

## ALLFLEX INDUSTRIAL MLG2 MULTI SERIES

**Ultra Performance Flexible Rubber Industrial / Marine Cable 0.6/1kV 90°C AS/NZS 5000.1, IEC 60092, H07RN-F**

### APPLICATIONS:

**Hazardous Areas** With correct explosion proof glands this cable can be installed in locations subject to explosion hazards rated 0.6/1kV (DIN VDE 0165).

**Waste Water Treatment Plants** Suitable for submersion in polluted liquids and aggressive environments up to 10 metres.

**Lighting & Entertainment** With its extra durable CPE sheath this cable is suitable for outdoor temporary power supplies and lighting leads.

**Marine** Flexible tinned copper & Lloyds approved cable for installation in pleasure craft, super yachts and other marine applications.

**Power** Used on construction sites due to its outstanding flexibility, durability and industrial performance.

**Pumping** Suitable for permanent submersion to 500 metres.

### PRODUCT FEATURES:

- ▶ Tinned fine stranded copper conductor
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Water and moisture resistant
- ▶ Good elongation at break
- ▶ Good Dielectric properties
- ▶ Resistant to environmental factors such as oxidation, ozone and sunlight
- ▶ Very good behaviour to variations of outdoor temperature
- ▶ Suitable for permanent submersion to 500 metres
- ▶ Good tensile strength, tearing strength and abrasion resistance
- ▶ Heat, oil and chemical resistant (*See Technical Section*)

See over for full product table ▶



### CONSTRUCTION:

**Conductor** Annealed tinned copper stranded high flexibility (Class 5).

**Insulation** EPR R90.

**Sheath** CPE Elastomer Rubber.

### CHARACTERISTICS:

**Operating Temperature Range** Fixed -40°C to 90°C / Flexing -25°C to 90°C.

**Maximum Conductor Temperature** 90°C.

**Rated Voltage** U<sub>o</sub>/U 0.6/1kV.

**Minimum Bending Radius** Fixed 4 x cable diameter / flexing 6 x cable diameter.

**Sheath Colour** Black.

**Standard Core Colours**

**MLCON-G2**

3 to 19 Core - Black Numbered + Green/Yellow

**ML-G2**

2 Core - Blue, Brown

3 Core - Blue, Brown, Green/Yellow

4 Core - Brown, Black, Grey, Green/Yellow

5 Core - Blue, Brown, Black, Grey, Green/Yellow

Multi Core - Black Numbered + Green/Yellow

**Relevant Standards** DIN VDE 0295, DIN VDE 0165, IEC 60092-360 IEC 60092-353, IEC 60092-359, IEC 60092-351, IEC 60079.14, AS/NZS 1125, AS/NZS 3808, **RoHS** Compliant.

**AS/NZS 5000.1** Electric cables for working voltage 0.6/1kV.

**IEC 60092-360** Electrical installations in ships - Part 360: Insulating and sheathing materials for shipboard and offshore units, power, control, instrumentation and telecommunication cables.


**IEC 60092-350** Electrical installations in ships - Part 350: General construction and test methods.

**IEC 60332-3-22** Test for vertical flame spread of vertically-mounted bunched wires or cables.

**H07RN-F** Harmonised type heavy duty rubber cable construction (1.5mm<sup>2</sup> and above).

**Certification Approvals** Lloyds Type Approval CEF/SA.

## ALLFLEX INDUSTRIAL MLG2 MULTI SERIES continued

Code	No. of Cores x Size	Approx. Stranding	Approx. Overall Diameter +/- 15%	Approx. Weight	Nominal Amps un-enclosed protected from sun @ 30°C fixed application	3 Phase Volt Drop @50Hz / MAX. Conductor Temp:
	(mm <sup>2</sup> )	No. of wires x mm	(mm)	(Kg/Km)	Touching 	90°C (Mv/Am)
<b>COMPLIES ONLY TO IEC 60092-350. CORE COLOURS: BLACK NUMBERED + GRN/YEL</b>						
MLCON03/1.0BKG2	3 x 1.0	32 x 0.20	8.5 – 11.0	143	18	46.800
MLCON04/1.0BKG2	4 x 1.0	32 x 0.20	9.5 – 12.0	166	16	46.800
MLCON05/1.0BKG2	5 x 1.0	32 x 0.20	10.0 – 13.5	214	14	46.800
MLCON07/1.0BKG2	7 x 1.0	32 x 0.20	11.5 – 14.5	252	12	46.800
MLCON12/1.0BKG2	12 x 1.0	32 x 0.20	16.0 – 20.0	401	12	46.800
MLCON19/1.0BKG2	19 x 1.0	32 x 0.20	18.5 – 23.5	591	12	46.800
<b>COMPLIES TO AS/NZS 5000.1, IEC 60092-350 &amp; H07RN-F TYPE</b>						
ML02/1.5BKG2	2 x 1.5	30/0.25	9.5 – 12.4	176	25	30.000
ML02/2.5BKG2	2 x 2.5	50/0.25	11.0 – 13.7	224	33	16.400
ML02/4.0BKG2	2 x 4.0	56/0.30	11.8 – 15.1	292	44	10.200
ML02/6.0BKG2	2 x 6.0	84/0.30	13.1 – 16.8	377	56	6.800
ML02/10.0BKG2	2 x 10.0	80/0.40	17.7 – 22.6	695	67	4.050
ML02/16.0BKG2	2 x 16.0	128/0.40	20.2 – 25.7	907	89	2.550
ML03/1.5BKG2	3 x 1.5	30/0.25	10.5 – 13.2	209	21	30.000
ML03/2.5BKG2	3 x 2.5	50/0.25	11.5 – 14.6	268	29	16.400
ML03/4.0BKG2	3 x 4.0	56/0.30	12.7 – 16.2	349	37	10.200
ML03/6.0BKG2	3 x 6.0	84/0.30	14.1 – 18.0	454	47	6.800
ML03/10.0BKG2	3 x 10.0	80/0.40	19.1 – 24.4	847	67	4.050
ML03/16.0BKG2	3 x 16.0	128/0.40	21.8 – 27.6	1117	89	2.550
ML04/1.5BKG2	4 x 1.5	30/0.25	11.5 – 14.5	256	21	30.000
ML04/2.5BKG2	4 x 2.5	50/0.25	13.5 – 16.0	330	29	16.400
ML04/4.0BKG2	4 x 4.0	56/0.30	14.0 – 17.9	433	37	10.200
ML04/6.0BKG2	4 x 6.0	84/0.30	15.7 – 20.0	574	47	6.800
ML04/10.0BKG2	4 x 10.0	80/0.40	20.9 – 26.5	1036	67	4.050
ML04/16.0BKG2	4 x 16.0	128/0.40	23.8 – 30.1	1376	89	2.550
ML04/25.0BKG2	4 x 25.0	200/0.40	28.9 – 36.6	2030	119	1.610
ML04/35.0BKG2	4 x 35.0	280/0.40	32.5 – 41.1	2618	149	1.170
ML04/50.0BKG2	4 x 50.0	400/0.40	37.7 – 47.5	3611	187	0.868
ML05/1.5BKG2	5 x 1.5	30/0.25	11.5 – 14.3	298	21	30.000
ML05/2.5BKG2	5 x 2.5	50/0.25	13.0 – 15.9	384	29	16.400
ML05/4.0BKG2	5 x 4.0	56/0.30	14.5 – 17.5	514	37	10.200
ML05/6.0BKG2	5 x 6.0	84/0.30	15.6 – 19.9	680	47	6.800
ML05/10.0BKG2	5 x 10.0	80/0.40	17.5 – 22.2	1214	67	4.050
ML05/16.0BKG2	5 x 16.0	128/0.40	22.9 – 29.1	1633	89	2.550
ML05/25.0BKG2	5 x 25.0	200/0.40	26.4 – 33.3	2401	119	1.610
ML05/35.0BKG2	5 x 35.0	280/0.40	32.0 – 40.4	3077	149	1.170
ML05/50.0BKG2	5 x 50.0	400/0.40	35.7 – 45.1	4293	187	0.868
ML07/1.5BKG2	7 x 1.5	30/0.25	14.7 – 18.7	358	15	30.000
ML07/2.5BKG2	7 x 2.5	50/0.25	24.5 – 28.0	920	20	16.400
ML12/1.5BKG2	12 x 1.5	30/0.25	17.1 – 21.8	474	15	30.000
ML12/2.5BKG2	12 x 2.5	50/0.25	27.5 – 31.3	1226	20	16.400
ML19/1.5BKG2	19 x 1.5	30/0.25	20.5 – 23.7	1304	15	30.000

Firstflex has taken every precaution to ensure accurate information in this catalogue, but accept no liability for any errors or omissions. Firstflex reserves the right to modify specifications at any time.