



ChimeraX™ H07RN-F Flexible Rubber Cable



The ChimeraX™ H07RN-F rubber cables are designed to supply power to low voltage appliances including **electric motors** and **submersible pumps** in deep water installations as well as many other types of electrical equipment.

Flame Resistance

IEC 60332-1-2

Oil Resistance

IEC 60811(24H @ 100°C)

Design Reference

HD 22-4

IEC 60811

IEC 60228

HD 308

DIN VDE 0295

DIN VDE 0282 Part 1

Application

Handheld and power supply devices
Use up to 1000 V a.c. is permitted for fixed protected installations (in conduit or appliances) and for motor connections of hoisting motors and similar application

Technical data

Number of Conductor	1~7	
Conductor	Plain Copper, fine wire Class 5	
Insulation	Rubber	
Insulation Color	Acc. To HD 308	
Inner Jacket	Rubber	
Jacket Thickness	Refer the table blow	
Outer Jacket	Rubber	
Outer Jacket Thickness	Refer the table below	
Overall Diameter	Refer the table below	
Jacket Color	Black	
Voltage (Nom.)	450/750V	
Tensile Strength	15N/mm ²	
UV Resistance	Yes	
Ozone Resistance	Acc.to IEC 60811	
Current Rating	According to IEC 60364-5-52/ VDE 0298-4 EN 50565-1/ VDE 0298-565-1	
Correction factor to calculate	@35°C	0.91
the current carrying capacity	@40°C	0.82
acc. to IEC 60364-5-523	@45°C	0.71
table 52-D1 or DIN VDE 0298-4 table 15	@50°C	0.58
The constant k = 141 is calculated acc. to IEC 60949 (short circuit temperature +200°C and conductor temperature +60°C)		



Working Conditions

Storage Temperature

-40°C ~ +60°C

Installation Temperature:

-25°C ~ +60°C

Operation Temperature

-40°C ~ +60°C

Min. Allowable Bending Radius

Static: $\geq 4 \times D$

Dynamic: $\geq 6 \times D$

D is the out diameter of the cable

Conductor			Core size		Cable Size			
Cross section	Resistance Max@20°C	Current Carrying Capacity@30°C	Insulation Thickness	Core OD	Inner Sheath	Outer Sheath	OD Range	Weight Approx.
mm ²	Ω/km	A	mm	mm	mm	mm	mm	kg/km
1 × 25	0.780	94	1.4	9.4	N/A	2.0	14.5	390
1 × 35	0.554	117	1.4	10.7	N/A	2.2	16	500
1 × 50	0.386	148	1.6	12.5	N/A	2.4	18.5	690
1 × 70	0.272	185	1.6	15.0	N/A	2.6	20.0	920
1 × 95	0.206	222	1.8	16.7	N/A	2.8	23.0	1185
1 × 120	0.161	260	1.8	18.5	N/A	3.0	25.0	1490
1 × 150	0.129	300	2.0	20.5	N/A	3.2	27.0	1795
1 × 185	0.106	341	2.2	22.7	N/A	3.4	29.0	2140
1 × 200	0.0955	357	2.2	25.6	N/A	3.4	32.8	2522
1 × 240	0.0801	407	2.4	25.7	N/A	3.5	31.5	2750
1 × 250	0.0785	407	2.4	28.8	N/A	3.5	35.9	3053
1 × 300	0.0641	468	2.6	29.3	N/A	3.6	36.5	3450
1 × 400	0.0495	553	2.8	32.3	N/A	3.8	39.5	4370
3 × 1.5	13.3	15.5	0.8	3.2	N/A	1.6	10.5	142
3 × 2.5	7.98	21	0.9	3.9	N/A	1.8	12.3	205
3 × 4	4.95	29	1.0	4.8	N/A	1.9	14.5	285
3 × 6	3.3	36	1.0	5.3	N/A	2.1	15.8	380
3 × 10	1.91	51	1.2	6.7	1.3	2.0	21.0	695
3 × 16	1.21	67	1.2	7.9	1.4	2.1	24.5	960
3 × 25	0.780	89	1.4	9.4	1.5	2.3	29.0	1390
3 × 35	0.554	110	1.4	10.7	1.6	2.5	32.0	1795
3 × 50	0.386	138	1.6	12.5	1.8	2.7	35.5	2460
3 × 70	0.272	172	1.6	15.0	1.9	2.9	41.5	3300
4 × 1.5	13.3	15.5	0.8	3.2	N/A	1.7	11.4	172
4 × 2.5	7.98	21	0.9	3.9	N/A	1.9	13.5	260
4 × 4	4.95	29	1.0	4.8	N/A	2.0	15.4	355
4 × 6	3.3	36	1.0	5.3	N/A	2.3	17.2	475
4 × 10	1.91	51	1.2	6.7	1.4	2.0	23.2	830
4 × 16	1.21	67	1.2	7.9	1.4	2.2	26.5	1190
4 × 25	0.78	89	1.4	9.4	1.6	2.5	32.5	1720
4 × 35	0.554	110	1.4	10.7	1.7	2.7	35.7	2250
4 × 50	0.386	138	1.6	12.5	1.9	2.9	40.5	3060
4 × 70	0.272	172	1.6	15.0	2.0	3.2	35.8	4130
5 × 1.5	13.3	15.5	0.8	3.2	N/A	1.8	12.6	210
5 × 2.5	7.98	21	0.9	3.9	N/A	2.0	14.7	305
5 × 4	4.95	29	1.0	4.8	N/A	2.2	17.2	430
5 × 6	3.3	36	1.0	5.3	N/A	2.5	19.5	600
5 × 10	1.91	51	1.2	6.7	1.4	2.2	25.5	1030
5 × 16	1.21	67	1.2	7.9	1.5	2.4	30.0	1460
5 × 25	0.78	89	1.4	9.4	1.7	2.7	35.5	2190
5 × 35	0.554	114	1.4	10.7	N/A	4.7	41.63	3188
7 × 1.5	13.3	15.5	0.8	3.2	N/A	2.6	16.7	330

*The dimension in the table is nominal size with a certain tolerance

*Test voltage 2500V



Sheath Marking

The outer sheath is marked in 1meter intervals as follows

HERMESYS CHIMERAX H07RN-F FLEXIBLE RUBBER CABLE YY CORE XXXMMSQ WWWYYY XXXXM

XXX= Conductor size of cross section

YY= Qty of core

Shipping Information

Packing Method

Wooden Drums Protection.

Delivery Length

500M per drum/ According to customer request.

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