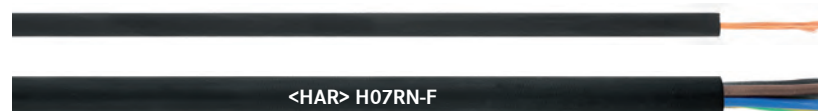


H07RN-F enhanced cordage

Heavy duty halogen-free rubber European cordage with <HAR> approval



H07RN-F enhanced cordage is a low smoke, halogen free cordage that meets <HAR> H07RN-F approval. It is highly flexible with a better temperature range than H07RN-F. It has an international color code and a jacket which is resistant to oil, chemicals, and abrasion.

Construction

Conductors: finely stranded bare copper

Insulation: specially formulated rubber

Jacket: specially formulated rubber; black

Recommended applications

Power cordage for European machinery; portable tools; data processing; control systems; commercial appliances; MRO replacement for European machinery

Application advantage

- Oil-, chemical-, and abrasion-resistant jacket
- MRO replacement for European machinery
- AD8 submersible
- Low smoke, zero halogen (LSZH)
- Meets torsion requirements for wind turbine applications

Approvals



Cable attributes		page 648	
 OIL	OR-01	 FLAME	FR-02
 MOTION	WT-02	 MECH.	MP-01

Complete the installation	
 SKINTOP® strain relief page 492	 EPIC® pin & sleeve page 465

Technical data

 Minimum bend radius:	4 x cable diameter	 Conductor stranding:	Class 5 fine wire
 Temperature range:		 Color code:	
- for stationary use:	-50°C to +90°C	- up to 5c:	VDE 0293-308: chart 6, page 681
- for flexible use:	-40°C to +90°C	- more than 5c:	black with white numbers, plus green/yellow ground
 Nominal voltage:	450/750V	 Approvals:	<HAR> H07RN-F
 Test voltage:	2500V		CE & RoHS

H07RN-F enhanced cordage

Part number	Number of conductors incl. ground	Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft
		in	mm		
18 AWG (1 mm²)					
4533027	3	0.327 - 0.422	8.3 - 10.7	19	94
4533061	4	0.362 - 0.469	9.2 - 11.9	26	108
4533091	5	0.402 - 0.516	10.2 - 13.1	32	134
16 AWG (1.5 mm²)					
4533029	3	0.362 - 0.469	9.2 - 11.9	29	116
4533063	4	0.402 - 0.516	10.2 - 13.1	39	134
4533093	5	0.441 - 0.567	11.2 - 14.4	48	168
4533111	7	0.579 - 0.736	14.7 - 18.7	68	289
4533113	12	0.693 - 0.882	17.6 - 22.4	116	417
14 AWG (2.5 mm²)					
4533031	3	0.429 - 0.552	10.9 - 14.0	48	151
4533065	4	0.476 - 0.611	12.1 - 15.5	65	192
4533095	5	0.524 - 0.670	13.3 - 17.0	81	232
4533115	12	0.811 - 1.031	20.6 - 26.2	194	571
12 AWG (4 mm²)					
4533033	3	0.500 - 0.638	12.7 - 16.2	77	218
4533067	4	0.551 - 0.705	14.0 - 17.9	103	265
4533097	5	0.614 - 0.784	15.6 - 19.9	129	326
10 AWG (6 mm²)					
4533035	3	0.555 - 0.709	14.1 - 18.0	116	279
4533069	4	0.618 - 0.788	15.7 - 20.0	155	360
4533099	5	0.689 - 0.875	17.5 - 22.2	194	435
8 AWG (10 mm²)					
4533004	1	0.374 - 0.469	9.5 - 11.9	65	129
4533037	3	0.752 - 0.953	19.1 - 24.2	194	478
4533071	4	0.823 - 1.044	20.9 - 26.5	258	618
6 AWG (16 mm²)					
4533005	1	0.425 - 0.528	10.8 - 13.4	103	176
4533039	3	0.858 - 1.087	21.8 - 27.6	310	665
4533073	4	0.937 - 1.186	23.8 - 30.1	413	867
4 AWG (25 mm²)					
4533006	1	0.500 - 0.623	12.7 - 15.8	161	252
4533041	3	1.028 - 1.300	26.1 - 33.0	484	937
4533075	4	1.138 - 1.442	28.9 - 36.6	645	1297
4533101	5	1.260 - 1.591	32.0 - 40.4	806	1680

Part number	Number of conductors incl. ground	Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft
		in	mm		
2 AWG (35 mm²)					
4533007	1	0.563 - 0.705	14.3 - 17.9	226	331
4533043	3	1.154 - 1.462	29.3 - 37.1	677	1220
4533077	4	1.280 - 1.619	32.5 - 41.1	903	1660
4533103	5	1.406 - 1.776	35.7 - 45.1	1129	2184
1 AWG (50 mm²)					
4533008	1	0.650 - 0.812	16.5 - 20.6	323	454
4533045	3	1.343 - 1.690	34.1 - 42.9	968	1660
4533079	4	1.484 - 1.872	37.7 - 47.5	1290	2231
4533105	5	1.646 - 2.087	41.8 - 53.0	1613	2962
2/O AWG (70 mm²)					
4533009	1	0.732 - 0.918	18.6 - 23.3	452	614
4533081	4	1.681 - 2.126	42.7 - 54.0	1806	2970
4533107	5	1.870 - 1.895	47.5 - 60.0	2258	3940
3/O AWG (95 mm²)					
4533010	1	0.819 - 1.024	20.8 - 26.0	613	806
4533083	4	1.906 - 2.403	48.4 - 61.0	2451	3864
4533109	5	2.126 - 2.638	54.0 - 67.0	3064	5065
4/O AWG (120 mm²)					
4533011	1	0.898 - 1.126	22.8 - 28.6	774	995
4533085	4	2.087 - 2.600	53.0 - 66.0	3097	4697
250 KCMIL (150 mm²)					
4533012	1	0.992 - 1.237	25.2 - 31.4	968	1232
4533087	4	2.283 - 2.876	58.0 - 73.0	3871	5813
350 KCMIL (185 mm²)					
4533013	1	1.087 - 1.355	27.6 - 34.4	1193	1472
4533089	4	2.520 - 3.152	64.0 - 80.0	4774	6576
450 KCMIL (240 mm²)					
4533014	1	1.205 - 1.509	30.6 - 38.3	1548	1868
600 KCMIL (300 mm²)					
4533015	1	1.319 - 1.650	33.5 - 41.9	1935	2224
750 KCMIL (400 mm²)					
4533016	1	1.472 - 1.843	37.4 - 46.8	2580	2903
1000 KCMIL (500 mm²)					
4533017	1	1.626 - 2.047	41.3 - 52.0	3226	3590



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