

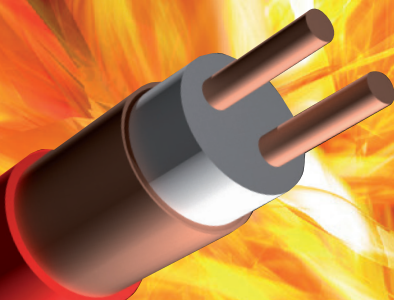


MICH

Leading Mineral Insulated Cables Manufacturer

Mineral Insulated Copper Cables

Cables that Saves Lives



EXPORT CATALOGUE
Edition: 2019/20

EN 60702-1:2002
BS 6387:2013 (Category CWZ)
EN 50267-2-1: 1999
EN 50200:2006 (Class PH120)
BS 8434-2:2003+A2:2009
BS 5839-1: 2013 (Clause 26.2e Enhanced)

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.



Applicable Standards

EN 60702-1:2002
 BS 6387:2013 (Category CWZ)
 EN 50267-2-1: 1999
 EN 50200:2006 (Class PH120)
 BS 8434-2:2003+A2:2009
 BS 5839-1: 2013 (Clause 26.2e Enhanced)

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

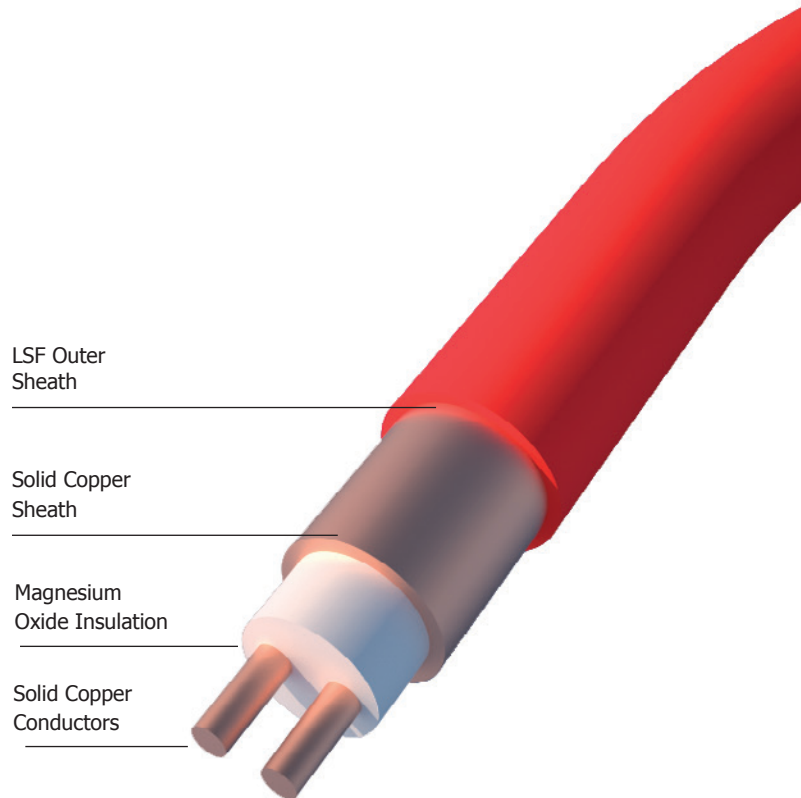
- Refineries, Chemical Plants, Oil & Gas Production, Filling Stations, Processing Plants, Garages

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



CABLE DATA

CABLE SIZE REFERENCE BARE CABLE CC LSF COVERED CCM	NUMBER & CROSS SECTIONAL AREA OF CONDUCTORS	CURRENT RATINGS		VOLT DROP	CABLE DIAMETER		APPROXIMATE NOMINAL CONDUCTOR DIAMETER	CORE RESISTANCE	COPPER SHEATH SECTION	COPPER SHEATH RESISTANCE	APPROXIMATE LONGEST COIL LENGTHS FOR ESTIMATING PURPOSES	COIL DIAMETERS	APPROX. WEIGHT PER 1000M	
		LSF	BARE	PER AMP PER METRE	LSF	BARE							LSF	BARE
FOLLOWED BY	No. x sq mm	amps**	amps**	mV**	mm		mm	Ohm/km	mm ²	Ohm/km	m	mm	kg	
Mineral Insulated Cables - Light Duty - 500V														
2L1	2x1	19.5	17.5	42	6.6	5.1	1.13	17.24	6.04	2.85	1800	1200	125	104
2L1.5	2x1.5	25	22.5	28	7.2	5.7	1.39	11.49	7.12	2.42	1400	1200	159	136
2L2.5	2x2.5	33	30	17	8.1	6.6	1.77	6.90	9.41	1.83	1100	1200	213	187
2L4	2x4	44	40	10	9.4	7.7	2.25	4.31	12.15	1.42	800	1200	282	248
3L1*	3x1	16.5	15	36	7.3	5.8	1.13	17.24	7.56	2.28	1500	1200	159	136
3L1.5*	3x1.5	21	19	24	7.9	6.4	1.39	11.49	8.93	1.93	1100	1200	201	176
3L2.5*	3x2.5	28	25	14	9.0	7.3	1.77	6.90	10.68	1.61	900	1200	256	223
4L1*	4x1	16	14.5	36	7.8	6.3	1.13	17.24	8.78	1.96	1200	1200	187	162
4L1.5*	4x1.5	21	19	24	8.5	7.0	1.39	11.49	10.21	1.69	900	1200	230	203
4L2.5*	4x2.5	28	25	14	9.8	8.1	1.77	6.9	12.83	1.34	700	1200	313	277
7L1	7x1	11	10	42	9.3	7.6	1.13	17.24	11.57	1.49	800	1200	269	236
7L1.5	7x1.5	14	12.5	28	10.1	8.4	1.39	11.49	13.33	1.29	600	1200	332	295
7L2.5	7x2.5	19	17	17	11.4	9.7	1.77	6.9	17.42	0.99	500	1200	454	411
Mineral Insulated Cables - Heavy Duty - 750V														
1H1.5*	1x1.5	33	30	21.8	6.2	4.9	1.39	11.49	5.78	2.98	1500	1200	117	97
1H2.5*	1x2.5	43	39	13.5	6.6	5.3	1.77	6.90	6.44	2.68	1300	1200	137	116
1H4*	1x4	56	51	8.3	7.2	5.9	2.25	4.31	7.70	2.24	1050	1200	170	146
1H6*	1x6	69	63	5.6	7.7	6.4	2.75	2.87	8.93	1.93	1200	1200	206	180
1H10*	1x10	90	81	3.6	9.0	7.3	3.57	1.72	10.68	1.61	950	1200	273	240
1H16*	1x16	119	107	2.3	10.0	8.3	4.50	1.08	13.16	1.31	730	1200	361	326
1H25*	1x25	154	139	1.5	11.3	9.6	5.66	0.69	16.96	1.02	540	1200	499	457
1H35*	1x35	187	168	1.1	12.4	10.7	6.66	0.49	20.23	0.85	440	1600	632	585
1H50*	1x50	230	207	0.87	13.8	12.1	7.75	0.34	24.73	0.70	350	1600	810	758
1H70*	1x70	279	251	0.65	15.4	13.7	9.32	0.25	30.90	0.56	275	1600	1075	1016
1H95*	1x95	333	300	0.53	17.7	15.4	10.98	0.18	36.69	0.47	220	1600	1413	1324
1H120*	1x120	382	344	0.46	19.1	16.8	12.33	0.14	42.59	0.40	190	1600	1709	1612
1H150*	1x150	431	388	0.42	20.7	18.4	13.70	0.11	49.48	0.35	155	1600	2055	1949
1H185*	1x185	482	434	0.39	23.2	20.4	15.18	0.09	57.47	0.30	125	1600	2514	2370
1H240*	1x240	537	483	0.36	26.1	23.3	17.33	0.07	69.39	0.25	99	1600	3213	3035
1H300*	1x300	883	395	0.31	28.8	26.0	19.37	0.06	84.55	0.20	80	1800	3972	3791
1H400*	1x400	1053	948	0.28	32.8	30.0	22.37	0.04	105.97	0.16	60	1800	5211	5004
2H1.5	2x1.5	26	23.5	28	9.6	7.9	1.39	11.49	12.49	1.38	750	1200	272	237
2H2.5	2x2.5	36	32	17	10.4	8.7	1.77	6.90	14.56	1.18	610	1200	314	276
2H4	2x4	47	42	10	11.5	9.8	2.25	4.31	17.61	0.98	480	1200	397	355
2H6	2x6	60	54	7	12.6	10.9	2.75	2.87	20.93	0.82	370	1600	493	446
2H10	2x10	82	74	4.2	14.4	12.7	3.57	1.72	26.74	0.64	280	1600	673	619
2H16	2x16	109	98	2.6	16.4	14.7	4.50	1.08	34.11	0.51	205	1600	912	850
2H25	2x25	142	128	1.65	19.4	17.1	5.66	0.69	43.39	0.40	150	1600	1277	1178
3H1.5*	3x1.5	22	20	24	10.0	8.3	1.39	11.49	13.62	1.27	670	1200	290	254
3H2.5*	3x2.5	30	27	14	11.0	9.3	1.77	6.9	16.14	1.07	520	1200	364	323
3H4*	3x4	40	36	9.1	12.1	10.4	2.25	4.31	19.34	0.89	420	1600	460	415
3H6*	3x6	51	46	6	13.2	11.5	2.75	2.87	23.11	0.75	345	1600	575	526
3H10*	3x10	69	62	3.6	15.3	13.6	3.57	1.72	30.28	0.57	245	1600	812	754
3H16*	3x16	92	83	2.3	17.9	15.6	4.50	1.08	38.07	0.45	180	1600	1124	1034
3H25*	3x25	120	108	1.45	20.5	18.2	5.66	0.69	47.37	0.36	135	1600	1549	1444
4H1.5*	4x1.5	23	20.5	24	10.8	9.1	1.39	11.49	15.77	1.09	560	1200	345	305
4H2.5*	4x2.5	30	27	14	11.8	10.1	1.77	6.90	18.47	0.93	445	1600	428	384
4H4*	4x4	40	36	9.1	13.1	11.4	2.25	4.31	22.90	0.75	350	1600	556	507
4H6*	4x6	51	46	6	14.4	12.7	2.75	2.87	26.74	0.64	270	1600	698	644
4H10*	4x10	68	61	3.6	16.5	14.8	3.57	1.72	34.36	0.50	205	1600	974	911
4H16*	4x16	89	80	2.3	19.6	17.3	4.50	1.08	44.42	0.39	148	1600	1386	1286
4H25*	4x25	116	104	1.45	22.9	20.1	5.66	0.69	56.01	0.31	124	1600	1947	1805
7H1.5	7x1.5	15.5	14	28	12.5	10.8	1.39	11.49	20.73	0.83	385	1600	479	432
7H2.5	7x2.5	21	19	17	13.8	12.1	1.77	6.90	24.73	0.70	310	1600	611	559
12H1.5	12x1.5	13	11.5	28	15.8	14.1	1.39	11.49	31.85	0.54	210	1600	772	712
12H2.5	12x2.5	17	15.5	17	17.9	15.6	1.77	6.90	37.64	0.46	175	1600	1001	911
19H1.5	19x1.5	11	10	28	18.9	16.6	1.39	11.49	41.59	0.41	150	1600	1088	992

CABLE DATA

SCREW ON SEAL 105°C		EXTERNALLY THREADED GLAND		MICC LSF COVERED CLIPS AND SADDLES				CABLE SIZE REFERENCE BARE CABLE CC LSF COVERED CCM
				MICC CLIP		MICC SADDLE		
PLAIN SEAL	EARTH TAIL SEAL	FOR PLAIN SEAL	FOR EARTH TAIL SEAL	BARE COPPER FOR BARE CABLES	LSF COATED FOR COVERED CABLES	BARE COPPER FOR BARE CABLES	LSF COATED FOR COVERED CABLES	
RPS	RPSL	RGM	RGM	RC	RCHL	RS	RSFL	FOLLOWED BY
Mineral Insulated Cables - Light Duty - 500V								
2L1 20	2L1 20	2L1 20	2L1 20	20	26	202	272	2L1
2L1.5 20	2L1.5 20	2L1.5 20	2L1.5 20	22	28	222	302	2L1.5
2L2.5 20	2L2.5 20	2L2.5 20	2L2.5 20	26	32	272	342	2L2.5
2L4 20	2L4 20	2L4 20	2L4 20	30	37	302	382	2L4
3L1 20	3L1 20	3L1 20	3L1 20	22	28	242	302	3L1*
3L1.5 20	3L1.5 20	3L1.5 20	3L1.5 20	24	30	272	342	3L1.5*
3L2.5 20	3L2.5 20	3L2.5 20	3L2.5 20	28	34	302	342	3L2.5*
4L1 20	4L1 20	4L1 20	4L1 20	24	30	272	342	4L1*
4L1.5 20	4L1.5 20	4L1.5 20	4L1.5 20	28	34	302	342	4L1.5*
4L2.5 20	4L2.5 20	4L2.5 20	4L2.5 20	32	37	342	422	4L2.5*
7L1 25	7L1 25	7L1 25	7L1 25	30	37	302	382	7L1
7L1.5 25	7L1.5 25	7L1.5 25	7L1.5 25	32	40	342	422	7L1.5
7L2.5 25	7L2.5 25	7L2.5 25	7L2.5 25	37	43	382	462	7L2.5
Mineral Insulated Cables - Heavy Duty - 750V								
1H1.5 20	1H1.5 20	1H1.5 20	1H1.5 20	20	26	202	272	1H1.5*
1H2.5 20	1H2.5 20	1H2.5 20	1H2.5 20	22	26	222	272	1H2.5*
1H4 20	1H4 25	1H4 20	1H4 25	22	28	242	302	1H4*
1H6 20	1H6 25	1H6 20	1H6 25	24	30	272	342	1H6*
1H10 20	1H10 25	1H10 20	1H10 25	28	34	302	342	1H10*
1H16 20	1H16 25	1H16 20	1H16 25	32	37	342	422	1H16*
1H25 20	1H25 32	1H25 20	1H25 32	37	43	382	462	1H25*
1H35 20	1H35 32	1H35 20	1H35 32	40	47	422	502	1H35*
1H50 25	1H50 40	1H50 25	1H50 40	47	54	502	542	1H50*
1H70 25	—	1H70 25	—	54	59	542	632	1H70*
1H95 25	—	1H95 25	—	59	67	632	702	1H95*
1H120 32	—	1H120 32	—	63	75	702	752	1H120*
1H150 32	—	1H150 32	—	71	79	752	812	1H150*
1H185 32	—	1H185 32	—	79	88	812	932	1H185*
1H240 40	—	1H240 40	—	88	101	932	1042	1H240*
2H1.5 20	2H1.5 20	2H1.5 20	2H1.5 20	30	37	342	382	2H1.5
2H2.5 20	2H2.5 20	2H2.5 20	2H2.5 20	34	40	342	422	2H2.5
2H4 20	2H4 25	2H4 20	2H4 25	37	43	422	462	2H4
2H6 20	2H6 25	2H6 20	2H6 25	43	47	462	502	2H6
2H10 25	2H10 32	2H10 25	2H10 32	47	54	502	592	2H10
2H16 25	2H16 40	2H16 25	2H16 40	54	63	592	702	2H16
2H25 32	2H25 40	2H25 32	2H25 40	67	75	702	752	2H25
3H1.5 20	3H1.5 20	3H1.5 20	3H1.5 20	32	37	342	422	3H1.5*
3H2.5 20	3H2.5 25	3H2.5 20	3H2.5 25	37	43	382	462	3H2.5*
3H4 20	3H4 25	3H4 20	3H4 25	40	47	422	502	3H4*
3H6 25	3H6 25	3H6 25	3H6 25	43	51	462	542	3H6*
3H10 25	3H10 32	3H10 25	3H10 32	54	59	542	632	3H10*
3H16 25	3H16 40	3H16 25	3H16 40	59	71	642	752	3H16*
3H25 40	3H25 40	3H25 40	3H25 40	71	79	752	812	3H25*
4H1.5 20	4H1.5 20	4H1.5 20	4H1.5 20	37	43	382	462	4H1.5*
4H2.5 20	4H2.5 25	4H2.5 20	4H2.5 25	40	47	422	462	4H2.5*
4H4 25	4H4 25	4H4 25	4H4 25	43	51	462	542	4H4*
4H6 25	4H6 32	4H6 25	4H6 32	47	54	502	592	4H6*
4H10 25	4H10 32	4H10 25	4H10 32	54	63	592	702	4H10*
4H16 32	4H16 40	4H16 32	4H16 40	67	75	702	752	4H16*
4H25 40	4H25 40	4H25 40	4H25 40	79	88	812	932	4H25*
7H1.5 25	7H1.5 25	7H1.5 25	7H1.5 25	43	47	462	502	7H1.5
7H2.5 25	7H2.5 25	7H2.5 25	7H2.5 25	47	54	502	542	7H2.5
12H1.5 32	—	12H1.5 32	—	54	59	592	632	12H1.5
12H2.5 32	—	12H2.5 32	—	59	71	632	752	12H2.5
19H1.5 40	—	19H1.5 40	—	63	71	702	752	19H1.5

MI wiring cable terminations

TERMINATIONS

A complete termination comprises a seal to provide a means of connection and a gland to secure the cable into the appropriate apparatus.

Externally threaded brass compression glands are available for the entire cable range with ISO metric threads (Ref. RGM) as standard. Other thread forms are available on request.

Internally threaded 20mm ISO metric brass compression glands (Ref. RGU) are available for the full range of 2, 3 and 4 conductor, 500 volt cables. This type of gland is not available with other thread forms.

There are self-threading screw-on brass seals for the entire cable range and these incorporate a variety of sealants and conductor insulating sleeves to suit most applications and environments.

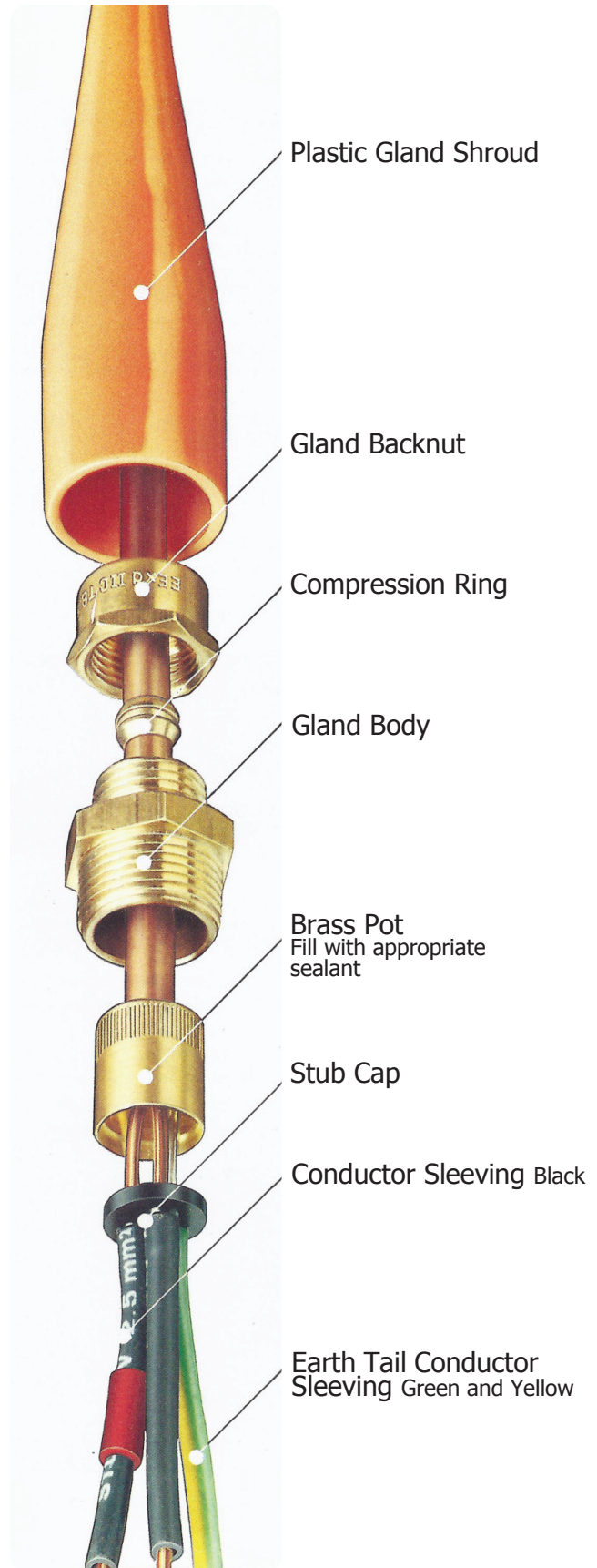
Seals, glands, gland locknuts and lockwashers are supplied in packs as follows:

Size ref	20mm	25mm	32mm	40mm
No. in pack	10	2	2	2

Additional RMX grey plastic compound may be ordered in 166g packs, sufficient to fill 32 x 20mm, 10 x 25, 5 x 32mm, or 2 x 40mm sealing pots.

Additional RMG glazing flux may be ordered in 100g packs, sufficient to fill 10 x 20mm, 3 x 25mm, 2 x 32mm or 1 x 40mm sealing pot.

Pvc shrouds suitable for all gland sizes are supplied in packs on 10.



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.



RCCH '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.



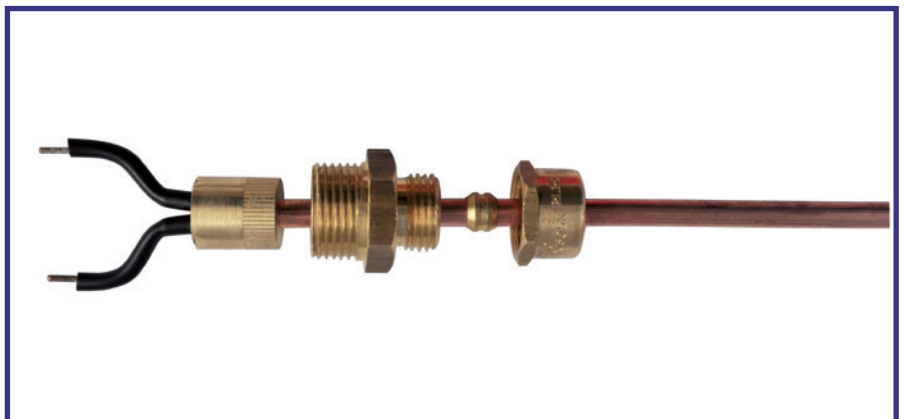
ZRP
Wrench tool is quick & easy tool for screwing on brass seal pots, 20mm pots only.



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.





MICH

Leading Mineral Insulated Cables Manufacturer

PASIA COMPOSITES CO., LTD, IRLAND
PLANT : PASIA INDUSTRIES LIMITED - CHINA

Export Tel: +965-9757-8704
Factory Tel: + 86-573-88259179
Factory Fax: +86-573-88259180
Export email: ahmad@wasem-kw.com
Website: www.pasia.cn
Export Website : www.wsem-kw.com