

H07RN-F

Application

For connecting of power tools, mobile units and machines for medium mechanical requirements in dry and humid rooms, for outdoor use, in explosive areas, in commercial and agricultural plants and on construction lots. Also suitable for fixed laying e.g. on-wall in provisional buildings, for directly laying on modules of hoisting devices, machinery etc.

Cable Structure & Features

Conductor material	Bare copper strand
Conductor class	Class 5 accto EN 60228
Core insulation	Rubber compound
Core identification	Acc. to DIN VDE 0293-308 up to 5 wires coloured, from 6 wires black with white numerals with or without green/yellow
Stranding	Cores stranded in layers
Inner sheath	Rubber compound
Outer sheath	Polychloroprene(NEOPRENE®)
Sheath colour	Black
Printing	Yes

Special Features / Remarks

- For protected fixed laying in pipes or units and as motor connecting cable permitted up to 1000V
- Also suitable for laying in industrial water
- Free from lacquer damaging substances and silicone (during production)
- Conform to RoHS
- Conform to 73/23/EWG-Guideline CE
- We are pleased to produce special versions, other dimension, core and jacket colourson request

Technical Data

Standard	Acc. to DIN VDE 0282 part 4
Rated voltage	H05RN-F 300/500V (0.5mm ² -1.0mm ²) H07RN-F 450/750 V (1.5mm ² -300mm ²)
Testing voltage	2.5 KV
Min. bending radius fixed	Acc. to DIN VDE 0298 part 3
Min. bending radius moved	Acc. to DIN VDE 0298 part 3
Operating temp	Fixed: -30°C / +85°C Moved: -25°C / +60°C
Max. pulling load	<2000 daN
Tensile stress per mm ²	5 daNfor 1.5, 2.5 & 4mm ² cross-sections 6 daNfor higher copper cross-sections

Item No.	No. of core	Outer Ø mm	Copper weight	Weight kg/km
70310116	1C 1.5	7.1	14.4	59
70310117	1C 2.5	7.9	24	74
70310120	1C 4	9.0	60	99
70310121	1C 6	9.8	58	129
70310122	1C 10	11.9	96	200
70310123	1C 16	13.4	154	279
70310124	1C 25	15.8	240	396
70310125	1C 35	17.9	336	540
70310126	1C 50	20.6	480	719
70310127	1C 70	23.3	672	947
70310128	1C 95	26.0	912	1230
70310129	1C 120	28.6	1152	1520

Item No.	No. of core	Outer Ø mm	Copper weight	Weight kg/km
70310130	1C 150	31.4	1440	1887
70310131	1C 185	34.4	1776	2300
70310132	1C 240	38.3	2304	2960
70310133	1C 300	41.9	2880	3585
70110212	2X 0.75	7.5	14.4	65
70110312	3G 0.75	8.2	21.6	80
70110412	4G 0.75	8.8	29	95
70300214	2X 1.0	10	19	89
70300314	3G 1.0	10.7	29	111
70310414	4G 1.0	11.9	38	146
70300514	5G 1.0	13.1	46	192
70300716	7G 1.5	17.5	101	371

Item No.	No. of core	Outer Ø mm	Copper weight	Weight kg/km
70301216	12G 1.5	22.4	173	516
70301816	18G 1.5	26.3	274	770
70301916	19G 1.5	26.3	275	788
70302416	24G 1.5	30.7	346	968
70310217	2X 2.5	13.1	48	177
70300317	3G 2.5	14	72	217
70300417	4G 2.5	15.5	96	269
70300517	5G 2.5	17	120	329
70300717	7G 2.5	20	168	499
70300817	8G 2.5	19.5	192	590
70301217	12G 2.5	26.2	288	719
70301817	18G 2.5	30.9	432	1068
70301917	19G 2.5	28	456	1068
70302417	24G 2.5	36.4	576	1400
70310220	2X 4	15.1	77	249
70300320	3G 4	16.2	115	298
70300420	4G 4	17.9	154	373
70300520	5G 4	19.9	192	466
70310221	2G 6	16.8	116	327
70300321	3G 6	18.0	173	407
70300421	4G 6	20.0	230	514
70300521	5G 6	22.2	288	640
70310222	2X 10	22.6	192	586
70300322	3G 10	24.2	288	716
70300422	4G 10	26.5	384	898
70300522	5G 10	29.1	480	1107
70310223	2X 16	25.7	307	810
70300323	3G 16	27.6	461	1008
70300423	4G 16	30.1	614	1253
70300523	5G 16	33.3	768	1564
70310224	2X 25	30.7	480	1157
70300324	3G 25	33	720	1451
70300424	4G 25	36.6	960	1846
70300524	5G 25	40.4	1200	2291
70300325	3G 35	37.1	1008	1901
70300425	4G 35	41.1	1344	2393

Item No.	No. of core	Outer Ø mm	Copper weight	Weight kg/km
70300525	5G 35	45.8	1680	2684
70300326	3G 50	42.9	1440	2580
70300426	4G 50	47.5	1920	3284
70300526	5G 50	47	2400	3950
70300327	3G 70	48.3	2016	3386
70300427	4G 70	54	2688	4331
70300527	5G 70	50	3360	4893
70300328	3G 95	54	2736	4483
70300428	4G 95	61	3648	5712
70300329	3G 120	60	3456	5182
70300429	4G 120	66	4608	6828
70300430	4G 150	73	5760	8319
70300431	4G 185	80	7104	10,062
70300432	4G 240	91	9216	13,125