

H07RN-F 450/750 Volts

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H07RN-F is a harmonized, heavy-duty, flexible, rubber insulated, black neoprene jacketed, multi-conductor European cord. Recommended for use in electrical equipment under medium mechanical stress in a dry or damp indoor or outdoor environment. Commonly used on equipment in industry works such as boilers, heating plates, hand lamps, electric tools (drills and circular saws), in homework tools and transportable motors or machines at site. Also suitable for fixed installations on plaster, temporary buildings and residential barracks. H07RN-F is also suitable for direct laying on components and mechanical parts of machines in lifts and cranes. Max operating voltage in single or three phase system is Uo/U 476/825 volts. In a direct current system max operating voltage is Uo/U 619/1238 volts. If in a fixed or protected installation Uo/U is 600/1000 volts.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Rubber core insulation to VDE-0282 Part-1
- Color code VDE-0293-308 and HD 186
- Polychloroprene rubber (neoprene) jacket
- Ozone & weather resistant
- Oil & fat resistant to touch

Technical:

- Working voltage: 450/750 volts
- Test voltage: 2500 volts
- Flexing bending radius: 7.5 x Ø
- Fixed bending radius: 4.0 x Ø
- Temp Range: -30° C to +60° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- <HAR> HD22.4 S3
- VDE-0282 Part-4
- CE low voltage directive 73/23/EEC & 93/68/EEC.
- IEC 60245-4
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
17 AWG (32/32) 1.00mm²				
4101702	2	0.303 - 0.394" / 7.7 - 10.0mm	13	66
4101703	3	0.327 - 0.421" / 8.3 - 10.7mm	19	87
4101704	4	0.362 - 0.469" / 9.2 - 11.9mm	25	101
16 AWG (30/30) 1.50mm²				
4101601	1	0.224 - 0.280" / 5.7 - 7.1mm	10	39
4101602	2	0.339 - 0.433" / 8.5 - 11.0mm	19	91
4101603	3	0.362 - 0.469" / 9.2 - 11.9mm	29	108
4101604	4	0.402 - 0.516" / 10.2 - 13.1mm	39	136
4101605	5	0.441 - 0.567" / 11.2 - 14.4mm	48	160
4101607	7	0.571 - 0.689" / 14.5 - 17.5mm	68	252
4101612	12	0.693 - 0.882" / 17.6 - 22.4mm	117	309
4101619	19	0.815 - 1.035" / 20.7 - 26.3mm	184	543
4101624	24	0.957 - 1.209" / 24.3 - 30.7mm	232	681
14 AWG (50/30) 2.50mm²				
4101401	1	0.248 - 0.311" / 6.3 - 7.9mm	16	48
4101402	2	0.402 - 0.516" / 10.2 - 13.1mm	32	129
4101403	3	0.429 - 0.551" / 10.9 - 14.0mm	48	155
4101404	4	0.476 - 0.610" / 12.1 - 15.5mm	64	189
4101405	5	0.524 - 0.669" / 13.3 - 17.0mm	80	223
4101407	7	0.650 - 0.787" / 16.5 - 20.0mm	113	349
4101412	12	0.811 - 1.031" / 20.6 - 26.2mm	193	510
4101419	19	1.004 - 1.220" / 25.5 - 31.0mm	306	721
4101424	24	1.134 - 1.433" / 28.8 - 36.4mm	386	932
12 AWG (55/26) 4.00mm²				
4101201	1	0.283 - 0.354" / 7.2 - 9.0mm	25	67
4101202	2	0.455 - 0.594" / 11.8 - 15.1mm	52	178
4101203	3	0.500 - 0.638" / 12.7 - 16.2mm	77	216
4101204	4	0.551 - 0.705" / 14.0 - 17.9mm	103	283
4101205	5	0.614 - 0.783" / 15.6 - 19.9mm	129	321
4101207	7	0.747 - 0.858" / 18.2 - 21.8mm	170	457
10 AWG (84/28) 6.00mm²				
4101001	1	0.311 - 0.388" / 7.9 - 9.8mm	39	87
4101003	3	0.555 - 0.709" / 14.1 - 18.0mm	116	284
4101004	4	0.618 - 0.787" / 15.7 - 20.0mm	154	356
4101005	5	0.689 - 0.874" / 17.5 - 22.2mm	193	437

Sizes continued on next page.



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Harmonized Cordage

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H07RN-F Sizes Continued. (8 AWG & Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
8 AWG (80/26) 10,0mm²				
4100801	1	0.374 - 0.469" / 9.5 - 11.9mm	64	141
4100803	3	0.752 - 0.953" / 19.1 - 24.2mm	193	538
4100804	4	0.823 - 1.043" / 20.9 - 26.5mm	258	645
4100805	5	0.902 - 1.148" / 22.9 - 29.1mm	322	779
6 AWG (128/28) 16,0mm²				
4100601	1	0.425 - 0.528" / 10.8 - 13.4mm	103	202
4100603	3	0.858 - 1.087" / 21.8 - 27.6mm	309	758
4100604	4	0.937 - 1.185" / 23.8 - 30.1mm	412	921
4100605	5	1.039 - 1.311" / 26.4 - 33.3mm	515	1129
4 AWG (200/29) 25,9mm²				
4100401	1	0.500 - 0.622" / 12.7 - 15.8mm	161	283
4100403	3	1.028 - 1.299" / 26.1 - 33.0mm	483	838
4100404	4	1.138 - 1.441" / 28.9 - 36.6mm	644	1309
4100405	5	1.260 - 1.591" / 32.0 - 40.4mm	805	1509
2 AWG (280/26) 36,0mm²				
* 4100201	1	0.583 - 0.708" / 14.3 - 17.9mm	228	370
4100203	3	1.154 - 1.461" / 29.3 - 37.1mm	678	1274
4100204	4	1.280 - 1.618" / 32.5 - 41.1mm	901	1722
4100205	5	1.449 - 1.803" / 36.8 - 45.8mm	1127	1845
1 AWG (400/25) 50,9mm²				
4100101	1	0.650 - 0.811" / 16.5 - 20.6mm	322	510
4100103	3	1.343 - 1.688" / 34.1 - 42.9mm	966	1724
4100104	4	1.484 - 1.870" / 37.7 - 47.5mm	1288	2140
2/0 AWG (556/24) 70,9mm²				
* 4102101	1	0.732 - 0.917" / 18.6 - 23.3mm	451	665
4102103	3	1.512 - 1.902" / 38.4 - 48.3mm	1362	1743
4102104	4	1.681 - 2.128" / 42.7 - 54.0mm	1803	2857
3/0 AWG (485/24) 95,0mm²				
4103101	1	0.819 - 1.024" / 20.8 - 26.0mm	612	859
4103103	3	1.705 - 2.128" / 43.3 - 54.0mm	1836	2280
4103104	4	1.906 - 2.402" / 48.4 - 61.0mm	2447	3756
4/0 AWG (614/24) 120,0mm²				
4104101	1	0.898 - 1.126" / 22.8 - 28.6mm	773	1068
4104103	3	1.866 - 2.362" / 47.4 - 60.0mm	2318	3474
4104104	4	2.087 - 2.598" / 53.0 - 66.0mm	3091	4581
300 MCM (765/24) 160,0mm²				
4103001	1	0.992 - 1.236" / 25.2 - 31.4mm	966	1311
4103004	4	2.283 - 2.874" / 58.0 - 73.0mm	3863	5580
350 MCM (944/24) 185,0mm²				
4103801	1	1.037 - 1.354" / 27.6 - 34.4mm	1191	1546
4103504	4	2.520 - 3.150" / 64.0 - 80.0mm	4765	6573
500 MCM (1221/24) 240,0mm²				
4105001	1	1.205 - 1.508" / 30.6 - 38.3mm	1545	2083
4105004	4	2.835 - 3.583" / 72.0 - 91.0mm	6181	8115

* For 18 AWG (0,75mm²) please see H05RN-F (411)

** Additional AWG/MCM sizes and core counts may be available.

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The Mueller Group, Inc.
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