

## TECHNICAL DATA SHEET

### H07RN-F

**Manufacturing Standard**

**BS EN 50525-2-21**

**Flame Propagation**

**BS EN/IEC 60332-1-2**

**Applications**

- Mobile power supplies
- Handling equipment
- Submersible pumps
- Stage and Audio Visual

**Key Features**

Oil Resistant  
UV, Sunlight and Ozone Resistant  
Suitable for both indoor and outdoor use



**Construction**

- Class 5 Annealed Flexible Copper Conductor to BS EN60228
- Ethylene Propylene Rubber (EPR) Type EI7
- Synthetic Thermosetting Compound EM7

**Core Identification**

- One Core                      Black
- Two Core                      Blue, Brown
- Three Core                    Green/Yellow, Blue, Brown
- Four Core                      Green/Yellow, Brown, Black, Grey
- Five Core                      Green/Yellow, Blue, Brown, Black, Grey

**Sheath Colour**              Black

**Voltage Rating**            450/750V

**Bend Radius**                4 x O/D for Fixed Applications. 6 x O/D for flexing applications

**Operating Temp**            -25°C to +90°C (For fixed installation lowest temperature is -40°C)

## H07RN-F1

### TECHNICAL DATA

Nominal Conductor Area	Nominal Insulation Thickness	Nominal Sheath Thickness	Approximate Cable O/D	Approximate Cable Weight	Current Rating **	Voltage Drop
mm <sup>2</sup>	mm	mm	mm	Kg/Km	Amp	mV/A/m
1 x 1.50	0.80	1.40	6.10	51	27	29.80
1 x 2.50	0.90	1.40	6.80	67	34	17.90
1 x 4	1.00	1.50	7.80	93	47	11.10
1 x 6	1.00	1.60	8.50	120	59	7.40
1 x 10	1.20	1.80	10.30	184	83	4.30
1 x 16	1.20	1.90	11.50	255	108	2.70
1 x 25	1.40	2.00	13.40	372	135	1.70
1 x 35	1.40	2.20	15.00	482	167	1.20
1 x 50	1.60	2.40	17.20	656	204	0.90
1 x 70	1.60	2.60	19.20	887	261	0.60
1 x 95	1.80	2.80	21.90	1178	316	0.50
1 x 120	1.80	3.00	23.80	1441	367	0.40
1 x 150	2.00	3.20	26.30	1758	423	0.30
1 x 185	2.20	3.40	28.70	2171	483	0.20
1 x 240	2.40	3.50	32.00	2800	570	0.20
1 x 300	2.60	3.60	34.80	3415	658	0.10
1 x 400	2.80	3.80	38.90	4303	792	0.10
1 x 500	3.00	4.00	43.20	5453	904	0.10
1 x 630	3.00	4.10	47.90	6946	1033	0.10



Electrical Appliances



Moving Equipment



Mobile Power Supplies



Cold Environment



Oil Resistant

## H07RN-F2

### TECHNICAL DATA

Nominal Conductor Area	Nominal Insulation Thickness	Nominal Sheath Thickness	Approximate Cable O/D	Approximate Cable Weight	Current Rating **	Voltage Drop
mm <sup>2</sup>	mm	mm	mm	Kg/Km	Amp	mV/A/m
2 x 1.0	0.80	1.30	8.60	96	20	50.50
2 x 1.5	0.80	1.50	9.50	119	29	34.40
2 x 2.5	0.90	1.70	11.20	172	39	20.70
2 x 4.0	1.00	1.80	13.00	240	52	12.80
2 x 6.0	1.00	2.00	14.60	316	66	8.50
2 x 10	1.20	3.10	19.40	552	90	4.90
2 x 16	1.20	3.30	21.90	752	115	3.10
2 x 25	1.40	3.60	25.90	1093	149	2.00
2 x 35	1.40	3.80	28.60	1376	185	1.40
2 x 50	1.60	4.20	33.00	1870	225	1.00
2 x 70	1.60	4.60	37.20	2497	289	0.70
2 x 95	1.80	5.00	42.40	3298	352	0.50



Electrical Appliances



Moving Equipment



Mobile Power Supplies



Cold Environment



Oil Resistant

## H07RN-F3

### TECHNICAL DATA

Nominal Conductor Area	Nominal Insulation Thickness	Nominal Sheath Thickness	Approximate Cable O/D	Approximate Cable Weight	Current Rating **	Voltage Drop
mm <sup>2</sup>	mm	mm	mm	Kg/Km	Amp	mV/A/m
3 x 1.0	0.80	1.40	9.30	116	18	43.70
3 x 1.5	0.80	1.60	10.20	143	25	29.80
3 x 2.5	0.90	1.80	12.10	211	32	17.90
3 x 4.0	1.00	1.90	14.00	294	44	11.10
3 x 6.0	1.00	2.10	15.60	387	56	7.40
3 x 10	1.20	3.30	20.80	681	78	4.30
3 x 16	1.20	3.50	23.50	938	102	2.70
3 x 25	1.40	3.80	27.80	1375	127	1.70
3 x 35	1.40	4.10	30.90	1757	158	1.20
3 x 50	1.60	4.50	35.60	2390	192	0.90
3 x 70	1.60	4.80	39.80	3188	246	0.60
3 x 95	1.80	5.30	45.60	4246	298	0.50
3 x 120	1.80	5.60	49.60	5163	346	0.40
3 x 150	2.00	6.00	54.80	6308	399	0.30
3 x 185	2.20	6.40	59.90	7759	456	0.20
3 x 240	2.40	7.10	68.10	10138	538	0.20
3 x 300	2.60	7.10	74.80	12433	621	0.10



Electrical Appliances



Moving Equipment



Mobile Power Supplies



Cold Environment



Oil Resistant

## H07RN-F4

### TECHNICAL DATA

Nominal Conductor Area	Nominal Insulation Thickness	Nominal Sheath Thickness	Approximate Cable O/D	Approximate Cable Weight	Current Rating **	Voltage Drop
mm <sup>2</sup>	mm	mm	mm	Kg/Km	Amp	mV/A/m
4 x 1.0	0.80	1.50	10.30	142	18	43.70
4 x 1.5	0.80	1.70	11.20	174	25	29.80
4 x 2.5	0.90	1.90	13.30	257	32	17.90
4 x 4.0	1.00	2.00	15.40	360	44	11.10
4 x 6.0	1.00	2.30	17.40	485	56	7.40
4 x 10	1.20	3.40	22.80	831	78	4.30
4 x 16	1.20	3.60	25.60	1150	102	2.70
4 x 25	1.40	4.10	30.80	1724	127	1.70
4 x 35	1.40	4.40	34.20	2204	158	1.20
4 x 50	1.60	4.80	39.40	2997	192	0.90
4 x 70	1.60	5.20	44.20	4030	246	0.60
4 x 95	1.80	5.90	51.00	5410	298	0.50
4 x 120	1.80	6.00	55.00	6528	346	0.40
4 x 150	2.00	6.50	60.90	7994	399	0.30
4 x 185	2.20	7.00	66.80	9870	456	0.20
4 x 240	2.40	7.70	75.80	12881	538	0.20
4 x 300	2.60	8.40	83.40	15830	621	0.10



Electrical Appliances



Moving Equipment



Mobile Power Supplies



Cold Environment



Oil Resistant

## H07RN-F5

### TECHNICAL DATA

Nominal Conductor Area	Nominal Insulation Thickness	Nominal Sheath Thickness	Approximate Cable O/D	Approximate Cable Weight	Current Rating **	Voltage Drop
mm <sup>2</sup>	mm	mm	mm	Kg/Km	Amp	mV/A/m
5 x 1.0	0.80	1.60	11.30	175	18	43.70
5 x 1.5	0.80	1.80	12.30	215	25	29.80
5 x 2.5	0.90	2.00	14.50	318	32	17.90
5 x 4.0	1.00	2.20	17.10	455	44	11.10
5 x 6.0	1.00	2.50	19.20	608	56	7.40
5 x 10	1.20	3.60	25.00	1029	78	4.30
5 x 16	1.20	3.90	28.40	1441	102	2.70
5 x 25	1.40	4.40	34.00	2154	127	1.70
5 x 35	1.40	4.60	37.60	2738	158	1.20
5 x 50	1.60	5.20	43.60	3762	192	0.90
5 x 70	1.60	5.70	49.10	5077	246	0.60
5 x 95	1.80	6.30	56.30	6773	298	0.50

Installation Conditions for above Rating:

- Ambient Air Temperature 30°C
- Conductor Operating Temperature 90°C

### Derating Factor for Ambient Air Temperatures

Air Temperature	25°C	30°C	35°C	40°C	45°C	50°C	55°C
Rating Factors	1.02	1.00	0.96	0.91	0.87	0.82	0.76



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