glands for EExd and general applications.



RPS Seal Kit
Termination seals without earth tail
Kit contains; Seal pots, RMX compound, Stud caps, Conductor sleeving.



RPSL Earth Tail Kit
Termination seals with built in earth tail.
Kit contains; Earth tail seal pots, RMX compound, Stud caps, Conductor and earth sleeving.



RCHL 'P' Clips
'P' Clips are manufactured from Copper available in bare or LSZH (Low Smoke Zero Halogen) powder coated, designed to secure a single cable



RSFL Saddle Clips
Saddle Clips are manufactured from Copper available in bare or LSZH (Low Smoke Zero Halogen) powder coated, designed to secure two cables



Brass Locknuts & Serrated Washers
Used to secure and fix RGM glands



PVC Shrouds
Manufactured from PVC material, available in four sizes and colours M20, M25, M32, M40 / Black, Orange, Red and White.



Low Smoke PVC Shrouds
Manufactured from Low Smoke PVC plastisol with reduced Halogens and available in four sizes and colours M20, M25, M32, M40 / Black, Orange, Red and White.



LST Low Smoke and Toxicity Shroud
Manufactured from LST (Low Smoke and Toxicity) Silicone material and available in four sizes & colours M20, M25, M32, M40 / Black, Orange, Red and White.

MICC Cable Gland Tooling



ZSJ
The Joystripper is designed for stripping the Copper sheath on popular cable sizes, including; 2L1 2L1.5 2L2.5 3L1 3L1.5 4L1 4L1.5
Replacement blades ZSJB



ZSUS & ZSU
The Rotary stripper can be used on all cable sizes throughout the range.
ZSUS – Cables upto 9mm OD
ZSUSB – Replacement blades
ZSU – Cables over 9mm OD
ZSUB – Replacement blades



ZR
Used to score a light groove around the cables sheath to neatly stop the stripping action.



ZPM
Pot Wrench tool ensures quick accurate screwing of the brass pot and is used in conjunction with the appropriate RGM gland.



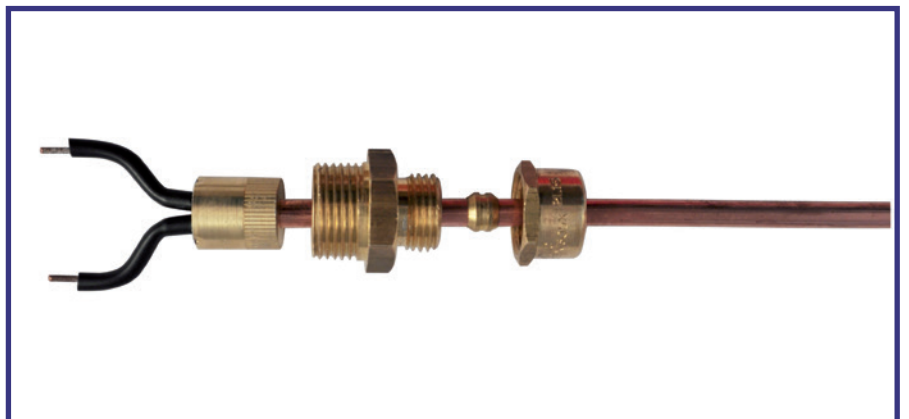
ZRP
Wrench tool is quick & easy tool for screwing on brass seal pots, 20mm pots only.



ZDD
Plate Crimper tool locks the stub cap into the pot by three crimp indentations. This is a low cost tool with a life of approximately 100 operations. Available in 20mm, 25mm, 32mm & 40mm sizes.



ZDC
Hand Crimper is a robust long life tool for crimping stub caps into brass seal pots, quickly and easily.



MICC Cable Saves Lives

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