



## 기술사항

- 고무-취스형 케이블 H07 RN-F, DIN VDE 0282 part 4, HD 22.4 S 3 및 IEC 60245-4 규격
- 온도범위 -30°C ~ +60°C
- 도체 허용 가동온도 +60°C
- 정격전압 U<sub>0</sub>/U 450/750V
- 최대 허용 가동전압 삼상 및 단상 교류 U<sub>0</sub>/U 476/825V 직류 전류 시 U<sub>0</sub>/U 619/1283V
- 시험 전압 2500V
- 최대 인장력 최대 15N/mm<sup>2</sup>
- 최소 곡률 반경 고정 설치시 4 × cable ø 유도 롤러 사용시 7.5 × cable ø 드럼에 감겨져 있는 경우 5-7 × cable ø
- 환경 영향 비교 특성 시험

## 케이블 구조

- 나동 또는 주석도금 구리 도체, 세선 연선, DIN VDE 0295 cl.5 BS 6360 cl.5 IEC 60228 cl.5 및 HD 383 규격
- 고무 코아 절연체, DIN VDE 0282 part 1 규격의 E4
- 절연체 두께, DIN VDE 0282 part 4 규격
- DIN VDE 0293-308 및 HD 186 규격의 선심 색별표시
- 선심 색 - 5 코아 이하 : 단색 - 6 코아 이상 : 흑색 코아에 흰색 연속번호 - 3 코아 이상 : g/y 접지선 포함 - 2 코아 이하 : g/y 접지선 없음.
- 최대 피치의 적층 코아 연선
- 흑색 고무 외피, DIN VDE 0282 part 1 규격의 합성 고무
- 취스 두께, DIN VDE 0282 part 4 규격

## 특징

- 저항성 -오존 -기후
- 내유성 according to EN 60811-2-1
- 화재시 특성 DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1
- 내오존성 절연체, VDE 0472 part 805, 검사 방법 A 또는 part 805 A1, 검사방법

## 용도

- 중량 작업용 고무-취스형 후렉시블 케이블은 중간정도의 기계적 인장력이 있는 견속한 환경뿐만 아니라 옥외 및 농업용 기계에 적합함.
- 보일러, 열기구, 손전등 같은 산업용 장비, 드릴, 동근 띠톱과 같은 전기 기구 및 가정용 기구뿐만 아니라 이동용 모터 및 기계류에 사용할 수 있음. 석고, 가 건물 및 거주용 막사의 고정 설치에 적합함.
- 리프트와 크레인과 같은 기계의 부품 및 구성 요소에 직접 구성할 수 있음.
- 튜브 또는 장비 속의 보호 및 고정 설치에 적합할 뿐만 아니라 가동전압이 교류 1000V 이하, 접지 대비 직류 750V 이하인 경우에 모터의 회전자 연결용 케이블로 사용할 수 있음.
- 가동 직류 전압은 객차에 사용할 경우 접지 대비 900V 까지 허용됨.
- DN VDE 0165 규격의 위험 지역에 설치 가능함.
- CE = The product is conformed with the EC Low-Voltage Directive 2006/95/EG

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
37001	1 x 1,5	5,7 - 7,1	14,4	58,0	16
37002	1 x 2,5	6,3 - 7,9	24,0	71,0	14
37003	1 x 4	7,2 - 9,0	38,0	100,0	12
37004	1 x 6	7,9 - 9,8	58,0	130,0	10
37005	1 x 10	9,5 - 11,9	96,0	230,0	8
37006	1 x 16	10,8 - 13,4	154,0	290,0	6
37007	1 x 25	12,7 - 15,8	240,0	420,0	4
37008	1 x 35	14,3 - 17,9	336,0	530,0	2
37009	1 x 50	16,5 - 20,6	480,0	750,0	1
37010	1 x 70	18,6 - 23,3	672,0	960,0	2/0
37011	1 x 95	20,8 - 26,0	912,0	1250,0	3/0
37012	1 x 120	22,8 - 28,6	1152,0	1560,0	4/0
37013	1 x 150	25,2 - 31,4	1440,0	1900,0	300 kcmil
37014	1 x 185	27,6 - 34,4	1776,0	2300,0	350 kcmil
37015	1 x 240	30,6 - 38,3	2304,0	2950,0	500 kcmil
37016	1 x 300	33,5 - 41,9	2880,0	3600,0	600 kcmil
37017	1 x 400	37,4 - 46,8	3840,0	4600,0	750 kcmil
37018	1 x 500	41,3 - 52,0	4800,0	6000,0	1000 kcmil

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
37019	2 x 1	7,7 - 10,0	19,0	98,0	17
37020	2 x 1,5	8,5 - 11,0	29,0	135,0	16
37021	2 x 2,5	10,2 - 13,1	48,0	193,0	14
37022	2 x 4	11,8 - 15,1	77,0	280,0	12
37023	2 x 6	13,1 - 16,8	115,0	330,0	10
37024	2 x 10	17,7 - 22,6	192,0	586,0	8
37025	2 x 16	20,2 - 25,7	307,0	810,0	6
37026	2 x 25	24,3 - 30,7	480,0	1160,0	4
37027	3 G 1	8,3 - 10,7	29,0	130,0	17
37028	3 G 1,5	9,2 - 11,9	43,0	165,0	16
37029	3 G 2,5	10,9 - 14,0	72,0	235,0	14
37030	3 G 4	12,7 - 16,2	115,0	320,0	12
37031	3 G 6	14,1 - 18,0	173,0	420,0	10
37032	3 G 10	19,1 - 24,2	288,0	810,0	8
37033	3 G 16	21,8 - 27,6	461,0	1050,0	6
37034	3 G 25	26,1 - 33,0	720,0	1250,0	4
37035	3 G 35	29,3 - 37,1	1008,0	1900,0	2
37036	3 G 50	34,1 - 42,9	1440,0	2600,0	1

Dimensions and specifications may be changed without prior notice.

Continuation ▶

# H07 RN-F rubber-sheathed cable, harmonized type



Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.	Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
37037	3 G 70	38,4 - 48,3	2016,0	3400,0	2/0	37061	5 G 1,5	11,2 - 14,4	72,0	240,0	16
37038	3 G 95	43,3 - 54,0	2736,0	4450,0	3/0	37062	5 G 2,5	13,3 - 17,0	120,0	345,0	14
37039	3 G 120	47,4 - 60,0	3456,0	5180,0	4/0	37063	5 G 4	15,6 - 19,9	192,0	485,0	12
37040	3 G 150	52,0 - 66,0	4320,0	6500,0	300 kcmil	37064	5 G 6	17,5 - 22,2	288,0	650,0	10
37041	3 G 185	57,0 - 72,0	5328,0	7860,0	350 kcmil	37065	5 G 10	22,9 - 29,1	480,0	1200,0	8
37042	3 G 240	65,0 - 82,0	6192,0	10224,0	500 kcmil	37066	5 G 16	26,4 - 33,3	768,0	1550,0	6
37043	3 G 300	72,0 - 90,0	8640,0	12620,0	600 kcmil	37067	5 G 25	32,0 - 40,4	1200,0	2250,0	4
37044	4 G 1	9,2 - 11,9	38,0	150,0	17	37068	5 G 35	36,8 - 45,8	1680,0	2750,0	2
37045	4 G 1,5	10,2 - 13,1	58,0	200,0	16	37091	5 G 50	40,00 - 50,80	2400,0	3950,0	1
37046	4 G 2,5	12,1 - 15,5	96,0	290,0	14	37092	7 G 1,5	14,50 - 17,50	101,0	375,0	16
37047	4 G 4	14,0 - 17,9	154,0	395,0	12	37079	7 G 2,5	16,5 - 20,0	168,0	520,0	14
37048	4 G 6	15,7 - 20,0	230,0	540,0	10	37093	12 G 1,5	17,60 - 22,40	175,0	460,0	16
37049	4 G 10	20,9 - 26,5	384,0	950,0	8	37096	12 G 2,5	20,60 - 26,20	288,0	760,0	14
37050	4 G 16	23,8 - 30,1	614,0	1260,0	6	37097	18 G 2,5	24,40 - 30,90	432,0	850,0	14
37051	4 G 25	28,9 - 36,6	960,0	1860,0	4	37094	19 G 1,5	20,70 - 26,30	274,0	810,0	16
37052	4 G 35	32,5 - 41,1	1344,0	2380,0	2	37098	19 G 2,5	25,50 - 31,00	456,0	1075,0	14
37053	4 G 50	37,7 - 47,5	1920,0	3190,0	1	37095	24 G 1,5	24,30 - 30,70	346,0	1015,0	16
37054	4 G 70	42,7 - 54,0	2688,0	4260,0	2/0	37099	24 G 2,5	28,80 - 36,40	576,0	1390,0	14
37055	4 G 95	48,4 - 61,0	3648,0	5600,0	3/0						
37056	4 G 120	53,0 - 66,0	4608,0	6830,0	4/0						
37057	4 G 150	58,0 - 73,0	5760,0	8320,0	300 kcmil						
37058	4 G 185	64,0 - 80,0	7104,0	9800,0	350 kcmil						
37059	4 G 240	72,0 - 91,0	9216,0	12100,0	500 kcmil						
37060	4 G 300	80,0 - 101,0	11520,0	15200,0	600 kcmil						

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## Current ratings for H07 RN F for current supply in industrial application

Operating temperature at conductor 60°C; Ambient temperature 30°C (Air)

Number of cores	1-core		2-cores	3-cores	3-cores	4-cores	5-cores
	2 cores loaded	3 cores loaded	2 cores loaded	2 cores loaded	3 cores loaded	3 cores loaded	3 cores loaded
Cross-section, mm <sup>2</sup>	Current ratings in Ampere (A)						
4	34	30	34	35	29	30	30
6	43	38	43	44	36	37	38
10	60	53	60	62	51	52	54
16	79	71	79	82	67	69	71
25	104	94	105	109	89	92	94
35	129	117	-	135	110	114	-
50	162	148	-	169	138	143	-
70	202	185	-	211	172	178	-
95	240	222	-	250	204	210	-
120	280	260	-	292	238	246	-
150	321	300	-	335	273	282	-
185	363	341	-	378	309	319	-
240	433	407	-	447	365	377	-
300	497	468	-	509	415	430	-
400	586	553	-	-	-	-	-
500	670	634	-	-	-	-	-
630	784	742	-	-	-	-	-

### Note

For the method of installation

- Single core cables are bunched (unit-form)
- 2 cores cables laid parallel with contact
- 3 cores cables are in triangle-form

### Conversion factors for deviating ambient temperature

Ambient temperature at air °C	30	35	40	45	50	55
Factor	1,0	0,91	0,82	0,71	0,58	0,41