

Rubber Cable

H07RN-F

Rubber power and control cable, based on AS/NZS 5000.1

Construction:

Class 5 tinned copper conductors. colour or number coded ethylene-propylene rubber insulating material. flame-retardant. UV, ozone and oil-resistant black rubber sheath.

Minimum Bending Radius:

Flexing: 4 x cable diameter (up to 12mm Ø)
 5 x cable diameter (12-20mm Ø)
 6 x cable diameter (over 20mm Ø)
 Fixed: 3 x cable diameter (up to 12mm Ø)
 4 x cable diameter (over 12mm Ø)

Temperature Range:

-40°C to +90°C

Colour Coding:

Colour coding of power conductors comply to HD 308 . DIN VDE 0293- 308.
 2-core: Blue and brown
 3-core: Blue, brown, green-yellow
 4-core: Brown, black, grey, green-yellow
 5-core: Green-yellow, blue, brown, black, grey
 Above 5-core: Black with green-yellow consecutive white numbers. 1 core

Features:

- Submersible to 500 metres
- UV-resistant
- Flame-retardant
- Oil-resistant
- Tinned conductors

Nominal Voltage:

600/1000V



Part No.	Nominal conductor area mm ² and number of cores		Approx. overall Ø mm	Approx. weight kg/km
	mm ²	cores		
G-023011	1mm ²	2 core + earth	8.5	107
G-023012	1.5mm ²	2 core + earth	9.5	137
G-023013	2.5mm ²	2 core + earth	11.3	202
G-023014	4mm ²	2 core + earth	13.8	292
G-023015	6mm ²	2 core + earth	15.0	390
G-023016	10mm ²	2 core + earth	20.2	684
G-023017	16mm ²	2 core + earth	23.1	944
G-022879	1mm ²	3 core + earth	9.4	131
G-022880	1.5mm ²	3 core + earth	10.4	167
G-022981	2.5mm ²	3 core + earth	12.5	247
G-022982	4mm ²	3 core + earth	14.3	340
G-022983	6mm ²	3 core + earth	16.3	463
G-022984	10mm ²	3 core + earth	22.1	831
G-022985	16mm ²	3 core + earth	25.3	1166
G-022986	25mm ²	3 core + earth	30.1	1711
G-022987	35mm ²	3 core + earth	32.5	2190
G-022988	50mm ²	3 core + earth	37.8	3101
G-022989	70mm ²	3 core + earth	44.2	4143
G-022990	95mm ²	3 core + earth	49.6	5517
G-022991	120mm ²	3 core + earth	54.4	6611
G-022992	150mm ²	3 core + earth	60.9	8244
G-022993	185mm ²	3 core + earth	68.2	10113
G-022994	240mm ²	3 core + earth	74.1	12838

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Part No.	Nominal conductor area mm ² and number of cores		Approx. overall Ø mm	Approx. weight kg/km
G-022910	1.5mm ²	4 core + earth	11.5	206
G-022951	2.5mm ²	4 core + earth	13.7	304
G-022952	4mm ²	4 core + earth	15.9	426
G-022953	6mm ²	4 core + earth	18.1	579
G-022954	10mm ²	4 core + earth	24.3	1024
G-022955	16mm ²	4 core + earth	28.7	1440
G-022956	25mm ²	4 core + earth	33.3	2105
G-024457	35mm ²	4 core + earth	36.2	2618
G-024459	50mm ²	4 core + earth	43.9	3730
G-024460	70mm ²	4 core + earth	49.5	4985
G-025754	95mm ²	4 core + earth	57.5	6765
G-029183	120mm ²	4 core + earth	60.5	7920
G-027746	150mm ²	4 core + earth	67.5	9800
G-029184	185mm ²	4 core + earth	75.9	12040
G-022973	1.5mm ²	6 core + earth	15.7	339
G-022974	2.5mm ²	6 core + earth	18.3	482
G-022975	1.5mm ²	11 core + earth	19.1	497
G-022976	2.5mm ²	11 core + earth	22.3	707
G-022977	1.5mm ²	17 core + earth	22.3	700

Current rating in free air at air temperature of 30°C and conductor temperature of 90°C

Cross section	Single core	Two cores	Three cores	Four cores	Five cores	Seven cores
15	24	23	23	21	21	15
25	32	32	32	29	29	23
4	42	42	42	38	38	28
6	55	55	55	50	50	55
10	77	77	77	67	67	74
16	101	101	101	91	91	—
25	133	133	133	121	121	—
35	165	—	165	149	—	—
50	202	—	202	183	—	—
70	250	—	260	231	—	—
95	300	—	310	280	—	—
120	360	—	370	324	—	—
150	412	—	430	372	—	—
185	465	—	490	423	—	—
240	550	—	580	501	—	—
300	630	—	680	—	—	—
500	831	—	—	—	—	—

Correction factor for ambient temperature

Temperature of air °C	35	40	45	50	55	60	65	70	75	80
Correct factor	0.95	0.90	0.85	0.82	0.76	0.70	0.64	0.57	0.50	0.40