TITANEX 90°C H07 RN-F

Flexible rubber cable

RoHS

TITANEX®

BUREAU VERITAS

Industrial flexible cable, insulation and outer sheath in elastomer.
Oil resistant, flame retardant according to IEC/EN 60332-1-2 standard. H07RN-F

Application:

The TITANEX® flexible rubber cable range offers exceptional performances and is designed to release you from all your constraints. Robust yet flexible, TITANEX® is easy to use and withstands the toughest of conditions, such as hard-wearing situations, extreme temperatures and most chemicals. For more than 50 years the TITANEX® cable range properties have been recognized as the best choice for all mobile and fixed installations in industrial environments such as construction sites, cranes, machines tools, factories, generators etc.
TITANEX® is also suitable for public environments and temporary events such as festivals or sports competitions, where the cable is often laid directly on the ground with no protection.
The cable may be rated 0,6/1 kV where the installation has built-in protection and for motors in lifting appliances - machine tools - etc.

Installation:

This cable can be installed in open air or be buried but with extra mechanical protection.

Structure:

Conductor	Copper conductor, bare, flexible (class 5) according to DIN VDE 0295 and IEC 60228 cl. 5, HD 383
Cores	Cross-linked elastomer insulation
Outer sheath	Cross-linked elastomer with high mechanical properties

Technical Data:

Nominal Voltage	450V/750V
Test Voltage	2500V
Conductor resistance	According to DIN VDE 0295 cl. 5
Conductor temperature	fixed and protected installation: 90°C mobile installation: 60°C
Short-circuit temperature	max.+200°C on the conductor
Operating temperature	-25°C to +55°C
Min.bending radius	
Dynamic use	6 to 8x cable outer diameter
Static use	3x outer cable diameter if the outer diam is < or =12mm 4x outer cable diameter if the outer diam is >12mm.
Permanent tensile loading	(total copper cross section in mm²)max. 15N/mm²
Silicon free	yes

Tests According to DIN VDE 0472 and IEC:

Flammability	Test method B according to VDE 0472 part 804 and IEC 332-1
Oil resistance	Test method A acc. to VDE 0472 part 803 or test method C acc. to part 805A1
Ozone resistance	Test method A according to VDE 0472 part 805

Lead free
Yes

Cable flexibility
Flexible

Chemical resistance
Accidental

Water proof
Good

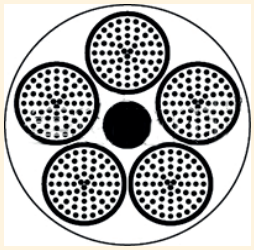
RoHS compliant
Yes

Oil resistance
Yes

Max.coduc-tor temp.in service
90 °C

Operating temp.
-25..55°C

Cross Section



International EN 50525-2-21
HD 22.4; HD 516;
IEC 60245-4 type 66

National NF C 32-102-4

Special Attributes

Coating colour
black

Standards
International EN 50525-2-21;
HD 22.4; HD 516;
IEC 60245-4 type 66
National NF C 32-102-4

Bureau Veritas Marine & Offshore Approval: 18999/C0 BV

IEC 60092-350 (2014)
IEC 60092-353 (2016)
IEC 60092-360 (2014)
IEC 60811 (2012)

Conductor marking:

number of conductors	with green-yellow conductor	with green-yellow conductor
1		black
2		brown + blue
3*	green-yellow + brown + blue	brown + black + grey
3**		blue + brown + black
4	green-yellow + brown + black + grey	blue + brown + black + grey
5	green-yellow + blue + brown + black + grey	blue + brown + black + grey + black
> 5	white printed numbers + 1 green-yellow	white printed numbers

* for cables without green/yellow, with one cross section >4mm²
** for the cables without green/yellow, with a cross section of 1,5mm² & 2,5mm²

Item H07 RN-F	max.current (A) 90°C	current rating open air(A)	Voltage drop (V/A.km)	Cu weight	Outer diameter min.(mm)	Outer diameter max.(mm)	weight (kg/km)
1x1,5	24			14,4		7,1	50
1x2,5	33			24,0		7,9	66
1x4	45			38,0		9,0	94
1x6	58	58	5,90	58,0	7,9 -	9,8	109
1x10	80	80	3,40	96,0	9,5 -	11,9	182
1x16	107	107	2,20	154,0	10,8 -	13,4	256
1x25	138	138	1,40	240,0	12,7 -	15,8	369
1x35	169	169	1,04	336,0	14,3 -	17,9	482
1x50	207	207	0,75	480,0	16,5 -	20,6	662
1x70	268	268	0,56	672,0	18,6 -	23,3	895
1x95	328	328	0,44	912,0	20,8 -	26,0	1144
1x120	382	382	0,36	1152,0	22,8 -	28,6	1430
1x150	441	441	0,31	1440,0	25,2 -	31,4	1740
1x185	506	506	0,28	1776,0	27,6 -	34,4	2160
1x240	599	599	0,23	2304,0	30,6 -	38,3	2730
1x300	693	693	0,20	2880,0	33,5 -	41,9	3480
2x1							
2x1,5	26	26	27	29,0	8,5 -	11,0	111
2x2,5	36	36	16,2	48,0	10,2 -	13,2	161
2x4	49	49	10,1	77,0	11,8 -	15,1	238
2x6	63	63	6,7	115,0	13,1 -	16,8	279
2x10	86	86	3,8	192,0	17,7 -	22,6	538
2x16	115	115	2,5	308,0	20,2 -	25,7	744
3G1		20	39,4	29,0	8,3 -	10,7	117
3G1,5	26	26	27,0	43,0	9,2 -	11,9	134
3G2,5	36	36	16,2	72,0	10,9 -	14,0	195
3G4	49	49	10,1	115,0	12,7 -	16,2	290
3G6	63	63	7,0	173,0	14,1 -	18,0	346
3G10	86	86	4,0	288,0	19,1 -	24,2	663
3G16	115	115	2,5	461,0	21,8 -	27,6	924
3G25	149			720,0			
3G35	185	185	1,21	1008,0	29,3 -	37,1	1760
3G50	225	225	0,87	1440,0	34,1 -	42,9	2390
3G70	289	289	0,64	2016,0	38,4 -	48,3	3110
3G95	352	352	0,5	2736,0	43,3 -	54,0	4170
3G120	410			3456,0			5078

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4G1		18	34,08	38,0	9,6 -	12,0	144
4G1,5	23	23	23,3	58,0	10,2 -	13,1	165
4G2,5	31	31	14,0	96,0	12,5 -	15,5	245
4G4	42	42	8,71	154,0	14,0 -	18,0	357
4G6	54	54	5,84	230,0	15,7 -	20,0	443
4G10	75	75	3,42	384,0	20,8 -	26,5	818
4G16	100	100	2,20	614,0	23,8 -	30,1	1150
4G25	127	127	1,44	960,0	28,9 -	36,6	1700
4G35	158	158	1,04	1344,0	32,5 -	41,1	2180
4G50	192	192	0,75	1920,0	37,7 -	47,5	3030
4G70	246	246	0,56	2688,0	42,7 -	54,0	3990
4G95	298	298	0,44	3648,0	48,4 -	61,0	5360
4G120	346	346	0,36	4608,0	53,0 -	66,0	6500
4G150	395	395	0,31	5760,0	58,0 -	73,0	7990
4G185	450			7104,0			9912
5G1,5	23	23	23,6	72,0	11,2 -	14,4	238
5G2,5	31	31	14,0	120,0	13,3 -	17,0	297
5G4	42	42	8,72	192,0	15,6 -	19,9	453
5G6	54	54	5,84	288,0	17,5 -	22,2	557
5G10	75	75	3,43	480,0	22,9 -	29,1	1001
5G16	100	100	2,20	768,0	26,4 -	33,3	1430
5G25	127	127	1,44	1200,0	32,0 -	40,4	2096
5G35	158	158	1,04	1680,0	35,6 -	45,1	2690
5G50	192	192	1,04	2400,0	41,8 -	53,0	3840
5G70	246	246	0,56	3360,0	47,5 -	60,0	4996
7G1,5		17	23,3	101,0	14,7 -	18,7	349
7G2,5		21	13,9	168,0	17,1 -	21,8	487
12G1,5		12	23,3	173,0	17,6 -	22,1	510
12G2,5		16	13,9	288,0	20,6 -	26,2	702
14G1,5				202,0			600
18G1,5		10	20,7	259,0	20,7 -	26,3	730
18G2,5		14	13,9	432,0	24,4 -	30,9	1018
19G1,5				274,0			819
19G2,5				456,0			1170
24G1,5				346,0			1005
24G2,5				576,0			1380
27G1,5				385,0			1077
27G2,5				638,0			1521
36G1,5				518,0			1260
36G2,5				864,0			1862
37G1,5				533,0			1370