TITANEX H07RN-F

Construction

1. Copper conductor fine wire stranded, bare to DIN VDE 0295 cl.5, BS 6360 cl.5, IEC 60228 cl.5 and HD 383
2. Special cross-linked elastomer core insulation EI4 to DIN VDE 0282 part 1
   Insulation thickness to DIN VDE 0282 part 4
3. Core identification to DIN VDE 0293-308 and HD 186
   Core colours up to 5 cores one-coloured
   6 and more cores, black with numbering
   3 and above, with green-yellow earth core
   2 cores without green-yellow earth core
   Cores stranded in layers with optimal lay-lenght
4. Outer jacket croos-linked elastomer woth high mechanical properties: EM2
   Sheath thickness to DIN VDE 0282 part 2

Applications

Heavy duty rubber-sheathed flexible cables are suited for use for mechanical stress in dry, damp and wet areas as well as in open air and in agriculture plans. They are used for equipment in industry Works such as heating plates, hand lamps, boilers, electrical tools, such as drills, circular saws and homework tools as well as for transportable motors or machines at site.
These cables are also suitable for fixed installation on plaster, in tempory buildings and residential barracks. They are suitable for direct laying on components and mechnical parts of machines, for example lifts and cranes.
They can be used in case of protected and fixed installation in tubes or in equipment as well as rotor connecting cable of motors with a working voltage up to 1000V alternating voltage or a direct voltage up to 750V against ground. The operating direct voltage is permitted up to 900V against ground when they are used in arail-coaches.
Installation in hazardous areas according to DIN VDE 0165 is allowed.

Technical data

- Special elastromer sheathed cable H07RN-F to DIN VDE part 4, HD 22-4, IEC 60245-4

-Temperature range
- Static use: -60°C to + 80°C
- Dynamic: -25°C to + 60°C

- Nominal voltage
- U0/U 450/750V
  in case of protected and fixed installation U_o/U 600/1000V and for motor supplies

- Test voltage
2500V

- Minimum bending radius
Fixed: 3 x cable Ø
Dynamic: 6 x cable Ø

Characteristics

***Resistant to**
Ozone, weather
Oil resistance according to EN 60811-2-1
***Test of behaviour compared to environmental influences**
Test acoording to DIN VDE 0482 part 265-2-1 / EN 50265-2-1 / IEC 60332-1
(equivalent DIN VDE 0472 part 408 testmethod B)
Ozone resistant of the insulation to DIN VDE 0472 part 805, testmethod A or part 805 A1, testmethod C
*The core identification of a single core jacketed, of an insulated wire is black. For application as a protective core, the ends are to be identified with freen-yellow and the middle conductor with light bleu.

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Part number	Dimen-sion n x mm ²	Outer Ø min- max	Cop. weight kg/km	Weigh t kg/ km	Max current A
20010112	1 x 16	10,3 - 13,4	153,6	256	102
20010113	1 x 25	12,7 - 15,8	240,0	369	136
20010114	1 x 35	14,3 - 17,9	336,0	482	168
20010115	1 x 50	16,5 - 20,6	480,0	662	203
20010116	1 x 70	18,6 - 23,3	672,0	895	254
20010117	1 x 95	20,8 - 26,0	912,0	1164	315
20010118	1 x 120	22,8 - 28,6	1152,0	1430	363
20010119	1 x 150	25,2 - 31,4	1440,0	1739	416
20010120	1 x 185	27,6 - 34,4	1776,0	2160	475
20010121	1 x 240	30,6 - 38,3	2304,0	2732	559
20010206	2 x 1	7,7 - 10,0	19,2	99	18
20010207	2 x 1,5	8,5 - 11,0	28,8	111	23
20010208	2 x 2,5	10,2 - 13,1	48,0	161	32
20010209	2 x 4	11,8 - 15,1	76,8	238	43
20010210	2 x 6	13,1 - 16,8	115,2	279	56
20010211	2 x 10	17,7 - 22,6	192,0	538	77
20010306	3 x 1	8,3 - 10,7	28,8	117	18
20010307	3 x 1,5	9,2 - 11,9	43,2	134	23
20010308	3 x 2,5	10,9 - 14,0	72,0	195	32
20010309	3 x 4	12,7 - 16,2	115,2	290	43
20010310	3 x 6	14,1 - 18,0	172,8	346	56
20010311	3 x 10	19,1 - 24,2	288,0	663	77
20010312	3 x 16	21,8 - 27,6	460,8	924	102
20010313	3 x 25	26,1 - 33,0	720,0	1345	136
20010314	3 x 35	29,3 - 37,1	1008,0	1760	168
20010315	3 x 50	34,1 - 42,9	1440,0	2392	203
20010316	3 x 70	38,4 - 48,3	2016,0	3107	239
20010406	4 x 1	9,2 - 11,9	38,4	144	16
20010407	4 x 1,5	10,2 - 13,1	57,6	165	21
20010408	4 x 2,5	12,1 - 15,5	96,0	245	29
20010409	4 x 4	14,0 - 17,9	153,6	357	38
20010410	4 x 6	15,7 - 20,0	230,4	443	50
20010411	4 x 10	20,9 - 26,5	384,0	818	68
20010412	4 x 16	23,8 - 30,1	614,4	1150	92
20010413	4 x 25	28,9 - 36,6	960,0	1700	122
20010414	4 x 35	32,5 - 41,1	1344,0	2175	150
20010415	4 x 50	37,7 - 47,5	1920,0	3030	182
20010416	4 x 70	42,7 - 54,0	2688,0	3995	232
20010417	4 x 95	48,4 - 61,0	3648,0	5365	281
20010418	4 x 120	53,0 - 66,0	4608,0	6500	325

Part number	Dimen-sion n x mm ²	Outer Ø min- max	Cop. weight kg/km	Weigh t kg/ km	Max current A
20010507	5 x 1,5	11,2 - 14,2	72,0	238	21
20010508	5 x 2,5	13,3 - 17,0	120,0	297	29
20010509	5 x 4	15,6 - 19,9	192,0	453	38
20010510	5 x 6	17,5 - 22,2	288,0	557	50
20010511	5 x 10	22,9 - 29,1	480,0	1001	68
20010512	5 x 16	26,4 - 33,3	768,0	1430	92
20010513	5 x 25	32,0 - 40,4	1200,0	2096	122
20010514	5 x 35	36,8 - 45,8	1680,0	2600	-
20010515	5 x 50	ca 44,5	2400,0	3680	-
20010707	7 x 1,5	ca 14,5	100,8	370	15
20010708	7 x 2,5	ca 18,0	168,0	515	20,5
20011207	12 x 1,5	ca 18,3	172,8	450	11
20011208	12 x 2,5	ca 19,0	288,0	750	15
20011907	19 x 1,5	ca 23,5	273,6	795	8,5
20011908	19 x 2,5	ca 27,0	456,0	1060	12

NOTE
Other sizes on request.
Indicated maximum allowable current in steady state mode.

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