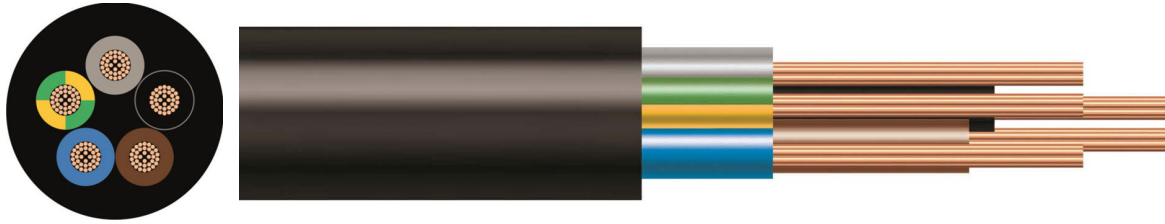


H07RN-F FLEXIBLE RUBBER CABLE



The H07RN-F heavy-duty rubber flexible trailing cable is highly versatile, built to withstand harsh conditions in various applications. Its exceptional flexibility and durability make it suitable for handling equipment, mobile power supplies, worksites, stage and audiovisual equipment, port areas, and dams. With resistance to chemical, mechanical, and thermal stresses, as well as harsh weather, oil, and mechanical stress, it is ideal for powering electrical appliances and building sites, even in refrigerated environments and severe industrial conditions.

CONDUCTOR	Plain Copper
STRANDING	Class 5
INSULATION	EPR
OUTERSHEATH	PCP
OUTERSHEATH COLOUR	Black
RATED VOLTAGE	450/750v
CORE IDENTIFICATION	single core: black 2 core: Blue & brown 3 core: Blue, brown & green/yellow 4 core: Black, brown, grey & green/yellow 5 core: Black, blue, brown, grey & green/yellow 7 cores and above: Black Numbered + 1 Green/Yellow
MINIMUM BENDING RADIUS	6 x overall diameter for cables not exceeding 25mm O/D / 8 x overall diameter for cables exceeding 25mm O/D
OPERATING TEMPERATURE	Maximum 60°C / Minimum bending -30°C
STANDARDS	BS EN 50525-2-21 Water resistant to AD8

SPECIFICATION DATA

BATT Part No	No of cores	Nominal cross sectional area of conductor (mm ²)	Nominal thickness of insulation (mm)	Approx overall diameter (mm)	Weight (kg/km)
22099	1	16	1.2	11.35	258
22050	1	25	1.4	13.3	375
22102	1	35	1.4	14.6	485
22027	1	50	1.6	17.2	669
22029	1	70	1.6	19.35	892
22067	1	95	1.8	22.2	1160
22031	1	120	1.8	24.3	1436
22082	1	150	2	25.9	1748
22083	1	185	2.2	29.7	2142
22084	1	240	2.4	31.5	2698
22085	1	300	2.6	36.5	3348
22462	1	400	2.8	40.4	4293
22509	1	500	3	42.6	5262
22388	1	630	3	47.2	6790
22010	2	1	0.8	8.1	94
22409	2	1.5	0.8	9	120
22009	2	2.5	0.9	10.7	173
22151	2	4	1	12.3	239
22260	2	6	1	13.8	313
22278	2	16	1.2	21.7	830
22048	3	1	0.8	8.74	117
22056	3	1.5	0.8	9.68	147
22028	3	2.5	0.9	11.48	123
22008	3	4	1	13.2	297
22208	3	6	1	14.78	390
22015	3	10	1.2	19.9	705
22214	3	16	1.2	23.31	1031
22081	3	25	1.4	27.7	1512
22068	3	35	1.4	30.2	1907
22078	3	50	1.6	35.8	2651
22080	3	70	1.6	40.1	3484
22296	3	95	1.8	46.4	4594
22014	3	120	1.8	53.9	6700
22300	3	150	2.0	59.9	8000
22294	4	1	0.8	9.63	142
22123	4	1.5	0.8	10.63	180
22319	4	2.5	0.9	12.6	260
22127	4	4	1	14.6	336
22131	4	6	1	16.4	449
22137	4	10	1.2	21.8	833
22400	4	16	1.2	25.4	1138
22344	4	25	1.4	30.7	1714
22304	4	35	1.4	33.4	2204
22347	4	50	1.6	39.6	3029
22402	4	70	1.6	44.9	4121
22326	4	95	1.8	51.9	5361

22073	4	120	1.8	55.3	6546
22301	4	150	2.0	60.8	8095
22309	4	185	2.2	65.7	9652
22404	4	240	2.4	75.7	12614
22331	5	1.5	0.8	11.8	206
22341	5	2.5	0.9	14	297
22145	5	4	1	16.2	422
22308	5	6	1	18.2	567
22389	5	10	1.2	24	1010
22403	5	16	1.2	28.2	1400
22171	5	25	1.4	33.9	2096
22377	5	35	1.4	37.2	2700
22399	5	50	1.6	44	3730
22416	5	70	1.6	48	5033
22041	5	95	1.6	53.2	6271
22378	7	1.5	0.8	15.13	315
22037	7	2.5	0.9	17.6	445
22240	7	4	1.0	21.6	618
22057	12	1.5	0.8	18.2	493
22013	12	2.5	0.9	21.4	702
22251	12	4	1.0	26.2	1180
22211	27	1.5	0.8	27.5	1090

RATING TABLES

TABLE 4F1A – 60 °C thermosetting insulated flexible cables with sheath, non-armoured (COPPER CONDUCTORS)

COPPER CONDUCTORS

CURRENT-CARRYING CAPACITY (amperes): Ambient temperature: 30 °C
Conductor operating temperature: 60 °C

Conductor cross-sectional area	Single-phase AC or DC	Three-phase AC	Single-phase AC or DC
	1 two-core cable, with or without protective conductor	1 three-core, four-core or five-core cable	2 single-core cables, touching
1	2	3	4
(mm ²)	(A)	(A)	(A)
4	30	26	-
6	39	34	-
10	51	47	-
16	73	63	-
25	97	83	-
35	-	102	140
50	-	124	175
70	-	158	216
95	-	192	258
120	-	222	302
150	-	255	347
185	-	291	394
240	-	343	471
300	-	394	541
400	-	-	644
500	-	-	738
630	-	-	861

NOTES:

1. The current ratings tabulated are for cables in free air but may also be used for cables resting on a surface. If the cable is to be wound on a drum on load the ratings should be reduced in accordance with NOTE 2 below and for cables which may be covered, NOTE 3 below.

2. Flexible cables wound on reeling drums

The current ratings of cables used on reeling drums are to be reduced by the following factors:

a) Radial type drum	b) Ventilated cylindrical type drum
ventilated: 85 %	1 layer of cable: 85 %
unventilated: 75 %	2 layers of cable: 65 %
	3 layers of cable: 45 %
	4 layers of cable: 35 %

A radial type drum is one where spiral layers of cable are accommodated between closely spaced flanges; if fitted with solid flanges the ratings given above should be reduced and the drum is described as non-ventilated. If the flanges have suitable apertures the drum is described as ventilated.

A ventilated cylindrical cable drum is one where layers of cable are accommodated between widely spaced flanges and the drum and end flanges have suitable ventilating apertures.

3. Where cable may be covered over or coiled up whilst on load, or the air movement over the cable restricted, the current rating should be reduced.

It is not possible to specify the amount of reduction but the table of rating factors for reeling drums can be used as a guide.

TABLE 4F1B

VOLTAGE DROP (per ampere per metre):

Conductor operating temperature: 60 °C

Conductor cross-sectional area 1	Two-core cable, DC 2	Two-core cable, single-phase AC 3			1 three-core, four-core or five-core cable, three-phase AC 4			2 single-core cables, touching				
								DC 5	Single-phase AC* 6			
(mm ²)	(mV/A/m)	(mV/A/m)			(mV/A/m)			(mV/A/m)	(mV/A/m)			
		r	x	z	r	x	z		r	x	z	
4	12							-				
6	7.8							-				
10	4.6							-				
16	2.9							-				
25	1.80	1.80	0.175	1.85	1.55	0.150	1.55	-	-	-	-	
35	-	-	-	-	1.10	0.150	1.15	1.31	1.31	0.21	1.32	
50	-	-	-	-	0.83	0.145	0.84	0.91	0.91	0.21	0.93	
70	-	-	-	-	0.57	0.140	0.58	0.64	0.64	0.20	0.67	
95	-	-	-	-	0.42	0.135	0.44	0.49	0.49	0.195	0.53	
120	-	-	-	-	0.33	0.135	0.36	0.38	0.38	0.190	0.43	
150	-	-	-	-	0.27	0.130	0.30	0.31	0.31	0.190	0.36	
185	-	-	-	-	0.22	0.130	0.26	0.25	0.25	0.190	0.32	
240	-	-	-	-	0.170	0.130	0.21	0.190	0.195	0.185	0.27	
300	-	-	-	-	0.135	0.125	0.185	0.150	0.155	0.180	0.24	
400	-	-	-	-	-	-	-	0.115	0.120	0.175	0.21	
500	-	-	-	-	-	-	-	0.090	0.099	0.170	0.20	
630	-	-	-	-	-	-	-	0.068	0.079	0.170	0.185	

NOTE: * A larger voltage drop will result if the cables are spaced.

The information in this datasheet is for guidance only and subject to change without liability. Images provided are representations; actual cable dimensions may vary due to manufacturing tolerances.

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