

## 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, 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 INDUSTRIALL MLG2 MULTI SERIES continued

Code	No. of Cores x Size  (mm <sup>2</sup> )	Approx. Stranding  No. of wires x mm	Approx. Overall Diameter +/- 10%  (mm)	Approx. Weight  (Kg/Km)	Nominal Amps un-enclosed protected from sun @ 30°C fixed application  Touching 	3 Phase Volt Drop @50Hz / MAX. Conductor Temp:  90°C (Mv/Am)
COMPLIES ONLY TO IEC 60092-350. CORE COLOURS: BLACK NUMBERED + GRN/YEL						
MLCON03/1.0BKG2	3 x 1.0	32 x 0.20	10.1	128	18	46.800
MLCON04/1.0BKG2	4 x 1.0	32 x 0.20	11.0	160	16	46.800
MLCON05/1.0BKG2	5 x 1.0	32 x 0.20	12.1	172	14	46.800
MLCON07/1.0BKG2	7 x 1.0	32 x 0.20	12.8	191	12	46.800
MLCON12/1.0BKG2	12 x 1.0	32 x 0.20	16.9	287	12	46.800
MLCON19/1.0BKG2	19 x 1.0	32 x 0.20	20.2	432	12	46.800
COMPLIES TO AS/NZS 5000.1, IEC 60092-350 & H07RN-F TYPE						
ML02/1.5BKG2	2 x 1.5	30/0.25	10.8	130	25	30.000
ML02/2.5BKG2	2 x 2.5	50/0.25	11.8	190	33	16.400
ML02/4.0BKG2	2 x 4.0	56/0.30	13.2	260	44	10.200
ML02/6.0BKG2	2 x 6.0	84/0.30	15.0	350	56	6.800
ML02/10.0BKG2	2 x 10.0	80/0.40	20.1	538	67	4.050
ML02/16.0BKG2	2 x 16.0	128/0.40	22.9	749	89	2.550
ML03/1.5BKG2	3 x 1.5	30/0.25	11.6	160	21	30.000
ML03/2.5BKG2	3 x 2.5	50/0.25	12.7	230	29	16.400
ML03/4.0BKG2	3 x 4.0	56/0.30	14.2	320	37	10.200
ML03/6.0BKG2	3 x 6.0	84/0.30	16.1	425	47	6.800
ML03/10.0BKG2	3 x 10.0	80/0.40	21.5	765	67	4.050
ML03/16.0BKG2	3 x 16.0	128/0.40	24.0	1060	89	2.550
ML04/1.5BKG2	4 x 1.5	30/0.25	12.8	200	21	30.000
ML04/2.5BKG2	4 x 2.5	50/0.25	13.9	290	29	16.400
ML04/4.0BKG2	4 x 4.0	56/0.30	15.6	400	37	10.200
ML04/6.0BKG2	4 x 6.0	84/0.30	17.9	540	47	6.800
ML04/10.0BKG2	4 x 10.0	80/0.40	23.0	930	67	4.050
ML04/16.0BKG2	4 x 16.0	128/0.40	26.0	1300	89	2.550
ML04/25.0BKG2	4 x 25.0	200/0.40	32.0	1950	119	1.610
ML04/35.0BKG2	4 x 35.0	280/0.40	35.0	2330	149	1.170
ML04/50.0BKG2	4 x 50.0	400/0.40	40.0	3200	187	0.868
ML05/1.5BKG2	5 x 1.5	30/0.25	14.0	240	21	30.000
ML05/2.5BKG2	5 x 2.5	50/0.25	15.3	350	29	16.400
ML05/4.0BKG2	5 x 4.0	56/0.30	17.3	500	37	10.200
ML05/6.0BKG2	5 x 6.0	84/0.30	19.8	670	47	6.800
ML05/10.0BKG2	5 x 10.0	80/0.40	25.8	1140	67	4.050
ML05/16.0BKG2	5 x 16.0	128/0.40	29.0	1610	89	2.550
ML05/25.0BKG2	5 x 25.0	200/0.40	35.0	2440	119	1.610
ML05/35.0BKG2	5 x 35.0	280/0.40	38.0	3310	149	1.170
ML05/50.0BKG2	5 x 50.0	400/0.40	47.0	4120	187	0.868
ML07/1.5BKG2	7 x 1.5	30/0.25	15.3	330	15	30.000
ML07/2.5BKG2	7 x 2.5	50/0.25	17.0	470	20	16.400
ML12/1.5BKG2	12 x 1.5	30/0.25	20.8	480	15	30.000
ML12/2.5BKG2	12 x 2.5	50/0.25	22.9	690	20	16.400
ML19/1.5BKG2	19 x 1.5	30/0.25	24.7	710	15	30.000

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