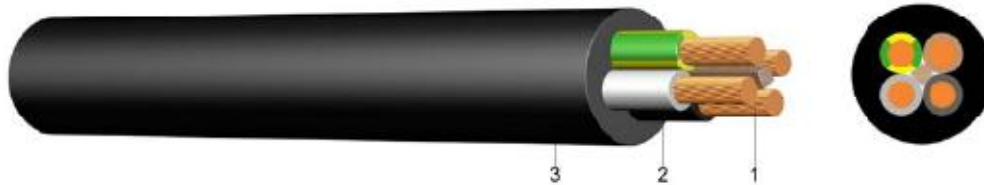


# H07RN-F 600/1000V

## Neoprene cable



**APPLICATION:** H07RN-F flexible rubber cables are suitable for use in domestic appliances, such as kitchens, portable or mobile equipment, electrical tools, transformers, pumps, welders, grinders etc. Also for use in drainage and water treatment, cold environments and severe industrial environments. H07RN-F cable may be rated 0.6/1KV where the installation has been built in protection.



1---conductor 2---insulation 3---outer sheath

### CONSTRUCTION

Conductors	Annealed flexible stranded bare copper or tinned copper, class 5 to EN 60228		
Insulation	Ethylene-propylene rubber ( EPR) type EI4 in according to EN 50363-1		
Circuit Identification	Number	G (earth core)	X (without earth core)
	2	NA	Blue, brown
	3	Green/yellow, blue, brown	Brown, black, grey
	4	Green/yellow, brown, black, grey	Blue, brown, black, grey
	5	Green/yellow, blue, brown, black, grey	Blue, brown, black, grey, black
6 & above	Green/yellow, other cores are black with white numbering	Black with white numbering	
Filler	A jute rope filler will be applied between insulated conductors for sizes $\geq 10\text{mm}^2$		
Separator	A non-woven separator will be applied between insulated conductor & jacket for size $\geq 10\text{mm}^2$		
Jacket	Black, Chlorinated Polyethylene rubber ( CPE) EM2 in according to EN 50363-2-1		
Flammability	EN 60332-1-2: 2004, IEC 60332-1-2: 2004		
Reference standards	EN 60228, EN 50363-1, EN 50363-2-1, EN 60332-1-2, IEC 60332-1-2, DIN VDE 0282-4		
Approval	VDE		

Minimum bending radius	For cable diameter D (mm)			
	$D \leq 8$	$8 < D \leq 12$	$12 < D \leq 20$	$D > 12$
Fixed installation	3 D	3 D	4 D	4 D
At inlet of portable appliance or mobile equipment, no mechanical load on cable	4 D	4 D	5 D	6 D
Under mechanical load	6 D	6 D	6 D	8 D

### FEATURES

- ★ Maximum conductor operating temperature: +90°C \*
- ★ Maximum conductor temperature during short circuit: +250°C
- ★ Lowest ambient temperature for fixed installation: -40°C
- ★ Lowest ambient temperature for mobile installation: -25°C
- ★ UV, sunlight, water, oil, abrasion resistant
- ★ -25 meter submersible under water
- \* Max continuous operating conductor temperature in normal use:
  - +60°C ( in every case of mobile installation )
  - +90°C ( fixed protected installation )

Size	Conductor Strands	Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal Overall Diameter	Approx. Cable Weight	Maximum Conductor Resistance at 20°C	Nominal Current at air temp. 30°C	
							Mobile	Fixed
mm <sup>2</sup>	# x wire dia.	mm	mm	mm	kg/km	Ω/KM		
1 x 1.5	30 x 0.242	0.8	1.4	5.7~7.1	64	13.3	16.5	23
1 x 2.5	49 x 0.242	0.9	1.4	6.3~7.9	80	7.98	22	32
1 x 4	56 x 0.29	1.0	1.5	7.2~9.0	108	4.95	30	43
1 x 6	84 x 0.29	1.0	1.6	7.9~9.8	139	3.30	38	56
1 x 10	78 x 0.39	1.2	1.8	9.5~11.9	220	1.91	53	77
1 x 16	126 x 0.39	1.2	1.9	10.8~13.4	299	1.21	71	102
1 x 25	196 x 0.39	1.4	2.0	12.7~15.8	426	0.780	94	136
1 x 35	268 x 0.39	1.4	2.2	14.3~17.9	553	0.554	117	168
1 x 50	392 x 0.39	1.6	2.4	16.5~20.6	764	0.386	148	203
1 x 70	545 x 0.39	1.6	2.6	18.6~23.3	998	0.272	185	254
1 x 95	741 x 0.39	1.8	2.8	20.8~26.0	1309	0.206	222	299
1 x 120	931 x 0.39	1.8	3.0	22.8~28.6	1581	0.161	260	363
1 x 150	1159 x 0.39	2.0	3.2	25.2~31.4	1872	0.129	300	416
1 x 185	892 x 0.49	2.2	3.4	27.6~34.4	2361	0.106	341	475
1 x 240	1170 x 0.49	2.4	3.5	30.6~38.3	2966	0.0801	407	559
1 x 300	1460 x 0.49	2.6	3.6	33.5~41.9	3629	0.0641	468	637
2 x 1.0	32 x 0.19	0.8	1.3	7.7~10.0	110	19.5	10	18
2 x 1.5	30 x 0.242	0.8	1.5	8.5~11.0	146	13.3	16	23
2 x 2.5	49 x 0.242	0.9	1.7	10.2~13.1	203	7.98	25	32
2 x 4	56 x 0.29	1.0	1.8	11.8~15.1	268	4.95	34	43
2 x 6	84 x 0.29	1.0	2.0	13.1~16.8	363	3.30	43	56
2 x 10	78 x 0.39	1.2	3.1	17.7~22.6	581	1.91	60	77
2 x 16	126 x 0.39	1.2	3.3	20.2~25.7	782	1.21	79	102
2 x 25	196 x 0.39	1.4	3.6	24.3~30.7	1108	0.780	105	136
2 x 35	268 x 0.39	1.4	3.9	26.2~32.0	1391	0.554	130	168
2 x 50	392 x 0.39	1.6	4.3	30.4~37.2	1922	0.386	160	203
2 x 70	545 x 0.39	1.6	4.6	33.8~41.4	2484	0.272	196	254
2 x 95	741 x 0.39	1.8	5.0	38.4~47.0	3234	0.206	238	299
3 x 1.0	32 x 0.19	0.8	1.4	8.3~10.7	133	19.5	10	18
3 x 1.5	30 x 0.242	0.8	1.6	9.2~11.9	172	13.3	16	23
3 x 2.5	49 x 0.242	0.9	1.8	10.9~14.0	244	7.98	25	32
3 x 4	56 x 0.29	1.0	1.9	12.7~16.2	340	4.95	35	43
3 x 6	84 x 0.29	1.0	2.1	14.1~18.0	454	3.30	44	56
3 x 10	78 x 0.39	1.2	3.3	19.1~24.2	751	1.91	60	77
3 x 16	126 x 0.39	1.2	3.5	21.8~27.6	1024	1.21	82	102
3 x 25	196 x 0.39	1.4	3.8	26.1~33.0	1461	0.780	109	136
3 x 35	268 x 0.39	1.4	4.1	29.3~37.1	1833	0.554	135	168
3 x 50	392 x 0.39	1.6	4.5	34.1~42.9	2582	0.386	169	203
3 x 70	545 x 0.39	1.6	4.8	38.4~48.3	3283	0.272	211	254
3 x 95	741 x 0.39	1.8	5.3	43.3~50.0	4328	0.206	250	299
3 x 120	931 x 0.39	1.8	5.6	45.1~55.1	5239	0.161	290	263
3 x 150	1159 x 0.39	2.0	6.0	50.0~61.1	6474	0.129	332	416

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# HO7RN-F NEOPRENE CABLE 600/1000V



( Table Continued )

Size	Conductor Strands	Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal Overall Diameter	Approx. Cable Weight	Maximum Conductor Resistance at 20°C	Nominal Current at air temp. 30°C	
							Mobile	Fixed
mm <sup>2</sup>	# x wire dia.	mm	mm	mm	kg/km	Ω/KM		
4 x 1.0	32 x 0.19	0.8	1.6	9.2~11.9	174	19.5	10	16
4 x 1.5	30 x 0.242	0.8	1.7	10.2~13.1	213	13.3	16	21
4 x 2.5	49 x 0.242	0.9	1.9	12.5~15.5	307	7.98	20	29
4 x 4	56 x 0.29	1.0	2.0	14.0~17.9	421	4.95	30	38
4 x 6	84 x 0.29	1.0	2.3	15.7~20.0	564	3.30	37	50
4 x 10	78 x 0.39	1.2	3.4	20.9~26.5	936	1.91	52	68
4 x 16	126 x 0.39	1.2	3.6	23.8~30.1	1265	1.21	69	92
4 x 25	196 x 0.39	1.4	4.1	28.9~36.6	1860	0.780	92	122
4 x 35	268 x 0.39	1.4	4.4	32.5~41.1	2330	0.554	114	150
4 x 50	392 x 0.39	1.6	4.8	37.7~47.5	3174	0.386	143	182
4 x 70	545 x 0.39	1.6	5.2	42.7~54.0	4182	0.272	178	232
4 x 95	741 x 0.39	1.8	5.9	48.4~61.0	5604	0.206	210	281
4 x 120	931 x 0.39	1.8	6.0	53.0~66.0	6718	0.161	246	325
4 x 150	1159 x 0.39	2.0	6.5	58.0~73.0	8327	0.129	280	373
4 x 185	892 x 0.49	2.2	7.0	64.0~80.0	10363	0.106	330	424
4 x 240	1170 x 0.49	2.4	7.7	72.0~91.0	13060	0.0801	408	480
5 x 1.0	32 x 0.19	0.8	1.7	10.2~13.1	206	19.5	10	16
5 x 1.5	30 x 0.242	0.8	1.8	11.2~14.4	258	13.3	16	21
5 x 2.5	49 x 0.242	0.9	2.0	13.3~17.0	364	7.98	20	29
5 x 4	56 x 0.29	1.0	2.2	15.6~19.9	516	4.95	30	38
5 x 6	84 x 0.29	1.0	2.5	17.5~22.2	686	3.30	38	50
5 x 10	78 x 0.39	1.2	3.6	22.9~29.1	1129	1.91	54	68
5 x 16	126 x 0.39	1.2	3.9	26.4~33.3	1532	1.21	71	92
5 x 25	196 x 0.39	1.4	4.4	32.0~40.4	2284	0.780	94	122
5 x 35	268 x 0.39	1.4	4.8	34.7~42.5	2882	0.554	114	150
5 x 50	392 x 0.39	1.6	5.2	40.1~49.0	3969	0.386	143	182
5 x 70	545 x 0.39	1.6	5.9	44.8~54.8	5206	0.272	178	232
5 x 95	741 x 0.39	1.8	6.0	50.8~62.0	6813	0.206	210	281
5 x 120	931 x 0.39	1.8	6.5	55.4~67.8	8332	0.161	246	325
5 x 150	1159 x 0.39	2.0	7.0	61.2~74.8	10254	0.129	280	373
6 x 1.5	30 x 0.242	0.8	2.5	13.5~16.5	355	13.3	16	21
7 x 1.5	30 x 0.242	0.8	2.6	14.7~18.3	431	13.3	16	21
12 x 1.5	30 x 0.242	0.8	2.9	18.6~22.2	633	13.3	16	21
18 x 1.5	30 x 0.242	0.8	3.2	21.2~25.9	902	13.3	16	21
19 x 1.5	30 x 0.242	0.8	3.5	23.0~29.0	949	13.3	16	21
24 x 1.5	30 x 0.242	0.8	3.5	24.3~30.7	1179	13.3	16	21
25 x 1.5	30 x 0.242	0.8	3.8	25.1~30.7	1268	13.3	16	21
36 x 1.5	30 x 0.242	0.8	3.8	28.0~34.2	1623	13.3	16	21
37 x 1.5	30 x 0.242	0.8	3.8	28.7~35.1	1699	13.3	16	21

( Table Continued on Next Page )

# HO7RN-F NEOPRENE CABLE 600/1000V



( Table Continued )

Size	Conductor Strands	Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal Overall Diameter	Approx. Cable Weight	Maximum Conductor Resistance at 20°C	Nominal Current at air temp. 30°C	
							Mobile	Fixed
mm <sup>2</sup>	# x wire dia.	mm	mm	mm	kg/km	Ω/KM		
6 x 2.5	49 x 0.242	0.9	2.7	15.3~18.7	476	7.98	25	29
7 x 2.5	49 x 0.242	0.9	2.8	16.5~20.1	552	7.98	25	29
12 x 2.5	49 x 0.242	0.9	3.1	20.6~25.2	881	7.98	25	29
18 x 2.5	49 x 0.242	0.9	3.5	23.8~29.0	1203	7.98	25	29
19 x 2.5	49 x 0.242	0.9	3.9	25.3~30.9	1341	7.98	25	29
24 x 2.5	49 x 0.242	0.9	3.9	27.3~34.1	1645	7.98	25	29
25 x 2.5	49 x 0.242	0.9	4.3	29.3~35.8	1786	7.98	25	29
36 x 2.5	49 x 0.242	0.9	4.3	32.7~39.9	2304	7.98	25	29
37 x 2.5	49 x 0.242	0.9	4.3	33.2~40.6	2378	7.98	25	29

**Notes:**

All dimensions & weights are nominal subject to industry standards and tolerance unless otherwise noted.

All product data presented here is for information purpose only.

The customer will accept all factory lengths and + x - 10 percent of total order requested.

