



## 500/750V Fire Survival Mineral Insulated Multicore LSZH Cables to EME-SP-14-028

### Applications

These fire survival cables are designed for installation in hazardous installations and radioactive environments.

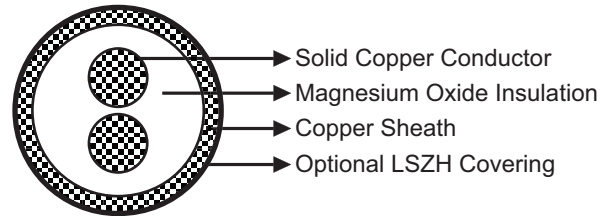
### Standards

- EME SP 14 028
- BS 6387 CWZ
- BS 5839-1 Standard
- BS 5839-1 Enhanced
- BS 7346-6
- BS EN 60702



### Construction

- Conductors: Solid plain copper conductors.
- Insulation: Magnesium Oxide.
- Outer sheath: Plain copper sheath with optional LSZH covering.



### Electrical Characteristics at 20°C

#### Light Duty 0.5KV Grade

Nominal Conductor Diameter	mm	1.13	1.39	1.77	2.25
Nominal Conductor Cross Section	mm <sup>2</sup>	1.0	1.5	2.5	4.0
Maximum DC Conductor Resistance	Ω/km	18.1	12.1	7.41	4.61
Voltage Rating	KV	0.5			

#### Heavy Duty 0.75KV Grade

Nominal Conductor Diameter	mm	1.39	1.77	2.25	2.75	3.57	4.5	5.66	6.66	7.75	
Nominal Conductor Cross Section	mm <sup>2</sup>	1.5	2.5	4.0	6.0	10.0	16.0	25.0	35.0	50.0	
Maximum DC Conductor Resistance	Ω/km	12.1	7.41	4.61	3.08	1.83	1.15	0.727	0.524	0.387	
Voltage Rating	KV	0.75									

Nominal Conductor Diameter	mm	9.32	10.98	12.33	13.7	15.18	17.33	19.37	22.37	
Nominal Conductor Cross Section	mm <sup>2</sup>	70.0	95.0	120.0	150.0	185.0	240.0	300	400	
Maximum DC Conductor Resistance	Ω/km	0.268	0.193	0.153	0.124	0.101	0.0775	0.0601	0.047	
Voltage Rating	KV	0.75								

## ➤ Mechanical and Thermal Properties

- Minimum Bending Radius: 2×OD (D<7); 3×OD (7 ≤ D<12); 4×OD (12 ≤ D<15); 6×OD (D ≥ 15)
- Temperature Range: -80°C to +105°C

## ➤ Dimensions and Weight

### Light Duty 0.5KV Grade

Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No. × mm <sup>2</sup>	Cross Sectional Area of Copper Sheath mm <sup>2</sup>	Nominal Overall Diameter mm		Nominal Weight kg/km	
			With LSZH Covering	Without LSZH Covering	With LSZH Covering	Without LSZH Covering
RF14028L-MICC-300/500V-2G1	2×1.0	5.4	6.4	5.1	126	104
RF14028L-MICC-300/500V-2G1.5	2×1.5	6.3	7.0	5.7	154	136
RF14028L-MICC-300/500V-2G2.5	2×2.5	8.2	7.9	6.6	206	187
RF14028L-MICC-300/500V-2G4	2×4.0	10.7	9.2	7.7	322	248
RF14028L-MICC-300/500V-3G1	3×1.0	6.7	7.1	5.8	159	136
RF14028L-MICC-300/500V-3G1.5	3×1.5	7.8	7.7	6.4	194	176
RF14028L-MICC-300/500V-3G2.5	3×2.5	9.5	8.8	7.3	272	223
RF14028L-MICC-300/500V-4G1	4×1.0	7.7	7.6	6.3	187	162
RF14028L-MICC-300/500V-4G1.5	4×1.5	9.1	8.3	7.0	231	203
RF14028L-MICC-300/500V-4G2.5	4×2.5	11.3	9.6	8.1	336	277
RF14028L-MICC-300/500V-7G1	7×1.0	11.0	9.3	7.6	269	236
RF14028L-MICC-300/500V-7G1.5	7×1.5	11.8	9.9	8.4	351	295
RF14028L-MICC-300/500V-7G2.5	7×2.5	15.4	11.2	9.7	475	411

### Heavy Duty 0.75KV Grade

Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No. × mm <sup>2</sup>	Cross Sectional Area of Copper Sheath mm <sup>2</sup>	Nominal Overall Diameter mm		Nominal Weight kg/km	
			With LSZH Covering	Without LSZH Covering	With LSZH Covering	Without LSZH Covering
RF14028H-MICC-450/750V-1G6	1×6.0	8.0	7.7	6.2	213	173
RF14028H-MICC-450/750V-1G10	1×10.0	9.0	8.8	7.3	273	240
RF14028H-MICC-450/750V-1G16	1×16.0	12.0	9.8	8.3	361	326
RF14028H-MICC-450/750V-1G25	1×25.0	15.0	11.1	9.6	506	457
RF14028H-MICC-450/750V-1G35	1×35.0	18.0	12.2	10.7	650	585
RF14028H-MICC-450/750V-1G50	1×50.0	22.0	13.6	12.1	842	758
RF14028H-MICC-450/750V-1G70	1×70.0	27.0	15.2	13.7	1147	1016
RF14028H-MICC-450/750V-1G95	1×95.0	32.0	17.4	15.4	1520	1324
RF14028H-MICC-450/750V-1G120	1×120.0	37.0	18.8	16.8	1870	1612
RF14028H-MICC-450/750V-1G150	1×150.0	44.0	20.4	18.4	2230	1949
RF14028H-MICC-450/750V-1G185	1×185.0	54.0	23.2	20.4	2575	2370
RF14028H-MICC-450/750V-1G240	1×240.0	70.0	26.1	23.3	3312	3050
RF14028H-MICC-450/750V-1G300	1×300.0	79.0	28.8	26.0	3972	3791
RF14028H-MICC-450/750V-1G400	1×400.0	91.0	32.8	30.0	5211	5004
RF14028H-MICC-450/750V-2G1.5	2×1.5	11.0	9.4	7.9	259	237
RF14028H-MICC-450/750V-2G2.5	2×2.5	13.0	10.2	8.7	314	276
RF14028H-MICC-450/750V-2G4	2×4.0	16.0	11.3	9.8	398	355
RF14028H-MICC-450/750V-2G6	2×6.0	18.0	12.4	10.9	483	446
RF14028H-MICC-450/750V-2G10	2×10.0	24.0	14.2	12.7	697	619
RF14028H-MICC-450/750V-2G16	2×16.0	30.0	16.2	14.7	968	850
RF14028H-MICC-450/750V-2G25	2×25.0	38.0	19.1	17.1	1275	1178



Cable Code	No. of cores & Nominal Conductor Cross Sectional Area No. × mm <sup>2</sup>	Cross Sectional Area of Copper Sheath mm <sup>2</sup>	Nominal Overall Diameter mm		Nominal Weight kg/km	
			With LSZH Covering	Without LSZH Covering	With LSZH Covering	Without LSZH Covering
RF14028H-MICC-450/750V-3G1.5	3×1.5	12.0	9.8	8.3	290	254
RF14028H-MICC-450/750V-3G2.5	3×2.5	14.0	10.8	9.3	365	323
RF14028H-MICC-450/750V-3G4	3×4.0	17.0	11.9	10.4	461	415
RF14028H-MICC-450/750V-3G6	3×6.0	20.0	13.0	11.5	590	526
RF14028H-MICC-450/750V-3G10	3×10.0	27.0	15.1	13.6	853	754
RF14028H-MICC-450/750V-3G16	3×16.0	34.0	17.1	15.6	1080	1034
RF14028H-MICC-450/750V-3G25	3×25.0	42.0	20.2	18.2	1548	1444
RF14028H-MICC-450/750V-4G1.5	4×1.5	14.0	10.6	9.1	344	305
RF14028H-MICC-450/750V-4G2.5	4×2.5	16.0	11.6	10.1	430	384
RF14028H-MICC-450/750V-4G4	4×4.0	20.0	12.9	11.4	577	507
RF14028H-MICC-450/750V-4G6	4×6.0	24.0	14.2	12.7	718	644
RF14028H-MICC-450/750V-4G10	4×10.0	30.0	16.3	14.8	1050	911
RF14028H-MICC-450/750V-4G16	4×16.0	39.0	19.3	17.3	1390	1286
RF14028H-MICC-450/750V-4G25	4×25.0	49.0	22.3	20.1	1943	1805
RF14028H-MICC-450/750V-7G1.5	7×1.5	18.0	12.3	10.8	478	432
RF14028H-MICC-450/750V-7G2.5	7×2.5	22.0	13.6	12.1	614	559
RF14028H-MICC-450/750V-12G1.5	12×1.5	28.0	15.8	14.1	772	712
RF14028H-MICC-450/750V-12G2.5	12×2.5	34.0	17.9	15.6	970	911
RF14028H-MICC-450/750V-19G1.5	19×1.5	37.0	18.9	16.6	1086	992



Impact Resistant



Highly Flexible



Oil Resistant



Weather Resistant



Laid In Ducts



Insulation Integrity FE180  
EN 50200/IEC 60331  
/NF C32-070-2.3(CR1)

