Application

The H07RN-F heavy-duty industrial flexible rubber cable is designed for a wide range of applications, particularly in environments with moving equipment, electric appliances, and building sites. It is suitable for motors in lifting appliances, machine tools, and various industrial devices. This cable is recommended for use in dry, damp, or wet workshops, both indoors and outdoors, including potentially explosive atmospheres (ATEX) as per country regulations, with additional safety recommendations. Moreover, it is useful in agricultural workshops and refrigerating installations.

Performance

Voltage Rating: 450/750 V.
Conductor operating temperature:-30°C to +60°C (85°C max)
Max. conductor temperature in service: 85 °C
Short-circuit max. conductor temperature: 200 °C
Minimum bending radius:
Up to 25mm2: 6 x overall diameter
Above 25mm2:8 x overall diameter
Cable flexibility: Flexible
Oil resistance: Yes

Construction

Conductor material: Bare annealed copper stranded
Insulation: Cross-linked synthetic elastomer type EI 4
Outer sheath: Cross-linked synthetic elastomer type EM 2
Sheath colour: Black
Core Identification:
1 core: Black
2 cores: Blue Brown
3 cores: Green/Yellow Blue Brown
4 cores: Green/Yellow Brown Black Grey
5 cores: Green/Yellow Blue Brown Black Grey
6 cores and above: Black with White numbers Green/Yellow

Specification

DIN VDE 0282-4 (Cables of Rated Voltages up to and Including 450/750 V and Having Thermoplastic Insulation - Part 4: Rubber-insulated Cords and Flexible Cables)
EN 60228: Conductors of insulated cables
Flame Retardant according to IEC/EN 60332-1-2
Water Resistant according to AD7

Eastful Cable Lab

We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.
CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TUV Rhineland and CCS.

National Green Factory

Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China.
We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

Technical Parameters

No. of Cores and Nominal Cross Section	Copper Figure	Cond. Construction (Approx. Value)	Overall Dia. Approx.	Overall Dia. Max. Value Approx.	Weight Approx.
mm^2	kg/km	mm	mm	mm	kg/km
1 X 1.5	14.40	30 x 0.26	5.7	7.1	50
1 X 2.5	24.00	50 x 0.26	6.3	7.9	66
1 X 4	38.40	56 x 0.31	7.2	9	94
1 X 6	57.60	84 x 0.31	7.9	9.8	109
1 X 10	96.00	80 x 0.41	9.5	11.9	182
1 X 16	153.60	128 x 0.41	10.8	13.4	256
1 X 25	240.00	200 x 0.41	12.7	15.8	369
1 X 35	336.00	280 x 0.41	14.3	17.9	482
1 X 50	480.00	400 x 0.41	16.5	20.6	662
1 X 70	672.00	356 x 0.51	18.6	23.3	895
1 X 95	912.00	485 x 0.51	20.8	26	1160
1 X 120	1152.00	614 x 0.51	22.8	28.6	1430
1 X 150	1440.00	765 x 0.51	25.2	31.4	1740
1 X 185	1776.00	944 x 0.51	27.6	34.4	2160
1 X 240	2304.00	1225 x 0.51	30.6	38.3	2730
1 X 300	2880.00	1530 x 0.50	33.5	41.9	3480
2 X 1	19.20	32 x 0.20	7.7	10	99
2 X 1.5	28.80	30 x 0.26	8.5	11	111
2 X 2.5	48.00	50 x 0.26	10.2	13.1	161
2 X 4	76.80	56 x 0.31	11.8	15.1	238
2 X 6	115.20	84 x 0.31	13.1	16.8	279
3 G 1	28.80	32 x 0.21	8.3	10.7	117
3 G 1.5	43.20	30 x 0.26	9.2	11.9	134
3 G 2.5	72.00	50 x 0.26	10.9	14	195
3 G 4	115.20	56 x 0.31	12.7	16.2	290
3 G 6	172.80	84 x 0.31	14.1	18	346
3 G 10	288.00	80 x 0.41	19.1	24.2	663
3 G 35	1008.00	280 x 0.41	29.3	37.1	1760
3 G 50	1440.00	400 x 0.41	34.1	42.9	2390

No. of Cores and Nominal Cross Section	Copper Figure	Cond. Construction (Approx. Value)	Overall Dia. Approx.	Overall Dia. Max. Value Approx.	Weight Approx.
mm^2	kg/km	mm	mm	mm	kg/km
4 G 1.5	57.60	30 x 0.26	10.2	13.1	165
4 G 2.5	96.00	50 x 0.26	12.5	15.5	245
4 G 4	153.60	56 x 0.31	14	18	357
4 G 6	230.40	84 x 0.31	15.7	20	443
4 G 10	384.00	80 x 0.41	20.8	26.5	818
4 G 16	614.40	128 x 0.41	23.8	30.1	1150
4 G 25	960.00	200 x 0.41	28.9	36.6	1700
4 G 35	1344.00	280 x 0.41	32.5	41.1	2180
4 G 50	1920.00	400 x 0.41	37.7	47.5	3030
4 G 70	2688.00	356 x 0.51	42.7	54	3990
4 G 95	3648.00	485 x 0.51	48.4	61	5360
4 G 120	4608.00	614 x 0.51	53	66	6500
4 G 150	5760.00	765 x 0.51	58	73	7990
4 G 185	7104.00	944 x 0.51	64	80	9910
4 G 240	9216.00	1225 x 0.51	72	91	12800
5 G 1.5	72.00	30 x 0.26	11.2	14.4	238
5 G 2.5	120.00	50 x 0.26	13.3	17	297
5 G 4	192.00	56 x 0.31	15.6	19.9	453
5 G 6	288.00	84 x 0.31	17.5	22.2	557
5 G 10	480.00	80 x 0.41	22.9	29.1	1001
5 G 16	768.00	128 x 0.41	26.4	33.3	1430
5 G 25	1200.00	200 x 0.41	32	40.4	2096
5 G 35	1680.00	280 x 0.41	44	50	3008
5 G 50	2400.00	400 x 0.41	51	58	4390
5 G 70	3360.00	356 x 0.51	60	67	5296
5 G 95	4560.00	485 x 0.51	61	71	6250
5 G 120	5760.00	614 x 0.51	62	73	8260
7 G 1.5	100.80	30 x 0.26	14.7	17	342
12 G 1.5	172.80	30 x 0.26	18.6	22.2	510
19 G 1.5	273.60	30 x 0.26	23	29	630
24 G 1.5	345.60	30 x 0.26	24.3	30.7	1000
27 G 1.5	388.80	30 x 0.26	23.6	32	1077
7 G 2.5	168.00	50 x 0.26	16.9	19.2	485
12 G 2.5	288.00	50 x 0.26	21.1	24.6	799
19 G 2.5	456.00	50 x 0.26	24.5	28	1100
24 G 2.5	576.00	50 x 0.26	27.3	32.5	1250
7 G 4	268.80	56 x 0.31	19.6	21.5	703