

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_o/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 (1.5mm² 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 ²)	No. of wires x mm	(mm)	(Kg/Km)	Touching 	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	9.8	128	18	46.800
MLCON04/1.0BKG2	4 x 1.0	32 x 0.20	10.8	160	16	46.800
MLCON05/1.0BKG2	5 x 1.0	32 x 0.20	11.8	172	14	46.800
MLCON07/1.0BKG2	7 x 1.0	32 x 0.20	13.0	191	12	46.800
MLCON12/1.0BKG2	12 x 1.0	32 x 0.20	18.0	287	12	46.800
MLCON19/1.0BKG2	19 x 1.0	32 x 0.20	21.0	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	11.0	130	25	30.000
ML02/2.5BKG2	2 x 2.5	50/0.25	12.4	190	33	16.400
ML02/4.0BKG2	2 x 4.0	56/0.30	13.5	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	20.2	538	67	4.050
ML02/16.0BKG2	2 x 16.0	128/0.40	23.0	749	89	2.550
ML03/1.5BKG2	3 x 1.5	30/0.25	11.9	160	21	30.000
ML03/2.5BKG2	3 x 2.5	50/0.25	13.1	230	29	16.400
ML03/4.0BKG2	3 x 4.0	56/0.30	14.5	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	21.8	765	67	4.050
ML03/16.0BKG2	3 x 16.0	128/0.40	24.7	1060	89	2.550
ML04/1.5BKG2	4 x 1.5	30/0.25	13.0	200	21	30.000
ML04/2.5BKG2	4 x 2.5	50/0.25	14.8	290	29	16.400
ML04/4.0BKG2	4 x 4.0	56/0.30	16.0	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	23.7	930	67	4.050
ML04/16.0BKG2	4 x 16.0	128/0.40	27.0	1300	89	2.550
ML04/25.0BKG2	4 x 25.0	200/0.40	32.8	1950	119	1.610
ML04/35.0BKG2	4 x 35.0	280/0.40	36.8	2330	149	1.170
ML04/50.0BKG2	4 x 50.0	400/0.40	42.6	3200	187	0.868
ML05/1.5BKG2	5 x 1.5	30/0.25	14.5	240	21	30.000
ML05/2.5BKG2	5 x 2.5	50/0.25	16.0	350	29	16.400
ML05/4.0BKG2	5 x 4.0	56/0.30	17.8	500	37	10.200
ML05/6.0BKG2	5 x 6.0	84/0.30	19.9	670	47	6.800
ML05/10.0BKG2	5 x 10.0	80/0.40	26.0	1140	67	4.050
ML05/16.0BKG2	5 x 16.0	128/0.40	29.9	1610	89	2.550
ML05/25.0BKG2	5 x 25.0	200/0.40	36.2	2440	119	1.610
ML05/35.0BKG2	5 x 35.0	280/0.40	40.4	3310	149	1.170
ML05/50.0BKG2	5 x 50.0	400/0.40	41.8	4120	187	0.868
ML07/1.5BKG2	7 x 1.5	30/0.25	16.7	330	15	30.000
ML07/2.5BKG2	7 x 2.5	50/0.25	17.5	470	20	16.400
ML12/1.5BKG2	12 x 1.5	30/0.25	19.5	480	15	30.000
ML12/2.5BKG2	12 x 2.5	50/0.25	24.5	690	20	16.400
ML19/1.5BKG2	19 x 1.5	30/0.25	22.1	710	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.