

# TYPE H07RN-F

450/750V

Flexible rubber insulated and sheathed cables

LittleFlex®



## Specifications & Standards

HD 22.4 S3 , BS 7919  
DIN VDE 0282 part 4

## CONSTRUCTION

Conductors:	Annealed flexible stranded bare class 5 to HD 383 ,DIN VDE 0295
Insulation:	Ethylene-propylene rubber (EPR)
Circuit identification:	Colour coding of power conductors comply to HD 308 , DIN VDE 0293- 308
Twin:	Blue and brown
3-core:	Green-yellow , blue , brown
4-core:	Green-yellow , brown, black , grey
5-core:	Green-yellow , blue, brown black , grey
Above 5-core:	Green-yellow ,other cores black with white numbering
Internal jacket :	A synthetic thermosetting compound type EM3 to HD 22.1 S4 (above 2,3,4,5 x6 mm2 and 1x 50 mm2)
Outer jacket:	A synthetic thermosetting compound type EM2 to HD 22.1 S4
Colour of outer jacket:	Black or colours can be provided

## FEATURES

- Excellent flexibility
- water resistant and flame retardant
- Rated and flexible at -25°C
- Ozone, sunlight, oil, resistant
- Ink jet printed for easy identification

## APPLICATION

- heavy-duty flexible cables for medium mechanical stress in dry and wet , suitable for large boiling installations , heating plates, Inspections lamps , electrical tools such as drills circular saws, Domestic electric tools, transportable motors etc.
- other industrial applications

## Standard length cable packing:

500m, 1000m drums. 100m coils.  
Other forms of packing and delivery are available on request.



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No. and cross-sectional area of conductor (n x mm <sup>2</sup> )	Max. current rating in free air at 30°C (A)	Approx. overall diameter (mm)	Approx. weight of cable (kg/km)	Max. conductor resistance at 20°C (Ω/km)
1 x 1.5	23			
1 x 2.5	32			
1 x 4	43			
1 x 6	56			
1 x 10	77			
1 x 16	102	11.4	254	1.24
1 x 25	136	13.3	363	0.795
1 x 35	168	14.7	469	0.565
1 x 50	203	16.9	644	0.393
1 x 70	254	18.8	821	0.277
1 x 95	315	21.3	1091	0.210
1 x 120	363	23.4	1390	0.164
1 x 150	416	26.1	1740	0.132
1 x 185	475	28.6	2098	0.108
1 x 240	559	31.6	2736	0.0817
1 x 300	637	35.1	3326	0.0654
1 x 400	746	40.1	4461	0.0495
1 x 500	854	49.5	5614	0.0495
1 x 630	1045	53.4	7050	0.0304
2 x 1.5	23	10.2	122	13.7
2 x 2.5	32	11.3	163	8.21
2 x 4	43	13.0	238	5.09
2 x 6	56	14.2	314	3.39
2 x 10	77	16.6	457	1.95
2 x 16	102	20.2	683	1.24
2 x 25	136	24.0	988	0.795
2 x 35	168	26.8	1276	0.565
2 x 50	203	31.2	1761	0.393
2 x 70	254	34.8	2235	0.277
2 x 95	315	40.0	2997	0.210
2 x 120	363	44.2	3770	0.164
2 x 150	416	49.7	4750	0.132
2 x 185	475	54.6	5781	0.108
3 x 1.5	23	10.7	141	13.7
3 x 2.5	32	12.2	192	8.21
3 x 4	43	13.7	276	5.09
3 x 6	56	15.2	384	3.39
3 x 10	77	17.7	566	1.95
3 x 16	102	21.4	838	1.24
3 x 25	136	25.6	1224	0.795
3 x 35	168	28.6	1603	0.565
3 x 50	203	33.5	2237	0.393
3 x 70	254	37.2	2830	0.277
3 x 95	315	42.9	3823	0.210
3 x 120	363	47.4	4831	0.164
3 x 150	416	53.2	6120	0.132
3 x 185	475	58.1	7350	0.108

Note: Permissible current -ratings capacity ( amperes ) are dependant on de-rating / correcting factors:  
 Ambient temperature, conductor operating temperature, installations methods & conditions open air / on surface / cable trays ladders / enclosed conduit, perforated troughs, cable trays, numbers of single core /multi cores cables, grouping factors in contact or space apart, number of reeled layers on drums.

Please refer to Singapore Standards CP 5: 1998, code of practice for electrical installations, pages 233 -242.



## TYPE H07RN-F 450/750V

No. and cross-sectional area of conductor (n x mm <sup>2</sup> )	Max. current rating in free air at 30°C (A)	Approx. overall diameter (mm)	Approx. weight of cable (kg/km)	Max. conductor resistance at 20°C (Ω/km)
4 x 1.5	23	12.2	185	13.7
4 x 2.5	32	13.5	237	8.21
4 x 4	43	15.1	350	5.09
4 x 6	56	16.7	476	3.39
4 x 10	77	19.5	707	1.95
4 x 16	102	23.7	1060	1.24
4 x 25	136	28.5	1562	0.795
4 x 35	168	31.7	2031	0.565
4 x 50	203	37.2	2836	0.393
4 x 70	254	41.4	3611	0.277
4 x 95	315	47.7	4875	0.210
4 x 120	363	52.9	6191	0.164
4 x 150	416	59.1	7807	0.132
4 x 185	475	64.4	9350	0.108
5 x 1.5	23	13.5	254	13.7
5 x 2.5	32	15.0	337	8.21
5 x 4	43	16.6	445	5.09
5 x 6	56	18.3	578	3.39
5 x 10	77	21.4	867	1.95
5 x 16	102	26.1	1291	1.24
5 x 25	136	31.5	1918	0.795
5 x 35	168	35.2	2499	0.565
5 x 50	203	41.4	3507	0.393
5 x 70	254	46.0	4459	0.277
5 x 95	315	53.0	6064	0.210
5 x 120	363	58.1	7555	0.164
6 x 1.5	23	13.9	288	13.7
6 x 2.5	32	16.6	412	8.21
6 x 4	43	18.8	567	5.09
7 x 1.0	18	13.6	265	20
7 x 1.5	23	14.8	327	13.7
7 x 2.5	32	17.5	471	8.21
7 x 4	43	20.1	650	5.09
7 x 6	56	22.4	855	3.39
7 x 10	77	27.7	1349	1.95
8 x 1.5	23	16.2	395	13.7
8 x 2.5	32	19.1	569	8.21
8 x 4	43	22.2	795	5.09
9 x 1.5	23	17.3	403	13.7
9 x 2.5	32	20.6	587	8.21
10 x 1.0	18	15.9	342	20
10 x 1.5	23	17.5	432	13.7
10 x 2.5	32	20.6	620	8.21
10 x 4	43	23.9	866	5.09

Note: Permissible current -ratings capacity ( amperes ) are dependant on de-rating / correcting factors:  
Ambient temperature, conductor operating temperature, installations methods & conditions open air / on surface / cable trays ladders / enclosed conduit, perforated troughs, cable trays, numbers of single core /multi cores cables, grouping factors in contact or space apart, number of reeled layers on drums.

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No. and cross-sectional area of conductor (n x mm <sup>2</sup> )	Max. current rating in free air at 30°C (A)	Approx. overall diameter (mm)	Approx. weight of cable (kg/km)	Max. conductor resistance at 20°C (Ω/km)
12 x 1	18	16.5	383	20
12 x 1.5	23	18.2	484	13.7
12 x 2.5	32	22.1	708	8.21
12 x 4	43	25.0	988	5.09
14 x 1.5	23	19.0	535	13.7
14 x 2.5	32	22.6	785	8.21
15 x 2.5	32	23.8	865	8.21
16 x 1	18	18.2	475	20
16 x 1.5	23	20.0	603	13.7
16 x 2.5	32	23.8	886	8.21
18 x 1	18	19.2	531	20
18 x 1.5	23	21.3	648	13.7
18 x 2.5	32	25.3	1001	8.21
18 x 4	43	29.5	1417	5.09
19 x 1.5	23	22.0	722	13.7
19 x 2.5	32	26.2	1062	8.21
24 x 1	18	22.4	692	20
24 x 1.5	23	24.9	888	13.7
24 x 2.5	32	29.8	1313	8.21
27 x 1.5	23	25.4	954	13.7
27 x 2.5	32	30.4	1415	8.21
36 x 1.5	23	28.5	1233	13.7
36 x 2.5	32	34.3	1845	8.21
37 x 2.5	32	34.8	1860	8.21

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