


U.I. Lapp GmbH	PRODUCT INFORMATION	
	H07RN-F, enhanced version	29.11.2013

Heavy standard construction; Halogen-free; AD8-submersible; Conductor temperature, flexible: -40°C to +90°C

For mechanically more demanding applications

1000 V AC @ protected + static laying

Arrangements made of single-core, rubber-sheathed cables H07RN-F can be used for short circuit-proof and short-to-ground-proof installations in accordance with VDE 0100 Part 520

More water-resistant than H07RN-F

Conductor temperature range more suitable for outdoor installation and wider than H07RN-F, H07ZZ-F, H07BN4-F und NSSHÖU

H07RN-F <HAR>



Suitable for outdoor use



Good chemical resistance



Halogen-free



Cold-resistant



Mechanical resistance



Oil-resistant



UV-resistant

Info

Medium mechanical stress

Flexible: -40°C to +90°C

AD8 submersion, Halogen-free, Ozone-resistant

Application range

Handheld and power supply devices according to HD 516

Medium, mechanical stress (H07RN-F)/ industrial, agricultural use

Submersion acc. AD8 standard

Outdoors acc. HD 516

For buildings or industrial plants with a high density of people or valuable assets

Product Management	Document: LAPP_PRO215328EN.pdf	1 / 5
--------------------	--------------------------------	-------

U.I. Lapp GmbH	PRODUCT INFORMATION	
	H07RN-F, enhanced version	29.11.2013

Design

Conductor made of bare, finely stranded copper strands acc. conductor class 5 in line with IEC 60228
Core insulation of special rubber
Outer sheath: special rubber compound

Norm references / Approvals

<HAR> H07RN-F cable type approval according to EN 50525-2-21
Beyond that, no further cable type approvals

Product features

Halogen-free and flame-retardant according to IEC 60332-1-2
Oil-resistant according to EN 60811-404
UV-resistant (black outer sheath) + Ozone-resistant acc. EN 60811
Good resistance to abrasion, atmospheric agents, grease and mineral oils
AD8 submersibility

Remark

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Copper price basis: EUR 150/100kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.
Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
Photographs are not to scale and do not represent detailed images of the respective products.

Technical Data

Core identification code:	Up to 5 cores: colour-coded according to VDE 0293-308, refer to Appendix T9 From 6 cores: black with white numbers
Conductor stranding:	Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
Minimum bending radius:	Moved: 6 x Outer diameter Fixed installation: 4 x Outer diameter
Nominal voltage:	U ₀ /U: 450/750 V
Test voltage:	2500 V AC
Protective conductor:	G = with GN-YE protective conductor X = without protective conductor
Current rating:	According to IEC 60364-5-52/ VDE 0298-4 HD 516/VDE 0298-300
Temperature range:	Moved: -40°C to +90°C Fixed installation: -50°C to +90°C

Product Management	Document: LAPP_PRO215328EN.pdf	2 / 5
--------------------	--------------------------------	-------

Part number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
4533019	2 X 1,0	10,0	19.2	100
4533027	3 G 1,0	10,7	28.8	140
4533028	3 X 1,0	10,7	28.8	140
4533061	4 G 1,0	11,9	38.4	160
4533062	4 X 1,0	11,9	38.4	160
4533091	5 G 1,0	13,1	48.0	200
4533092	5 X 1,0	13,1	48.0	200
4533000	1 X 1,5	7,1	14.4	55
4533020	2 X 1,5	11,0	28.8	125
4533029	3 G 1,5	11,9	43.2	172
4533030	3 X 1,5	11,9	43.2	172
4533063	4 G 1,5	13,1	57.6	200
4533064	4 X 1,5	13,1	57.6	200
4533093	5 G 1,5	14,4	72.0	250
4533094	5 X 1,5	14,4	72.0	250
4533111	7 G 1,5	15,7	100.8	430
4533112	7 X 1,5	15,7	100.8	430
4533113	12 G 1,5	18,9	172.8	620
4533114	12 X 1,5	18,9	172.8	620
4533001	1 X 2,5	7,9	24.0	72
4533021	2 X 2,5	13,1	48.0	173
4533031	3 G 2,5	14,0	72.0	225
4533032	3 X 2,5	14,0	72.0	225
4533065	4 G 2,5	15,5	96.0	285
4533066	4 X 2,5	15,5	96.0	285
4533095	5 G 2,5	17,0	120.0	345
4533096	5 X 2,5	17,0	120.0	345
4533115	12 G 2,5	21,8	288.0	850
4533116	12 X 2,5	21,8	288.0	850
4533002	1 X 4	9,0	38.4	98
4533022	2 X 4	15,1	76.8	239
4533033	3 G 4	16,2	115.2	325
4533034	3 X 4	16,2	115.2	325
4533067	4 G 4	17,9	153.6	395



Part number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
4533068	4 X 4	17,9	153.6	395
4533097	5 G 4	19,9	192.0	485
4533098	5 X 4	19,9	192.0	485
4533003	1 X 6	9,8	57.6	127
4533023	2 X 6	16,8	115.2	330
4533035	3 G 6	18.0	172.8	415
4533036	3 X 6	18.0	172.8	415
4533069	4 G 6	20.0	230.4	535
4533070	4 X 6	20.0	230.4	535
4533099	5 G 6	22,2	288.0	648
4533100	5 X 6	22,2	288.0	648
4533004	1 X 10	11,9	96.0	192
4533024	2 X 10	22,6	192.0	590
4533037	3 G 10	24,2	288.0	712
4533038	3 X 10	24,2	288.0	712
4533071	4 G 10	26,5	384.0	920
4533072	4 X 10	26,5	384.0	920
4533005	1 X 16	13,4	153.6	262
4533039	3 G 16	27,6	460.8	990
4533040	3 X 16	27,6	460.8	990
4533073	4 G 16	30,1	614.4	1290
4533074	4 X 16	30,1	614.4	1290
4533006	1 X 25	15,8	240.0	375
4533041	3 G 25	33.0	720.0	1395
4533042	3 X 25	33.0	720.0	1395
4533075	4 G 25	36,6	960.0	1930
4533076	4 X 25	36,6	960.0	1930
4533101	5 G 25	32,7	1200.0	2500
4533102	5 X 25	32,7	1200.0	2500
4533007	1 X 35	17,9	336.0	493
4533043	3 G 35	37,1	1008.0	1815
4533044	3 X 35	37,1	1008.0	1815
4533077	4 G 35	41,1	1344.0	2470
4533078	4 X 35	41,1	1344.0	2470



Part number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
4533103	5 G 35	36,4	1680.0	3250
4533104	5 X 35	36,4	1680.0	3250
4533008	1 X 50	20,6	480.0	675
4533045	3 G 50	42,9	1440.0	2470
4533046	3 X 50	42,9	1440.0	2470
4533079	4 G 50	47,5	1920.0	3320
4533080	4 X 50	47,5	1920.0	3320
4533105	5 G 50	42,2	2400.0	4408
4533106	5 X 50	42,2	2400.0	4408
4533009	1 X 70	23,3	672.0	914
4533081	4 G 70	54.0	2688.0	4420
4533082	4 X 70	54.0	2688.0	4420
4533107	5 G 70	48,1	3360.0	5863
4533108	5 X 70	48,1	3360.0	5863
4533010	1 X 95	26.0	912.0	1200
4533083	4 G 95	61.0	3648.0	5750
4533084	4 X 95	61.0	3648.0	5750
4533109	5 G 95	54,5	4560.0	7537
4533110	5 X 95	54,5	4560.0	7537
4533011	1 X 120	28,6	1152.0	1481
4533085	4 G 120	66.0	4608.0	6990
4533086	4 X 120	66.0	4608.0	6990
4533012	1 X 150	31,4	1440.0	1833
4533087	4 G 150	73.0	5760.0	8650
4533088	4 X 150	73.0	5760.0	8650
4533013	1 X 185	34,4	1776.0	2190
4533089	4 G 185	80.0	7104.0	9785
4533090	4 X 185	80.0	7104.0	9785
4533014	1 X 240	38,3	2304.0	2780
4533015	1 X 300	38,7	2880.0	3310
4533016	1 X 400	40.0	3840.0	4320
4533017	1 X 500	43.0	4800.0	5342