



HR SERIES

High Performance Flexible Rubber Cable 450/750V 60°C



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.

Power Used on construction sites due to its outstanding flexibility, durability and cable memory.

Pumping Suitable for permanent submersion to 200 metres.

Materials and Handling Systems Suitable for cable spring reelers and large energy chains.

PRODUCT FEATURES:

- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Water and moisture resistant
- ▶ Good elongation at break
- ▶ Resistant to environmental factors such as oxidation, ozone and sunlight
- ▶ Suitable for permanent submersion to 200 metres
- ▶ Good tensile strength, tearing strength and abrasion resistance
- ▶ Heat, oil and chemical resistant (*See Technical Section*)

CONSTRUCTION:

Conductor Annealed plain copper stranded high flexibility (Class 5).

Insulation EPR.

Sheath CPE Elastomer Rubber.

CHARACTERISTICS:

Operating Temperature Range Fixed -40°C to 60°C /

Flexing -30°C to 60°C.

Maximum Conductor Temperature 60°C.

Rated Voltage U_o/U 450/750V (Fixed laying permitted up to 1000V).

Minimum Bending Radius Fixed 5 x cable diameter.

Sheath Colour Black.

Standard Core Colours

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 H07RN-F, HD361 S2/S3, VDE 0295, VDE 0282, IEC 60811-2-1, VDE 0293-308, EN 60811-2-1, IEC 60332-1,

CE Directive 2006/95/EC, and **RoHS** Compliant.

[See over for full product table ▶](#)

HR SERIES continued

Code	No. of Cores x Size	Approx. Stranding	Approx. Overall Diameter	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	+/- 10% (mm)	(Kg/Km)	Touching 	90°C (Mv/Am)
HR3G1.5	3 x 1.5	30/0.25	10.5	130	15	30.000
HR3G2.5	3 x 2.5	50/0.25	12.5	191	21	16.400
HR3G4.0	3 x 4.0	56/0.31	14.5	298	30	10.200
HR3G6.0	3 x 6.0	84/0.30	16.1	407	37	6.800
HR3G25	3 x 25.0	200/0.41	27.5	1157	92	1.610
HR4G1.5	4 x 1.5	30/0.25	11.5	162	16	30.000
HR4G2.5	4 x 2.5	50/0.25	13.8	238	22	16.400
HR4G4.0	4 x 4.0	56/0.31	15.5	331	30	10.200
HR4G6.0	4 x 6.0	84/0.30	17.5	472	37	6.800
HR4G10	4 x 10.0	30/0.40	23.7	718	52	4.050
HR4G16	4 x 16.0	1280/0.40	26.9	1068	69	2.550
HR4G25	4 x 25.0	200/0.41	33.4	1400	92	1.610
HR4G35	4 x 35.0	280/0.41	36.8	1870	114	1.170
HR4G50	4 x 50.0	400/0.40	42.6	3200	143	0.868
HR4G70	4 x 70.0	356/0.50	48.3	4200	178	0.609
HR4G95	4 x 95.0	485/0.50	54.7	5490	210	0.450
HR4G120	4 x 120.0	614/0.50	59.5	7098	246	0.366
HR5G1.5	5 x 1.5	30/0.25	12.5	195	16	30.000
HR5G2.5	5 x 2.5	50/0.25	15.0	291	22	16.400
HR5G4.0	5 x 4.0	56/0.31	17.7	411	30	10.200
HR5G6.0	5 x 6.0	84/0.31	19.8	581	38	6.800
HR5G10	5 x 10.0	80/0.41	26.0	896	54	4.050
HR5G16	5 x 16.0	128/0.41	30.0	1810	71	2.550
HR5G25	5 x 25.0	200/0.40	36	2440	94	1.610
HR5G35	5 x 35.0	280/0.40	41	3310	114	1.170
HR5G50	5 x 50.0	400/0.40	45.0	4000	143	0.868
HR5G70	5 x 70.0	356/0.50	52.5	5256	178	0.609
HR5G95	5 x 95.0	485/0.50	56.6	6780	210	0.450
HR7G1.5	7 x 1.5	30/0.25	16.0	330	12	30.000
HR7G2.5	7 x 2.5	50/0.25	18.5	470	16	16.400
HR12G1.5	12 x 1.5	30/0.25	19.0	480	10	30.000
HR12G2.5	12 x 2.5	50/0.25	22.5	690	14	16.400
HR19G1.5	19 x 1.5	30/0.25	23.5	788	7	30.000
HR19G2.5	19 x 2.5	50/0.25	27.7	1068	10	16.400
HR24G1.5	24 x 1.5	30/0.25	27.5	968	7	30.000
HR24G2.5	24 x 2.5	50/0.25	32.6	1400	7.5	16.400

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.