



Voltage : 450 / 750 V
Temp. : 60 °C

Application

H07RN-F is a heavy-duty rubber-sheathed flexible cable that is permitted for use for medium mechanical stress in dry, damp, and wet areas and in outdoor area. They are suitable to be connected to equipment use in industry works, for example, like connecting to heating plates, boilers, hand lamps, generator and electric tools such as drills, circular saws etc.

This cable can be used both as a flexible and fixed installation. They can also found their uses in direct laying on components and mechanical parts of machines, such as cranes and lifts. It can also be used in fixed and protected installation for equipments. The cable is also suitable to be install in hazardous areas.

Cable Construction

- Fine strands of bare or tinned copper according to DIN VDE 0295 class 5, IEC 60228 and HD 383
- Rubber insulation E14, to DIN VDE 0282 part 1
- Insulation thickness accordance to DIN VDE 0282 part 4
- Cores identification accordance to DIN VDE 0293
- Green-yellow earth core for 3 cores and above
- Cores stranded in layer
- Rubber outersheath, DIN VDE 0282 part 1, colour black
- Outersheath thickness accordance to DIN VDE 0282
- Ozone, weather, oil & abrasion resistance
- Rubber self-extinguishing and flame retardant, test method B according to VDE 0472 part 804 and IEC 60332-1

Technical Data

- Standard : According to DIN VDE 0282 part 4, IEC 60245-4, HD 22.4 S3
- Nominal voltage : U₀/U 450/750 V
- Temperature range : - 30°C to + 60°C
- Testing voltage : 2.5 KV, 50 Hz
- Min. bending radius : Fixed laying : 4 x cable diameter
Flexing : 15 x cable diameter

Cores Colour

- 1 core : Black
- 2 cores : Brown/Blue
- 3 cores : Green-Yellow/Brown/Blue
- 4 cores : Green-Yellow/Brown/Blue/Black
- 5 cores : Green-Yellow/Brown/Blue/Black/Black
- 6 cores and above : Green-Yellow/The others Black with white figure imprints

Item No.	No. Of Core x Section mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
149001	1 x 1.5	5.6 – 7.0	14.4	58
149002	1 x 2.5	6.2 – 8.0	24.0	71
149003	1 x 4	7.3 – 8.9	38.0	100
149004	1 x 6	8.0 – 9.9	58.0	130
149005	1 x 10	9.4 – 12.0	96.0	230
149006	1 x 16	10.7 – 13.5	154.0	320
149007	1 x 25	12.6 – 15.7	240.0	450
149008	1 x 35	14.4 – 18.0	336.0	600
149009	1 x 50	16.6 – 20.5	480.0	830
149010	1 x 70	18.5 – 23.2	672.0	1090
149011	1 x 95	20.7 – 26.1	912.0	1405
149012	1 x 120	22.7 – 28.5	1152.0	1745
149013	1 x 150	25.3 – 31.5	1440.0	1900
149014	1 x 185	27.5 – 34.5	1776.0	2500
149015	1 x 240	30.5 – 38.2	2304.0	3000
149016	1 x 300	33.4 – 42.0	2880.0	3600
149017	1 x 400	37.5 – 46.7	3840.0	4600
149018	1 x 500	41.2 – 52.1	4800.0	6000
149019	2 x 1	7.8 – 10.1	19.0	92
149020	2 x 1.5	8.4 – 11.1	29.0	135
149021	2 x 2.5	10.3 – 13.0	48.0	193
149022	2 x 4	11.9 – 15.0	77.0	272

Item No.	No. Of Core x Section mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
149023	2 x 6	13.0 – 16.7	115.0	330
149024	2 x 10	17.8 – 22.5	192.0	586
149025	2 x 16	20.3 – 25.8	307.0	810
149026	2 x 25	24.4 – 30.8	480.0	1160
149027	3 G 1	8.4 – 10.8	29.0	130
149028	3 G 1.5	9.3 – 12.0	43.0	165
149029	3 G 2.5	11.0 – 14.1	72.0	235
149030	3 G 4	12.6 – 16.1	115.0	320
149031	3 G 6	14.0 – 17.9	173.0	495
149032	3 G 10	19.0 – 24.1	288.0	880
149033	3 G 16	21.9 – 27.7	461.0	1095
149034	3 G 25	26.0 – 32.9	720.0	1450
149035	3 G 35	29.2 – 37.0	1008.0	1900
149036	3 G 50	34.0 – 42.8	1440.0	2600
149037	3 G 70	38.5 – 48.4	2016.0	3400
149038	3 G 95	43.4 – 54.1	2736.0	4450
149039	3 G 120	47.5 – 60.1	3456.0	5180
149040	3 G 150	52.0 – 66.0	4320.0	6500
149041	3 G 185	57.0 – 72.0	5328.0	7860
149042	3 G 240	65.0 – 82.0	6192.0	10224
149043	3 G 300	72.0 – 90.0	8640.0	12620

Item No.	No. Of Core x Section mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
149044	4 G 1	9.3 – 12.0	38.0	150
149045	4 G 1.5	10.3 – 13.2	58.0	200
149046	4 G 2.5	12.0 – 15.4	96.0	290
149047	4 G 4	14.1 – 18.0	154.0	395
149048	4 G 6	15.6 – 19.9	230.0	605
149049	4 G 10	21.0 – 26.6	384.0	1065
149050	4 G 16	23.7 – 30.0	614.0	1345
149051	4 G 25	28.8 – 36.5	960.0	1995
149052	4 G 35	32.4 – 41.0	1344.0	2645
149053	4 G 50	37.6 – 47.4	1922.0	3635
149054	4 G 70	42.6 – 53.9	2688.0	4830
149055	4 G 95	48.5 – 61.1	3648.0	6320
149056	4 G 120	53.0 – 66.0	4608.0	6830
149057	4 G 150	58.0 – 73.0	5760.0	8320
149058	4 G 185	64.0 – 80.0	7104.0	10060
149059	4 G 240	72.0 – 91.0	9216.0	13125
149060	4 G 300	80.0 – 101.0	11520.0	16140

Item No.	No. Of Core x Section mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
149061	5 G 1.5	11.3 – 14.5	72.0	240
149062	5 G 2.5	13.2 – 16.9	120.0	345
149063	5 G 4	15.5 – 19.8	192.0	485
149064	5 G 6	17.4 – 22.1	288.0	760
149065	5 G 10	23.0 – 29.2	480.0	1300
149066	5 G 16	26.5 – 33.4	768.0	1680
149067	5 G 25	32.1 – 40.5	1200.0	2470
149068	5 G 35	36.9 – 45.9	1680.0	3300
149069	7 G 2.5	16.6 – 20.1	168.0	500
1490a70	7 G 50	ca. 44.4	2400.0	3950